

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P362183

Luminaire Tested: NVN-SA1D-750-U-SLL

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P362183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA1D-750-U-SLL
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7034 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

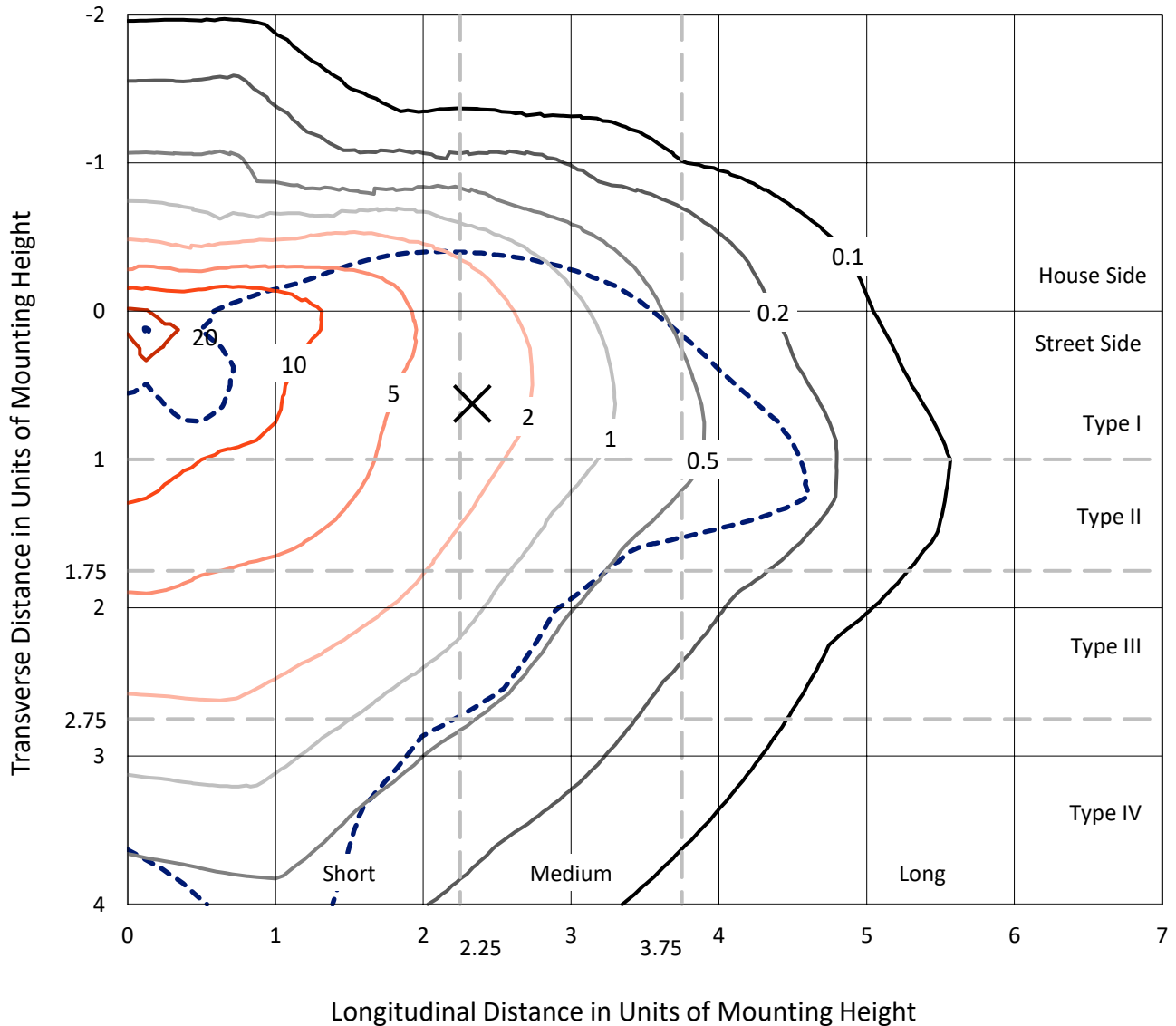
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

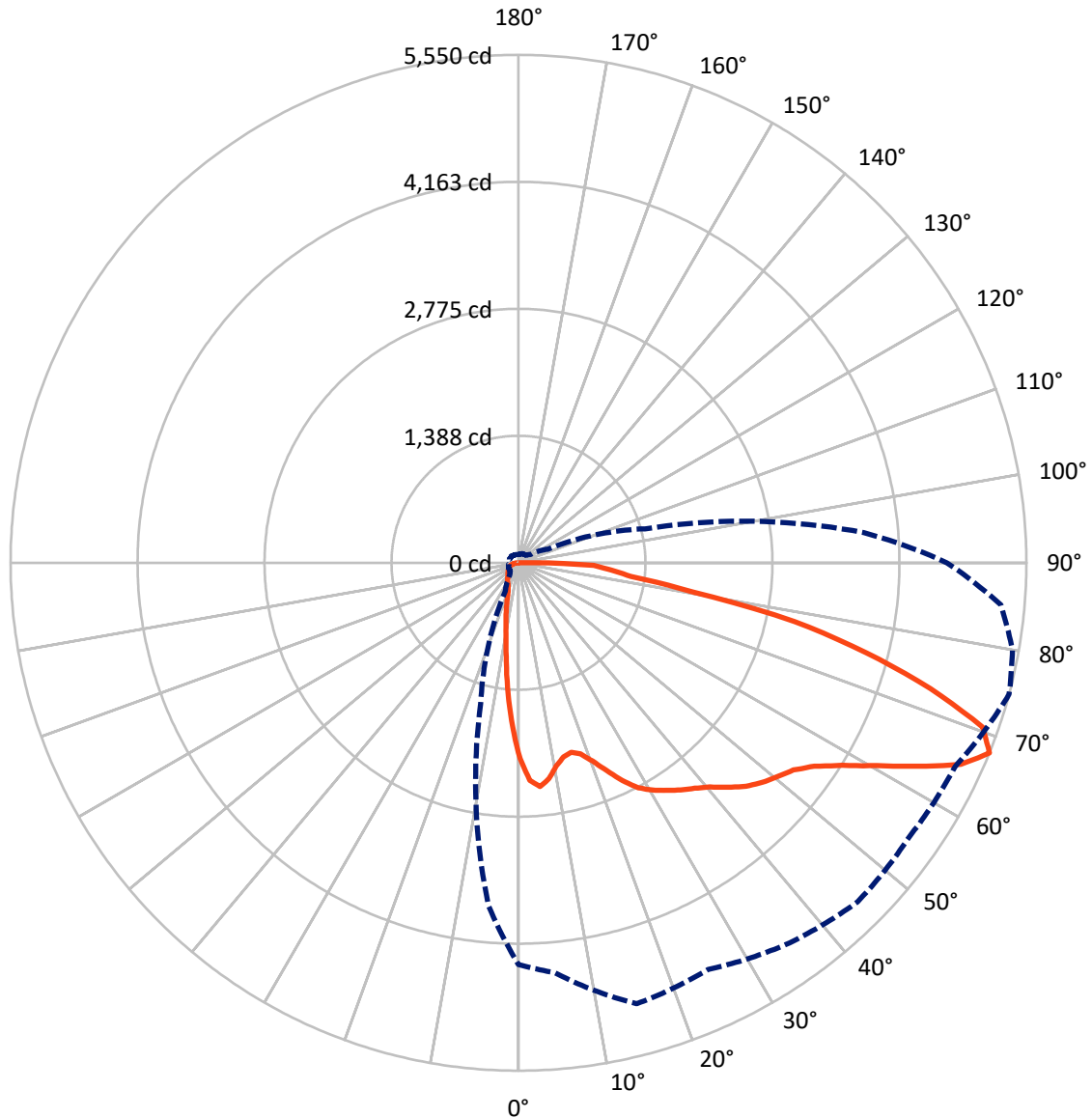
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1238.9 | 0.0 | 1238.9 |
| | % Fixture | 17.6 | 0.0 | 17.6 |
| Street Side | Lumens | 5795.1 | 0.0 | 5795.1 |
| | % Fixture | 82.4 | 0.0 | 82.4 |
| Total | Lumens | 7034.0 | 0.0 | 7034.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.4 | 2.4 |
| 10°-20° | 343.6 | 4.9 |
| 20°-30° | 488.6 | 6.9 |
| 30°-40° | 704.1 | 10.0 |
| 40°-50° | 992.3 | 14.1 |
| 50°-60° | 1379.5 | 19.6 |
| 60°-70° | 1668.2 | 23.7 |
| 70°-80° | 1025.4 | 14.6 |
| 80°-90° | 266.8 | 3.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7034.0 | 100.0 |
| 0°-180° | 7034.0 | 100.0 |

Coefficient of Utilization

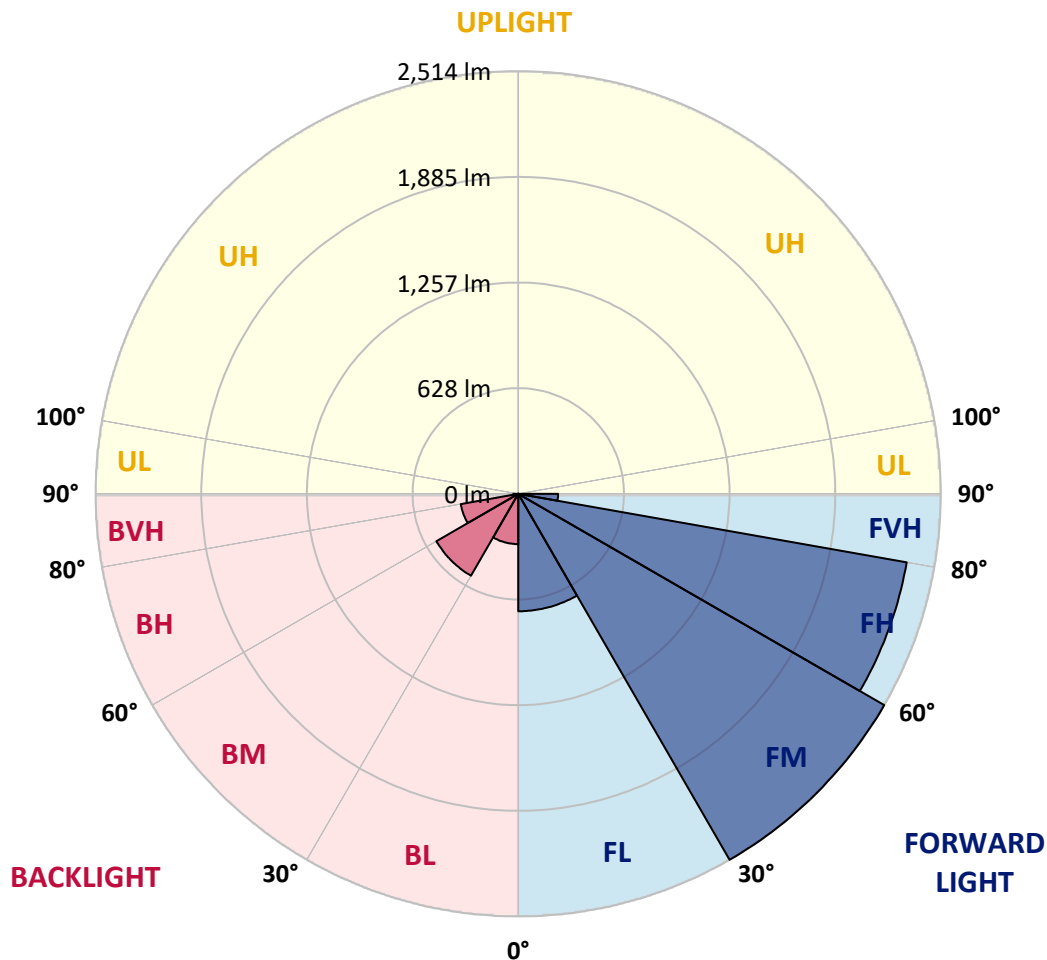


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 CATALOG NUMBER: NVN-SA1D-750-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 698.4 | 9.9 | | | |
| FM (30°-60°) | 2513.6 | 35.7 | | | |
| FH (60°-80°) | 2346.3 | 33.4 | | | G2/5000 |
| FVH (80°-90°) | 236.9 | 3.4 | | | G3/500 |
| BL (0°-30°) | 299.2 | 4.3 | B1/500 | | |
| BM (30°-60°) | 562.4 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 347.3 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.0 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Medium





REPORT NUMBER: P362183

CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 2284.1 | 2314.2 | 2335.0 | 2355.5 | 2371.6 | 2387.3 | 2410.4 | 2433.4 | 2437.9 | 2442.2 | 2433.2 |
| 5° | 2270.6 | 2344.0 | 2406.4 | 2468.6 | 2526.3 | 2583.9 | 2618.5 | 2653.1 | 2660.1 | 2667.1 | 2645.5 |
| 7.5° | 2125.2 | 2233.5 | 2341.8 | 2450.0 | 2549.3 | 2648.6 | 2709.0 | 2769.2 | 2783.0 | 2796.5 | 2761.1 |
| 10° | 1959.9 | 2085.9 | 2218.9 | 2351.9 | 2482.7 | 2613.4 | 2700.9 | 2788.4 | 2805.8 | 2823.2 | 2779.1 |
| 12.5° | 1834.2 | 1971.7 | 2113.7 | 2255.7 | 2393.8 | 2531.6 | 2622.1 | 2712.7 | 2734.4 | 2756.0 | 2724.0 |
| 15° | 1785.8 | 1936.5 | 2070.1 | 2203.7 | 2324.1 | 2444.1 | 2518.4 | 2592.3 | 2601.3 | 2610.1 | 2605.0 |
| 17.5° | 1834.2 | 2000.4 | 2121.3 | 2241.9 | 2307.5 | 2372.7 | 2402.5 | 2432.0 | 2441.9 | 2451.4 | 2464.4 |
| 20° | 1975.6 | 2155.0 | 2240.2 | 2325.2 | 2322.4 | 2319.3 | 2304.9 | 2290.3 | 2287.8 | 2285.2 | 2321.8 |
| 22.5° | 2177.5 | 2385.9 | 2419.9 | 2453.7 | 2374.7 | 2295.6 | 2247.6 | 2199.2 | 2189.6 | 2179.8 | 2218.6 |
| 25° | 2414.6 | 2636.5 | 2630.3 | 2623.8 | 2473.4 | 2322.6 | 2231.0 | 2139.3 | 2128.6 | 2117.9 | 2151.1 |
| 27.5° | 2672.5 | 2884.5 | 2844.0 | 2803.5 | 2599.1 | 2394.6 | 2261.6 | 2128.6 | 2117.9 | 2107.2 | 2136.5 |
| 30° | 2874.1 | 3066.5 | 3001.5 | 2936.6 | 2705.1 | 2473.7 | 2315.6 | 2157.6 | 2140.1 | 2122.4 | 2158.4 |
| 32.5° | 3044.8 | 3208.5 | 3121.3 | 3034.1 | 2791.2 | 2548.2 | 2377.2 | 2206.2 | 2178.9 | 2151.7 | 2199.7 |
| 35° | 3222.6 | 3350.2 | 3227.6 | 3104.7 | 2867.9 | 2630.9 | 2450.0 | 2268.9 | 2235.5 | 2202.0 | 2268.1 |
| 37.5° | 3422.5 | 3528.5 | 3352.5 | 3176.2 | 2954.3 | 2732.4 | 2559.2 | 2385.6 | 2351.3 | 2317.0 | 2401.4 |
| 40° | 3633.7 | 3722.0 | 3487.2 | 3252.4 | 3048.8 | 2845.2 | 2710.2 | 2574.9 | 2542.3 | 2509.4 | 2611.7 |
| 42.5° | 3818.5 | 3882.9 | 3612.6 | 3342.4 | 3162.7 | 2982.7 | 2887.6 | 2792.3 | 2792.0 | 2791.4 | 2895.2 |
| 45° | 3957.7 | 4013.7 | 3717.2 | 3420.6 | 3273.8 | 3126.7 | 3077.2 | 3027.7 | 3067.3 | 3107.0 | 3200.9 |
| 47.5° | 4073.3 | 4111.2 | 3805.0 | 3498.4 | 3400.9 | 3303.3 | 3310.6 | 3317.9 | 3398.6 | 3479.3 | 3539.8 |
| 50° | 4205.5 | 4174.8 | 3884.6 | 3594.1 | 3564.0 | 3533.9 | 3599.7 | 3665.2 | 3758.0 | 3850.5 | 3891.6 |
| 52.5° | 4348.6 | 4267.3 | 3992.6 | 3717.5 | 3751.3 | 3785.0 | 3918.9 | 4052.7 | 4146.4 | 4240.0 | 4255.5 |
| 55° | 4605.9 | 4481.3 | 4191.1 | 3900.6 | 3965.6 | 4030.2 | 4226.8 | 4423.1 | 4496.2 | 4569.4 | 4575.0 |
| 57.5° | 4895.9 | 4785.3 | 4469.2 | 4153.1 | 4222.9 | 4292.6 | 4519.6 | 4746.2 | 4825.3 | 4904.0 | 4893.0 |
| 60° | 5007.5 | 5012.9 | 4733.3 | 4453.5 | 4523.8 | 4594.1 | 4815.1 | 5036.2 | 5127.0 | 5217.6 | 5193.4 |
| 62.5° | 4895.0 | 5026.9 | 4877.6 | 4728.0 | 4791.8 | 4855.4 | 5071.9 | 5288.5 | 5381.5 | 5474.6 | 5432.4 |
| 65° | 4672.6 | 4803.3 | 4870.3 | 4937.2 | 4958.3 | 4979.4 | 5181.6 | 5383.5 | 5454.9 | 5526.1 | 5504.7 |
| 67.5° | 4389.7 | 4495.4 | 4742.3 | 4988.9 | 4946.5 | 4904.0 | 4998.8 | 5093.6 | 5167.0 | 5240.4 | 5228.3 |
| 70° | 4062.0 | 4188.0 | 4517.3 | 4846.6 | 4638.0 | 4429.0 | 4389.9 | 4350.8 | 4430.2 | 4509.2 | 4460.2 |
| 72.5° | 3474.5 | 3664.7 | 4015.9 | 4366.9 | 3982.4 | 3598.0 | 3464.4 | 3330.8 | 3431.2 | 3531.6 | 3453.7 |
| 75° | 2624.4 | 2876.7 | 3264.8 | 3652.6 | 3193.9 | 2735.2 | 2556.9 | 2378.6 | 2464.9 | 2551.3 | 2497.8 |
| 77.5° | 1825.2 | 2141.5 | 2523.7 | 2905.9 | 2439.6 | 1973.1 | 1840.6 | 1707.9 | 1733.8 | 1759.3 | 1750.3 |
| 80° | 1244.4 | 1452.5 | 1719.1 | 1985.5 | 1675.0 | 1364.5 | 1374.9 | 1385.0 | 1372.9 | 1360.6 | 1378.6 |
| 82.5° | 780.4 | 926.9 | 1132.8 | 1338.4 | 1173.6 | 1008.8 | 1103.2 | 1197.7 | 1151.3 | 1104.7 | 1122.1 |
| 85° | 439.6 | 529.0 | 730.3 | 931.4 | 868.1 | 804.6 | 860.0 | 915.1 | 843.1 | 771.1 | 802.9 |
| 87.5° | 83.8 | 139.5 | 404.1 | 668.5 | 606.9 | 545.3 | 473.9 | 402.4 | 307.1 | 211.8 | 309.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183

CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 2424.2 | 2419.4 | 2414.6 | 2397.5 | 2380.0 | 2354.1 | 2332.8 | 2295.6 | 2275.4 | 2244.7 | 2214.1 |
| 5° | 2623.6 | 2593.2 | 2562.8 | 2510.5 | 2457.9 | 2399.4 | 2332.2 | 2257.7 | 2201.4 | 2128.3 | 2055.2 |
| 7.5° | 2725.6 | 2654.8 | 2583.6 | 2483.2 | 2382.5 | 2292.0 | 2185.7 | 2086.7 | 2002.3 | 1907.3 | 1812.2 |
| 10° | 2734.9 | 2628.6 | 2522.0 | 2391.5 | 2260.8 | 2150.8 | 2028.5 | 1918.5 | 1817.3 | 1708.2 | 1598.8 |
| 12.5° | 2691.6 | 2578.6 | 2465.2 | 2321.5 | 2177.5 | 2052.7 | 1921.1 | 1797.9 | 1685.7 | 1565.6 | 1445.2 |
| 15° | 2599.9 | 2509.7 | 2419.1 | 2284.4 | 2149.7 | 2023.7 | 1896.0 | 1750.1 | 1623.2 | 1500.3 | 1377.2 |
| 17.5° | 2477.0 | 2434.3 | 2391.3 | 2294.0 | 2196.4 | 2087.3 | 1963.5 | 1792.3 | 1643.8 | 1510.2 | 1376.6 |
| 20° | 2358.1 | 2373.8 | 2389.3 | 2350.5 | 2311.7 | 2224.2 | 2116.2 | 1923.9 | 1734.3 | 1559.7 | 1384.8 |
| 22.5° | 2257.1 | 2332.8 | 2408.1 | 2438.2 | 2468.0 | 2415.4 | 2331.1 | 2108.6 | 1857.8 | 1629.7 | 1401.6 |
| 25° | 2184.0 | 2309.4 | 2434.9 | 2535.0 | 2634.8 | 2611.5 | 2546.5 | 2333.0 | 2021.5 | 1730.7 | 1439.6 |
| 27.5° | 2165.7 | 2319.6 | 2473.4 | 2628.6 | 2783.6 | 2805.2 | 2787.2 | 2569.6 | 2216.6 | 1856.1 | 1495.3 |
| 30° | 2194.4 | 2350.2 | 2505.7 | 2694.7 | 2883.4 | 2969.7 | 2993.9 | 2766.7 | 2439.6 | 2002.3 | 1564.7 |
| 32.5° | 2247.8 | 2400.5 | 2553.2 | 2759.1 | 2964.7 | 3095.2 | 3172.2 | 2947.0 | 2595.2 | 2112.6 | 1629.7 |
| 35° | 2334.2 | 2477.0 | 2619.9 | 2834.2 | 3048.5 | 3217.2 | 3357.8 | 3133.1 | 2733.2 | 2189.6 | 1645.7 |
| 37.5° | 2485.5 | 2608.4 | 2731.3 | 2929.2 | 3127.0 | 3345.7 | 3556.9 | 3338.2 | 2882.6 | 2263.9 | 1644.9 |
| 40° | 2714.1 | 2801.0 | 2887.6 | 3055.0 | 3222.0 | 3497.3 | 3782.5 | 3566.8 | 3047.6 | 2344.3 | 1641.0 |
| 42.5° | 2999.0 | 3043.7 | 3088.1 | 3220.6 | 3353.1 | 3655.7 | 3987.2 | 3790.4 | 3205.1 | 2419.1 | 1633.1 |
| 45° | 3294.6 | 3306.4 | 3318.2 | 3401.7 | 3485.0 | 3781.1 | 4126.7 | 3958.3 | 3342.7 | 2484.1 | 1625.2 |
| 47.5° | 3600.0 | 3559.5 | 3519.0 | 3552.2 | 3585.3 | 3877.3 | 4226.3 | 4085.6 | 3480.7 | 2556.1 | 1631.1 |
| 50° | 3932.7 | 3819.9 | 3707.1 | 3689.7 | 3672.2 | 3973.4 | 4343.5 | 4247.6 | 3646.7 | 2661.0 | 1675.3 |
| 52.5° | 4270.7 | 4084.8 | 3898.9 | 3830.0 | 3760.8 | 4088.2 | 4499.1 | 4449.3 | 3883.4 | 2823.5 | 1763.3 |
| 55° | 4580.6 | 4344.1 | 4107.6 | 4014.8 | 3922.0 | 4263.7 | 4688.9 | 4745.4 | 4186.9 | 3031.3 | 1875.5 |
| 57.5° | 4881.8 | 4613.8 | 4345.8 | 4259.7 | 4173.7 | 4521.5 | 4929.3 | 5011.2 | 4493.4 | 3230.7 | 1967.7 |
| 60° | 5169.2 | 4904.0 | 4638.5 | 4569.6 | 4500.5 | 4842.1 | 5189.2 | 5129.6 | 4651.5 | 3324.1 | 1996.4 |
| 62.5° | 5390.3 | 5179.3 | 4968.4 | 4932.1 | 4895.6 | 5166.4 | 5388.8 | 5083.4 | 4551.1 | 3232.1 | 1913.2 |
| 65° | 5483.3 | 5363.3 | 5242.9 | 5276.9 | 5310.7 | 5411.6 | 5438.6 | 4948.5 | 4235.5 | 2974.5 | 1713.5 |
| 67.5° | 5215.9 | 5240.4 | 5264.8 | 5407.7 | 5550.3 | 5480.8 | 5290.7 | 4682.4 | 3786.4 | 2609.5 | 1432.6 |
| 70° | 4411.0 | 4557.8 | 4704.3 | 5042.4 | 5380.1 | 5226.0 | 4894.5 | 4204.9 | 3245.9 | 2189.1 | 1131.9 |
| 72.5° | 3375.6 | 3540.6 | 3705.4 | 4207.1 | 4708.6 | 4566.5 | 4160.5 | 3453.7 | 2602.5 | 1748.1 | 893.5 |
| 75° | 2444.1 | 2630.6 | 2816.8 | 3370.2 | 3923.7 | 3726.5 | 3112.0 | 2472.8 | 1976.7 | 1334.4 | 691.8 |
| 77.5° | 1741.1 | 1865.9 | 1990.8 | 2537.5 | 3083.9 | 2762.8 | 2071.5 | 1664.0 | 1368.2 | 927.5 | 486.5 |
| 80° | 1396.6 | 1358.3 | 1320.1 | 1624.6 | 1929.2 | 1875.8 | 1370.1 | 1068.7 | 946.9 | 621.5 | 296.1 |
| 82.5° | 1139.2 | 1045.9 | 952.5 | 1095.9 | 1239.4 | 1231.5 | 950.8 | 784.1 | 704.8 | 432.0 | 159.2 |
| 85° | 834.4 | 797.0 | 759.6 | 886.4 | 1013.3 | 905.0 | 644.0 | 498.3 | 549.5 | 318.1 | 86.6 |
| 87.5° | 406.9 | 464.9 | 522.5 | 672.1 | 821.5 | 616.7 | 195.5 | 96.7 | 133.9 | 88.0 | 41.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 2191.3 | 2168.3 | 2142.1 | 2115.9 | 2086.1 | 2056.0 | 2038.3 | 2020.3 | 2000.9 | 1981.5 | 1959.6 |
| 5° | 2006.8 | 1958.5 | 1903.6 | 1848.8 | 1794.5 | 1740.2 | 1711.0 | 1681.7 | 1650.8 | 1619.6 | 1592.6 |
| 7.5° | 1741.9 | 1671.3 | 1595.4 | 1519.2 | 1451.7 | 1383.9 | 1342.0 | 1299.8 | 1261.6 | 1223.1 | 1190.7 |
| 10° | 1508.8 | 1418.8 | 1342.6 | 1266.1 | 1215.2 | 1164.3 | 1125.7 | 1087.2 | 1050.1 | 1012.7 | 977.0 |
| 12.5° | 1355.2 | 1265.2 | 1216.9 | 1168.5 | 1126.3 | 1084.1 | 1039.7 | 995.0 | 944.1 | 892.9 | 855.5 |
| 15° | 1295.3 | 1213.5 | 1159.8 | 1105.8 | 1049.3 | 992.4 | 937.9 | 883.3 | 823.1 | 763.0 | 720.5 |
| 17.5° | 1269.5 | 1162.3 | 1087.2 | 1011.9 | 937.3 | 862.8 | 799.5 | 736.2 | 670.4 | 604.6 | 561.6 |
| 20° | 1242.2 | 1099.6 | 998.9 | 898.0 | 802.3 | 706.7 | 635.0 | 563.3 | 504.5 | 445.7 | 412.8 |
| 22.5° | 1217.4 | 1032.9 | 906.7 | 780.1 | 667.1 | 554.0 | 483.7 | 413.1 | 377.1 | 341.1 | 327.9 |
| 25° | 1207.3 | 974.7 | 819.5 | 664.3 | 545.0 | 425.5 | 375.4 | 325.4 | 311.6 | 297.5 | 290.8 |
| 27.5° | 1209.0 | 922.7 | 746.1 | 569.2 | 461.8 | 354.3 | 320.0 | 285.7 | 277.3 | 268.6 | 264.4 |
| 30° | 1215.5 | 866.2 | 676.9 | 487.6 | 399.1 | 310.5 | 288.3 | 265.8 | 256.8 | 247.8 | 242.4 |
| 32.5° | 1222.8 | 815.6 | 623.5 | 431.1 | 358.8 | 286.3 | 268.0 | 249.4 | 240.7 | 232.0 | 226.7 |
| 35° | 1210.1 | 774.2 | 586.9 | 399.6 | 333.0 | 266.0 | 250.6 | 234.8 | 225.3 | 215.7 | 210.6 |
| 37.5° | 1188.7 | 732.6 | 558.5 | 384.2 | 316.1 | 247.8 | 236.5 | 225.0 | 215.1 | 205.0 | 200.2 |
| 40° | 1169.3 | 697.4 | 537.4 | 377.1 | 306.8 | 236.2 | 226.7 | 217.1 | 207.0 | 196.6 | 191.0 |
| 42.5° | 1153.6 | 673.8 | 516.6 | 359.4 | 298.4 | 237.1 | 223.6 | 209.8 | 200.0 | 190.1 | 183.9 |
| 45° | 1141.8 | 658.3 | 500.3 | 342.3 | 290.5 | 238.8 | 221.6 | 204.5 | 194.6 | 184.5 | 177.2 |
| 47.5° | 1140.7 | 650.2 | 488.8 | 327.3 | 275.6 | 223.6 | 216.5 | 209.5 | 195.2 | 180.5 | 172.1 |
| 50° | 1156.1 | 637.0 | 475.3 | 313.3 | 261.3 | 209.2 | 218.8 | 228.1 | 203.6 | 178.9 | 168.2 |
| 52.5° | 1188.5 | 613.6 | 453.9 | 294.2 | 243.8 | 193.2 | 208.1 | 222.7 | 201.6 | 180.3 | 166.5 |
| 55° | 1227.6 | 579.3 | 421.6 | 263.5 | 220.8 | 177.7 | 191.0 | 203.9 | 190.7 | 177.2 | 160.6 |
| 57.5° | 1252.0 | 536.0 | 380.8 | 225.5 | 194.9 | 164.2 | 171.8 | 179.1 | 173.8 | 168.5 | 151.6 |
| 60° | 1237.4 | 478.4 | 334.9 | 191.2 | 172.1 | 153.0 | 151.6 | 149.9 | 157.8 | 165.6 | 146.2 |
| 62.5° | 1166.0 | 418.7 | 294.4 | 170.1 | 155.8 | 141.2 | 138.1 | 134.7 | 147.6 | 160.3 | 139.8 |
| 65° | 1045.3 | 377.1 | 268.9 | 160.6 | 144.6 | 128.5 | 125.1 | 121.8 | 125.7 | 129.6 | 120.1 |
| 67.5° | 892.0 | 351.5 | 254.2 | 156.9 | 137.5 | 117.8 | 113.9 | 110.0 | 109.1 | 108.3 | 104.9 |
| 70° | 734.0 | 335.8 | 244.7 | 153.5 | 129.9 | 106.0 | 102.4 | 98.7 | 97.6 | 96.2 | 93.6 |
| 72.5° | 613.6 | 333.8 | 243.5 | 153.3 | 123.7 | 94.2 | 90.8 | 87.5 | 86.1 | 84.4 | 82.4 |
| 75° | 502.6 | 313.3 | 231.2 | 149.0 | 115.3 | 81.3 | 78.2 | 75.1 | 74.0 | 72.6 | 70.9 |
| 77.5° | 372.9 | 259.3 | 194.3 | 129.4 | 98.7 | 68.1 | 65.0 | 61.6 | 61.3 | 60.7 | 59.3 |
| 80° | 241.9 | 187.6 | 138.9 | 90.3 | 72.0 | 53.4 | 50.9 | 48.1 | 48.4 | 48.7 | 47.5 |
| 82.5° | 134.4 | 109.4 | 84.9 | 60.5 | 49.2 | 38.0 | 36.8 | 35.4 | 36.3 | 36.8 | 35.4 |
| 85° | 70.9 | 55.1 | 45.6 | 36.0 | 28.4 | 20.8 | 20.8 | 20.5 | 21.7 | 22.8 | 21.7 |
| 87.5° | 30.7 | 19.4 | 16.6 | 13.5 | 7.6 | 1.4 | 1.7 | 1.7 | 2.2 | 2.8 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 1937.4 | 1916.8 | 1896.0 | 1873.2 | 1877.5 | 1860.0 | 1842.6 | 1831.6 | 1820.7 | 1817.3 | 1813.9 |
| 5° | 1565.6 | 1542.2 | 1518.6 | 1497.5 | 1515.8 | 1503.4 | 1491.1 | 1489.4 | 1487.4 | 1487.4 | 1487.1 |
| 7.5° | 1158.4 | 1133.3 | 1108.0 | 1090.6 | 1108.6 | 1106.3 | 1104.1 | 1116.2 | 1128.3 | 1138.1 | 1147.7 |
| 10° | 941.3 | 910.9 | 880.2 | 854.4 | 849.9 | 836.9 | 823.7 | 826.5 | 829.1 | 839.7 | 850.4 |
| 12.5° | 818.1 | 781.8 | 745.5 | 715.2 | 701.4 | 680.0 | 658.3 | 644.9 | 631.4 | 632.8 | 633.9 |
| 15° | 677.8 | 642.6 | 607.2 | 581.0 | 572.3 | 555.7 | 539.1 | 522.2 | 505.1 | 498.1 | 490.7 |
| 17.5° | 518.3 | 490.2 | 461.8 | 444.3 | 444.3 | 439.6 | 434.8 | 426.3 | 417.6 | 410.6 | 403.3 |
| 20° | 379.9 | 365.0 | 349.8 | 342.5 | 344.8 | 345.1 | 345.1 | 349.3 | 353.5 | 351.3 | 349.0 |
| 22.5° | 314.4 | 309.1 | 303.7 | 300.6 | 301.8 | 302.0 | 302.3 | 306.3 | 309.9 | 312.7 | 315.3 |
| 25° | 283.8 | 280.4 | 277.0 | 275.9 | 278.4 | 278.7 | 278.7 | 281.2 | 283.8 | 286.6 | 289.4 |
| 27.5° | 259.9 | 258.4 | 257.0 | 255.1 | 257.6 | 257.6 | 257.3 | 260.1 | 262.7 | 265.2 | 267.4 |
| 30° | 237.1 | 237.6 | 237.9 | 237.4 | 239.0 | 240.2 | 241.0 | 243.0 | 244.7 | 246.6 | 248.6 |
| 32.5° | 221.0 | 220.2 | 219.4 | 218.8 | 222.4 | 224.4 | 226.4 | 228.4 | 230.0 | 230.9 | 231.7 |
| 35° | 205.6 | 203.6 | 201.6 | 200.2 | 203.6 | 206.1 | 208.7 | 212.3 | 215.7 | 216.3 | 216.8 |
| 37.5° | 195.2 | 192.6 | 190.1 | 188.4 | 189.8 | 191.0 | 192.1 | 196.0 | 200.0 | 202.2 | 204.2 |
| 40° | 185.3 | 182.8 | 180.3 | 178.9 | 179.7 | 180.0 | 180.3 | 182.2 | 183.9 | 188.1 | 192.1 |
| 42.5° | 177.5 | 174.4 | 171.3 | 169.6 | 170.1 | 170.7 | 171.0 | 170.7 | 170.4 | 174.4 | 178.3 |
| 45° | 169.6 | 166.2 | 162.8 | 160.9 | 161.1 | 161.1 | 161.1 | 160.6 | 159.7 | 161.7 | 163.7 |
| 47.5° | 163.4 | 159.5 | 155.5 | 153.5 | 153.0 | 152.4 | 151.9 | 151.6 | 151.0 | 152.4 | 153.5 |
| 50° | 157.2 | 153.0 | 148.5 | 146.2 | 144.8 | 144.3 | 143.7 | 143.4 | 142.9 | 144.3 | 145.4 |
| 52.5° | 152.4 | 147.4 | 142.3 | 138.6 | 137.2 | 136.4 | 135.6 | 135.8 | 135.8 | 136.4 | 136.7 |
| 55° | 144.0 | 139.5 | 134.7 | 132.2 | 129.6 | 129.1 | 128.5 | 129.4 | 129.9 | 129.9 | 129.9 |
| 57.5° | 134.7 | 130.5 | 126.0 | 124.3 | 122.1 | 122.1 | 121.8 | 122.9 | 123.7 | 124.3 | 124.9 |
| 60° | 126.6 | 121.8 | 117.0 | 115.6 | 114.7 | 114.5 | 114.2 | 115.6 | 116.7 | 117.8 | 119.0 |
| 62.5° | 119.0 | 113.9 | 108.8 | 107.1 | 106.9 | 107.1 | 107.1 | 108.6 | 109.7 | 110.8 | 111.9 |
| 65° | 110.5 | 105.5 | 100.1 | 98.4 | 99.0 | 99.8 | 100.7 | 101.8 | 102.6 | 103.8 | 104.9 |
| 67.5° | 101.2 | 97.0 | 92.5 | 90.8 | 91.1 | 92.2 | 93.4 | 94.2 | 94.8 | 95.9 | 97.0 |
| 70° | 91.1 | 87.5 | 83.8 | 82.7 | 82.4 | 83.8 | 84.9 | 85.5 | 86.1 | 87.5 | 88.6 |
| 72.5° | 80.1 | 77.1 | 74.0 | 73.1 | 73.4 | 74.2 | 75.1 | 75.9 | 76.5 | 77.9 | 79.0 |
| 75° | 68.9 | 66.1 | 63.3 | 62.7 | 63.3 | 64.1 | 65.0 | 65.5 | 66.1 | 67.8 | 69.2 |
| 77.5° | 57.9 | 54.8 | 51.5 | 51.2 | 52.0 | 52.9 | 53.4 | 54.3 | 55.1 | 57.4 | 59.6 |
| 80° | 46.4 | 43.0 | 39.4 | 39.1 | 39.9 | 40.8 | 41.6 | 42.5 | 43.3 | 46.1 | 48.7 |
| 82.5° | 34.0 | 30.1 | 26.2 | 25.6 | 28.4 | 29.2 | 30.1 | 31.5 | 32.6 | 35.2 | 37.7 |
| 85° | 20.5 | 16.6 | 12.7 | 12.4 | 14.9 | 16.3 | 17.7 | 19.4 | 20.8 | 23.1 | 25.3 |
| 87.5° | 2.2 | 1.1 | 0.0 | 0.0 | 0.3 | 1.4 | 2.5 | 3.9 | 5.3 | 7.6 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 1801.5 | 1788.9 | 1801.8 | 1814.5 | 1819.8 | 1825.2 | 1811.4 | 1797.3 | 1819.3 | 1840.9 | 1846.5 |
| 5° | 1475.9 | 1464.3 | 1473.1 | 1481.5 | 1462.7 | 1443.8 | 1441.8 | 1439.6 | 1455.9 | 1472.2 | 1474.7 |
| 7.5° | 1144.0 | 1140.4 | 1148.5 | 1156.7 | 1132.8 | 1108.6 | 1096.8 | 1085.0 | 1088.9 | 1092.8 | 1092.3 |
| 10° | 853.0 | 855.2 | 865.3 | 875.2 | 856.6 | 838.1 | 829.9 | 821.7 | 830.7 | 839.5 | 847.6 |
| 12.5° | 638.9 | 643.7 | 654.4 | 664.8 | 657.2 | 649.4 | 650.2 | 651.0 | 661.4 | 671.6 | 680.6 |
| 15° | 496.4 | 502.0 | 509.6 | 516.9 | 517.2 | 517.2 | 524.5 | 531.5 | 530.7 | 529.8 | 536.0 |
| 17.5° | 410.9 | 418.2 | 419.0 | 419.9 | 420.2 | 420.4 | 419.9 | 419.3 | 415.1 | 410.9 | 415.7 |
| 20° | 351.8 | 354.3 | 356.6 | 358.6 | 356.0 | 353.2 | 346.2 | 339.2 | 336.3 | 333.5 | 338.0 |
| 22.5° | 320.0 | 324.5 | 322.3 | 319.8 | 314.7 | 309.3 | 304.0 | 298.4 | 298.1 | 297.5 | 300.1 |
| 25° | 293.3 | 297.0 | 293.0 | 289.1 | 285.4 | 281.8 | 278.1 | 274.5 | 274.2 | 273.9 | 275.0 |
| 27.5° | 271.1 | 274.5 | 270.8 | 267.2 | 264.1 | 261.0 | 258.2 | 255.4 | 254.8 | 254.2 | 254.5 |
| 30° | 252.0 | 255.1 | 252.0 | 248.6 | 246.4 | 243.8 | 241.9 | 239.9 | 239.6 | 239.3 | 239.3 |
| 32.5° | 234.8 | 237.9 | 235.7 | 233.4 | 231.4 | 229.5 | 228.1 | 226.7 | 225.3 | 223.9 | 220.8 |
| 35° | 219.9 | 223.0 | 221.6 | 219.9 | 217.7 | 215.4 | 212.9 | 210.1 | 206.4 | 202.5 | 200.8 |
| 37.5° | 207.3 | 210.4 | 209.0 | 207.5 | 204.5 | 201.4 | 196.9 | 192.1 | 191.0 | 189.5 | 189.3 |
| 40° | 197.1 | 201.9 | 199.1 | 196.0 | 191.2 | 186.5 | 184.2 | 182.0 | 181.4 | 180.8 | 180.3 |
| 42.5° | 185.9 | 193.2 | 188.1 | 183.1 | 178.6 | 174.1 | 173.5 | 173.0 | 172.7 | 172.4 | 172.4 |
| 45° | 171.8 | 179.7 | 174.6 | 169.3 | 166.8 | 164.2 | 164.2 | 164.2 | 164.5 | 164.5 | 165.1 |
| 47.5° | 158.6 | 163.4 | 160.9 | 158.3 | 156.9 | 155.5 | 155.8 | 156.1 | 156.9 | 157.5 | 158.9 |
| 50° | 147.4 | 149.0 | 149.6 | 149.9 | 149.0 | 148.2 | 148.8 | 149.0 | 149.9 | 150.5 | 151.6 |
| 52.5° | 139.2 | 141.7 | 141.7 | 141.5 | 141.5 | 141.5 | 142.0 | 142.6 | 143.4 | 144.3 | 145.4 |
| 55° | 133.9 | 137.5 | 136.4 | 135.3 | 135.6 | 135.6 | 136.1 | 136.7 | 137.5 | 138.1 | 139.8 |
| 57.5° | 128.8 | 132.7 | 131.6 | 130.5 | 130.5 | 130.5 | 130.8 | 131.1 | 131.9 | 132.5 | 133.6 |
| 60° | 122.9 | 126.8 | 125.7 | 124.3 | 124.6 | 124.9 | 125.1 | 125.1 | 125.7 | 126.0 | 126.0 |
| 62.5° | 115.9 | 119.8 | 118.7 | 117.3 | 118.1 | 118.7 | 118.7 | 118.7 | 119.2 | 119.5 | 118.7 |
| 65° | 108.6 | 112.2 | 111.1 | 110.0 | 111.1 | 111.9 | 112.5 | 112.8 | 112.5 | 112.2 | 111.4 |
| 67.5° | 100.7 | 104.3 | 103.2 | 101.8 | 103.2 | 104.3 | 105.5 | 106.3 | 105.5 | 104.6 | 103.5 |
| 70° | 92.2 | 95.9 | 94.5 | 93.1 | 94.5 | 95.9 | 97.0 | 98.1 | 97.0 | 95.9 | 95.6 |
| 72.5° | 83.2 | 87.5 | 85.8 | 84.1 | 85.8 | 87.5 | 88.0 | 88.6 | 87.7 | 86.9 | 86.3 |
| 75° | 73.4 | 77.6 | 76.2 | 74.5 | 75.9 | 77.3 | 77.6 | 77.9 | 77.9 | 77.6 | 75.9 |
| 77.5° | 63.0 | 66.4 | 65.5 | 64.7 | 65.5 | 66.4 | 66.4 | 66.4 | 66.7 | 66.7 | 64.4 |
| 80° | 50.6 | 52.6 | 52.9 | 53.2 | 53.4 | 53.7 | 53.4 | 53.2 | 52.6 | 52.0 | 50.6 |
| 82.5° | 37.7 | 37.7 | 39.9 | 41.9 | 41.9 | 41.6 | 41.3 | 40.8 | 39.7 | 38.2 | 35.2 |
| 85° | 23.9 | 22.5 | 26.2 | 29.5 | 29.5 | 29.2 | 28.7 | 27.8 | 25.6 | 23.1 | 20.5 |
| 87.5° | 8.2 | 6.7 | 10.4 | 14.1 | 14.3 | 14.3 | 13.8 | 13.2 | 11.0 | 8.4 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 1855.0 | 1858.6 | 1862.0 | 1889.6 | 1916.8 | 1948.9 | 1981.0 | 2005.4 | 2029.6 | 2054.6 | 2079.7 |
| 5° | 1483.5 | 1488.0 | 1492.5 | 1525.9 | 1559.1 | 1603.8 | 1648.5 | 1687.1 | 1725.6 | 1770.9 | 1816.2 |
| 7.5° | 1099.6 | 1109.4 | 1119.0 | 1154.7 | 1190.1 | 1238.2 | 1286.0 | 1336.4 | 1386.4 | 1445.5 | 1504.6 |
| 10° | 863.6 | 882.2 | 900.5 | 937.0 | 973.6 | 1021.1 | 1068.4 | 1121.0 | 1173.6 | 1231.8 | 1289.7 |
| 12.5° | 699.1 | 723.9 | 748.3 | 792.2 | 836.1 | 892.9 | 949.4 | 1007.9 | 1066.1 | 1117.3 | 1168.5 |
| 15° | 552.3 | 579.3 | 606.0 | 652.4 | 698.8 | 761.3 | 823.4 | 887.3 | 950.8 | 1012.1 | 1073.4 |
| 17.5° | 430.8 | 453.1 | 475.0 | 514.4 | 553.5 | 613.9 | 674.4 | 741.3 | 808.2 | 883.0 | 957.6 |
| 20° | 347.6 | 356.9 | 366.2 | 394.6 | 422.7 | 471.9 | 520.8 | 589.2 | 657.5 | 746.9 | 836.4 |
| 22.5° | 304.6 | 309.3 | 313.8 | 327.6 | 341.1 | 372.9 | 404.4 | 464.9 | 525.0 | 622.6 | 719.9 |
| 25° | 278.7 | 282.4 | 286.0 | 295.0 | 304.0 | 319.2 | 334.4 | 376.8 | 419.3 | 515.2 | 610.8 |
| 27.5° | 255.4 | 261.0 | 266.3 | 270.5 | 274.5 | 284.9 | 295.0 | 322.8 | 350.7 | 440.1 | 529.3 |
| 30° | 238.5 | 240.4 | 242.4 | 248.9 | 255.1 | 265.8 | 276.4 | 295.8 | 315.3 | 390.9 | 466.3 |
| 32.5° | 218.8 | 221.6 | 224.4 | 231.2 | 237.9 | 247.8 | 257.6 | 273.4 | 288.8 | 353.5 | 417.9 |
| 35° | 201.1 | 203.9 | 206.7 | 213.5 | 219.9 | 230.6 | 241.0 | 254.2 | 267.2 | 323.4 | 379.7 |
| 37.5° | 190.1 | 192.9 | 195.7 | 201.6 | 207.3 | 218.0 | 228.4 | 238.8 | 248.9 | 300.9 | 352.9 |
| 40° | 180.8 | 183.6 | 186.5 | 192.1 | 197.4 | 207.8 | 218.0 | 226.7 | 235.4 | 284.0 | 332.7 |
| 42.5° | 172.7 | 175.8 | 178.9 | 184.5 | 189.8 | 199.1 | 208.4 | 219.9 | 231.2 | 269.4 | 307.4 |
| 45° | 165.9 | 169.0 | 171.8 | 178.0 | 184.2 | 193.2 | 202.2 | 218.2 | 234.3 | 261.8 | 289.4 |
| 47.5° | 159.7 | 163.1 | 166.2 | 173.0 | 179.7 | 191.0 | 201.9 | 215.4 | 228.6 | 255.9 | 283.2 |
| 50° | 153.8 | 157.8 | 161.7 | 169.9 | 177.7 | 196.6 | 215.1 | 217.1 | 218.8 | 251.1 | 283.2 |
| 52.5° | 148.2 | 152.7 | 157.2 | 167.3 | 177.2 | 199.1 | 221.0 | 214.0 | 206.7 | 242.1 | 277.6 |
| 55° | 142.6 | 146.5 | 150.2 | 162.5 | 174.9 | 191.0 | 207.0 | 197.7 | 188.1 | 225.3 | 262.4 |
| 57.5° | 135.0 | 139.2 | 143.1 | 156.4 | 169.6 | 180.8 | 191.8 | 183.4 | 174.6 | 206.1 | 237.4 |
| 60° | 127.1 | 131.9 | 136.7 | 153.5 | 170.1 | 168.2 | 165.9 | 164.2 | 162.3 | 184.8 | 207.3 |
| 62.5° | 120.1 | 125.1 | 130.2 | 152.1 | 174.1 | 160.6 | 147.1 | 148.5 | 149.6 | 166.2 | 182.8 |
| 65° | 113.1 | 118.1 | 122.9 | 133.9 | 144.8 | 139.5 | 134.1 | 136.4 | 138.4 | 154.7 | 171.0 |
| 67.5° | 105.2 | 109.7 | 113.9 | 117.6 | 121.2 | 121.8 | 122.3 | 124.6 | 126.8 | 146.2 | 165.4 |
| 70° | 96.5 | 100.1 | 103.8 | 106.3 | 108.6 | 109.7 | 110.5 | 113.3 | 116.1 | 137.2 | 158.3 |
| 72.5° | 86.6 | 89.7 | 92.5 | 94.8 | 97.0 | 97.9 | 98.4 | 101.2 | 104.1 | 126.6 | 149.0 |
| 75° | 75.9 | 78.5 | 80.7 | 82.7 | 84.6 | 85.8 | 86.9 | 88.9 | 90.8 | 115.3 | 139.5 |
| 77.5° | 64.1 | 66.7 | 68.9 | 70.6 | 72.0 | 73.1 | 74.0 | 76.5 | 79.0 | 99.6 | 119.8 |
| 80° | 50.1 | 53.2 | 56.0 | 57.4 | 58.5 | 58.8 | 58.8 | 61.0 | 63.3 | 77.9 | 92.2 |
| 82.5° | 35.4 | 38.8 | 41.9 | 43.0 | 44.2 | 44.2 | 44.2 | 46.7 | 49.2 | 59.1 | 68.6 |
| 85° | 20.8 | 24.5 | 27.8 | 29.0 | 30.1 | 30.7 | 30.9 | 32.1 | 32.9 | 39.9 | 46.7 |
| 87.5° | 6.5 | 9.6 | 12.4 | 12.9 | 13.5 | 14.6 | 15.7 | 16.0 | 16.0 | 20.8 | 25.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 | 2142.9 |
| 2.5° | 2108.4 | 2137.0 | 2170.5 | 2203.7 | 2232.1 | 2260.5 | 2284.1 |
| 5° | 1873.8 | 1931.5 | 2002.0 | 2072.4 | 2135.1 | 2197.8 | 2270.6 |
| 7.5° | 1579.1 | 1653.6 | 1745.0 | 1836.4 | 1925.0 | 2013.3 | 2125.2 |
| 10° | 1365.6 | 1441.3 | 1538.0 | 1634.5 | 1734.0 | 1833.3 | 1959.9 |
| 12.5° | 1230.1 | 1291.4 | 1385.0 | 1478.7 | 1595.7 | 1712.4 | 1834.2 |
| 15° | 1140.7 | 1207.6 | 1298.7 | 1389.8 | 1517.8 | 1645.7 | 1785.8 |
| 17.5° | 1045.3 | 1132.8 | 1249.5 | 1366.2 | 1517.8 | 1669.1 | 1834.2 |
| 20° | 945.5 | 1054.3 | 1205.6 | 1356.9 | 1561.1 | 1765.0 | 1975.6 |
| 22.5° | 845.9 | 971.9 | 1166.0 | 1359.7 | 1626.6 | 1893.2 | 2177.5 |
| 25° | 756.2 | 901.6 | 1141.8 | 1381.7 | 1721.9 | 2061.9 | 2414.6 |
| 27.5° | 688.2 | 846.8 | 1131.9 | 1416.8 | 1842.9 | 2268.9 | 2672.5 |
| 30° | 627.7 | 789.1 | 1120.1 | 1451.1 | 1959.3 | 2467.2 | 2874.1 |
| 32.5° | 575.4 | 732.9 | 1097.3 | 1461.5 | 2040.6 | 2619.6 | 3044.8 |
| 35° | 534.3 | 689.0 | 1059.1 | 1429.2 | 2091.5 | 2753.8 | 3222.6 |
| 37.5° | 498.9 | 644.9 | 1015.5 | 1386.2 | 2136.8 | 2887.3 | 3422.5 |
| 40° | 465.1 | 597.6 | 978.1 | 1358.3 | 2199.2 | 3040.1 | 3633.7 |
| 42.5° | 433.1 | 558.8 | 948.0 | 1337.2 | 2257.1 | 3176.7 | 3818.5 |
| 45° | 409.2 | 529.0 | 921.3 | 1313.3 | 2294.5 | 3275.7 | 3957.7 |
| 47.5° | 397.4 | 511.3 | 907.0 | 1302.4 | 2331.9 | 3361.2 | 4073.3 |
| 50° | 395.7 | 508.2 | 923.3 | 1338.4 | 2412.9 | 3487.2 | 4205.5 |
| 52.5° | 395.4 | 513.2 | 970.2 | 1427.2 | 2563.4 | 3699.2 | 4348.6 |
| 55° | 389.5 | 516.3 | 1026.2 | 1535.8 | 2765.3 | 3994.5 | 4605.9 |
| 57.5° | 371.5 | 505.6 | 1083.8 | 1661.8 | 2978.7 | 4295.4 | 4895.9 |
| 60° | 343.7 | 479.8 | 1131.4 | 1782.7 | 3122.2 | 4461.4 | 5007.5 |
| 62.5° | 308.8 | 434.5 | 1147.1 | 1859.5 | 3118.2 | 4377.0 | 4895.0 |
| 65° | 279.0 | 387.0 | 1095.4 | 1803.5 | 2960.5 | 4117.1 | 4672.6 |
| 67.5° | 252.5 | 339.4 | 966.0 | 1592.3 | 2676.7 | 3760.8 | 4389.7 |
| 70° | 233.4 | 308.2 | 799.2 | 1290.3 | 2321.5 | 3352.5 | 4062.0 |
| 72.5° | 221.3 | 293.3 | 651.6 | 1009.6 | 1883.9 | 2758.0 | 3474.5 |
| 75° | 204.7 | 270.0 | 511.3 | 752.3 | 1441.8 | 2131.4 | 2624.4 |
| 77.5° | 173.8 | 227.5 | 385.3 | 543.0 | 1058.0 | 1572.6 | 1825.2 |
| 80° | 134.1 | 175.8 | 264.9 | 354.1 | 728.1 | 1102.1 | 1244.4 |
| 82.5° | 95.6 | 122.6 | 160.6 | 198.5 | 483.7 | 768.6 | 780.4 |
| 85° | 59.1 | 71.4 | 92.0 | 112.5 | 320.0 | 527.6 | 439.6 |
| 87.5° | 31.8 | 38.0 | 48.7 | 59.1 | 102.4 | 145.7 | 83.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P362183
 CATALOG NUMBER: NVN-SA1D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

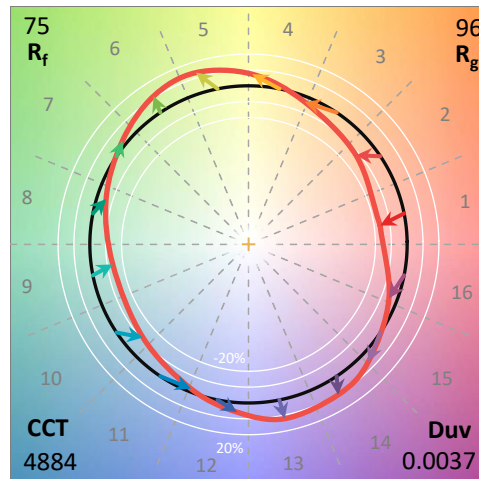
Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-750-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 4884 | CRI (Ra): | 73.5 | R9: | -28.4 |
| CIE u': | 0.2101 | R1: | 70.5 | R10: | 48.6 |
| CIE v': | 0.4904 | R2: | 77.7 | R11: | 73.2 |
| Duv: | 0.0037 | R3: | 84.6 | R12: | 50.7 |
| CIE x: | 0.3493 | R4: | 74.7 | R13: | 71.2 |
| CIE y: | 0.3624 | R5: | 71.9 | R14: | 91.4 |
| CIE z: | 0.2884 | R6: | 70.7 | | |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |
| Rf: | 74.9 | | | | |
| Rg: | 96.3 | | | | |



Test Conditions

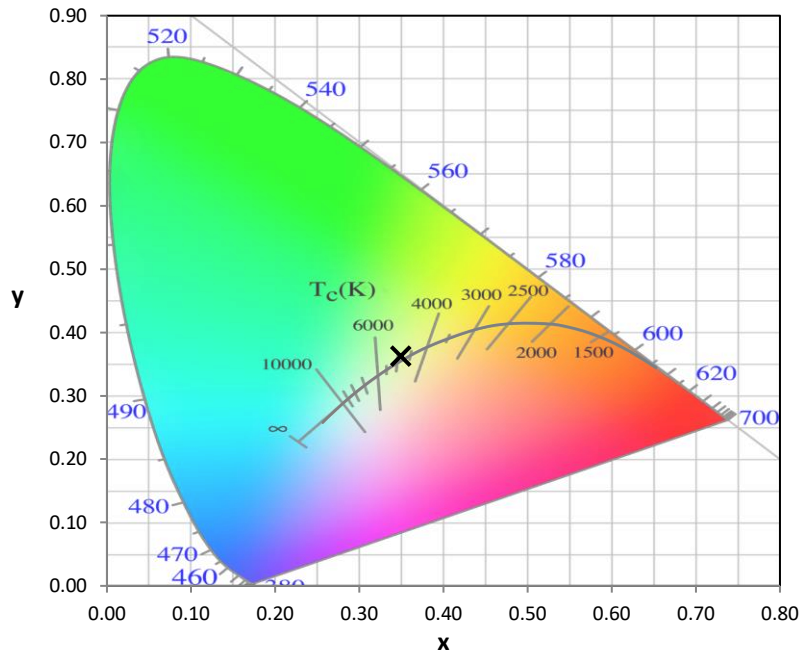
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-4-R4

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-4-R4

CIE 1931 Chromaticity Diagram



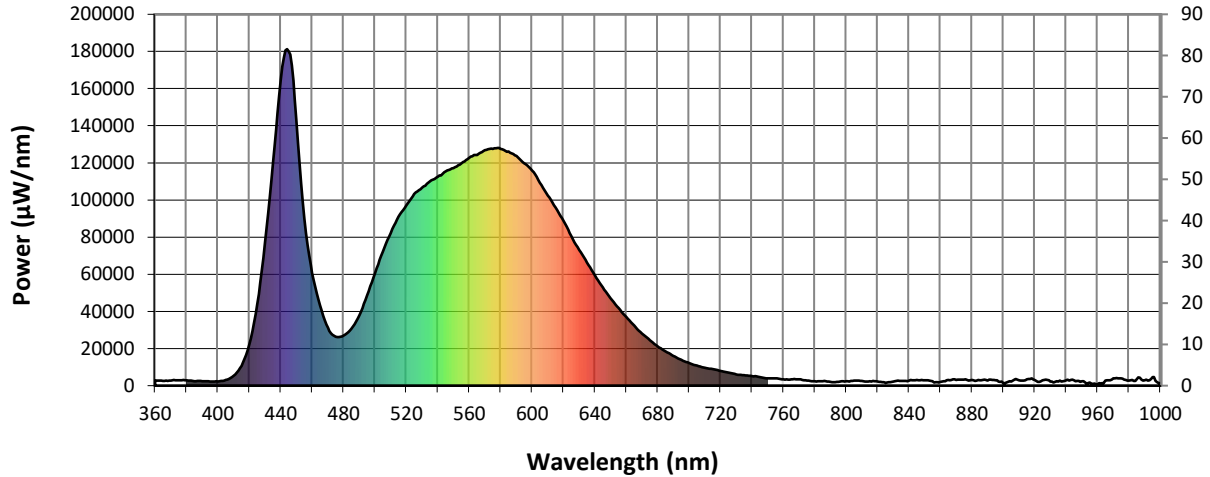
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-4-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13493.5 S/P: 1.77

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 5378.9 M/P: 0.71

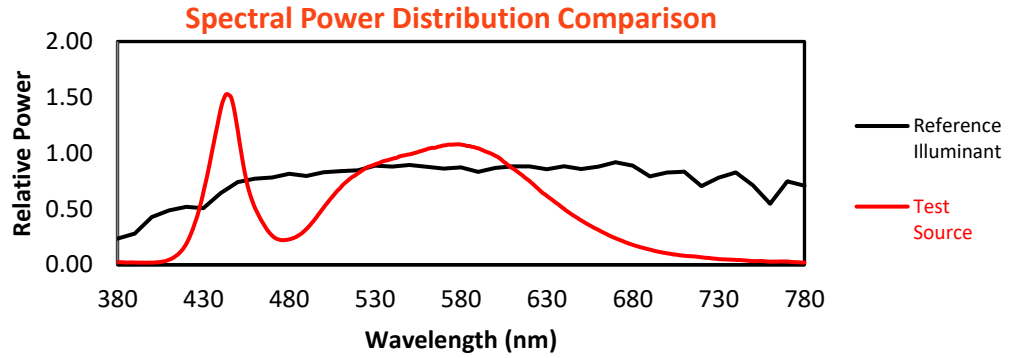
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
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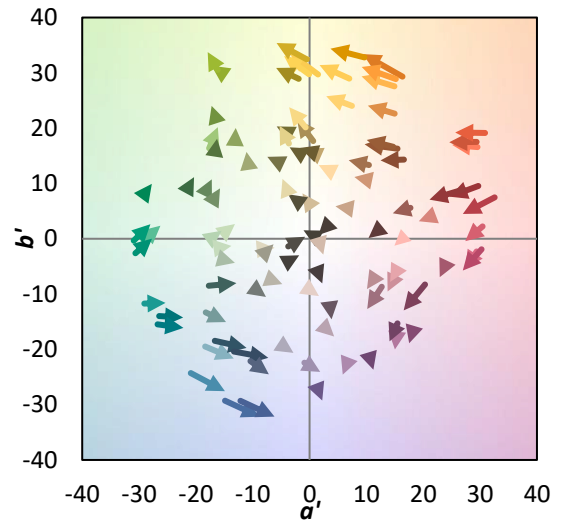
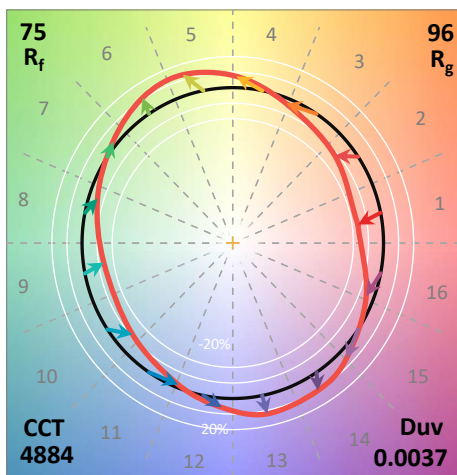
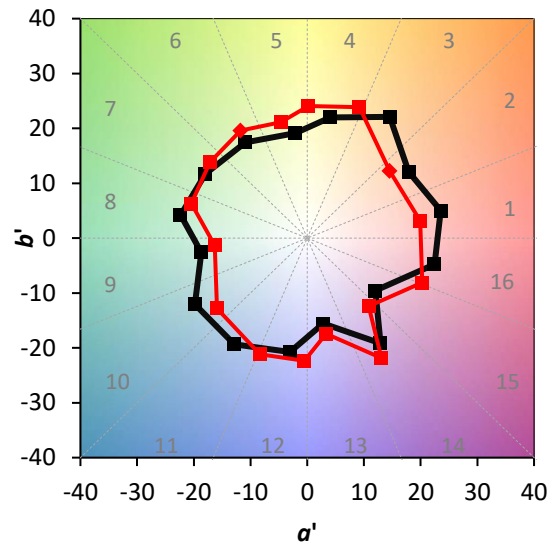
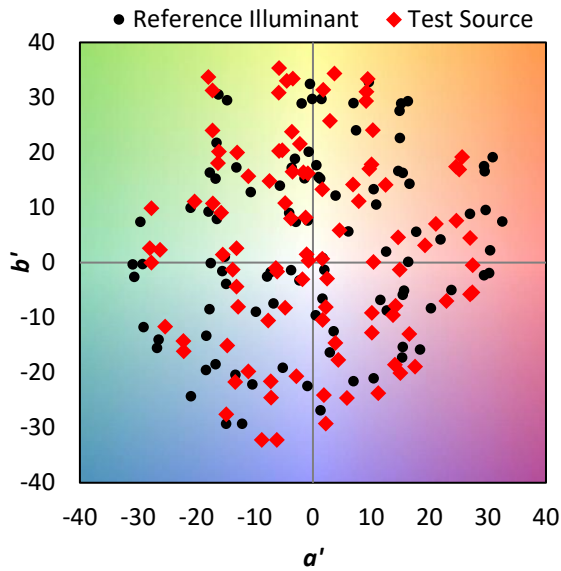
TM-30-18

Summary

$R_f = 74.9$
 $R_g = 96.3$
 CIE $R_a = 73.5$
 $R_g = -28.4$



Color Vector Graphics

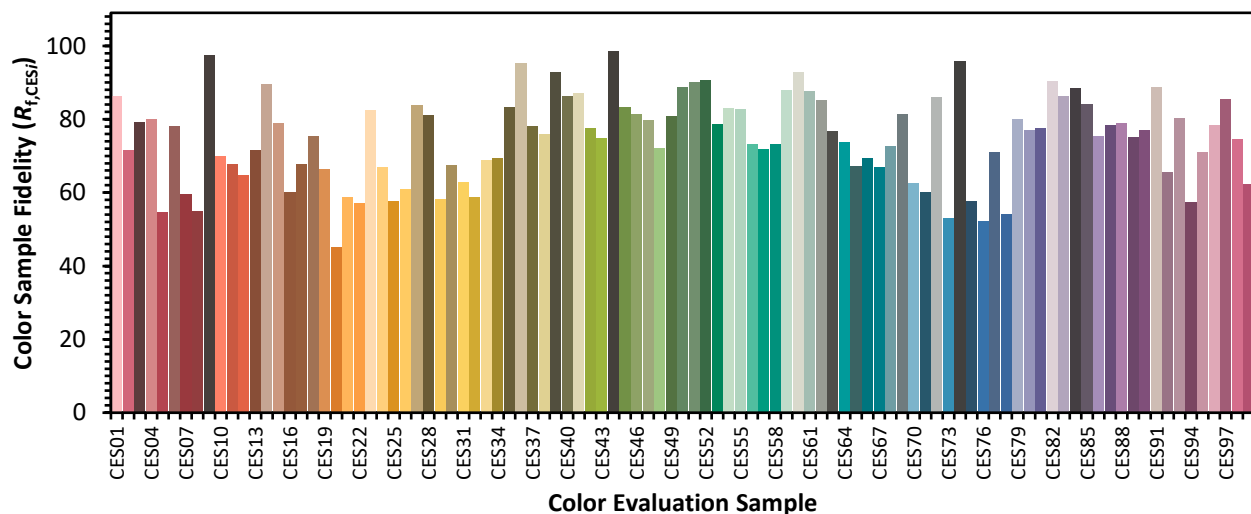


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Individual Sample Fidelity Index ($R_{f,i}$)

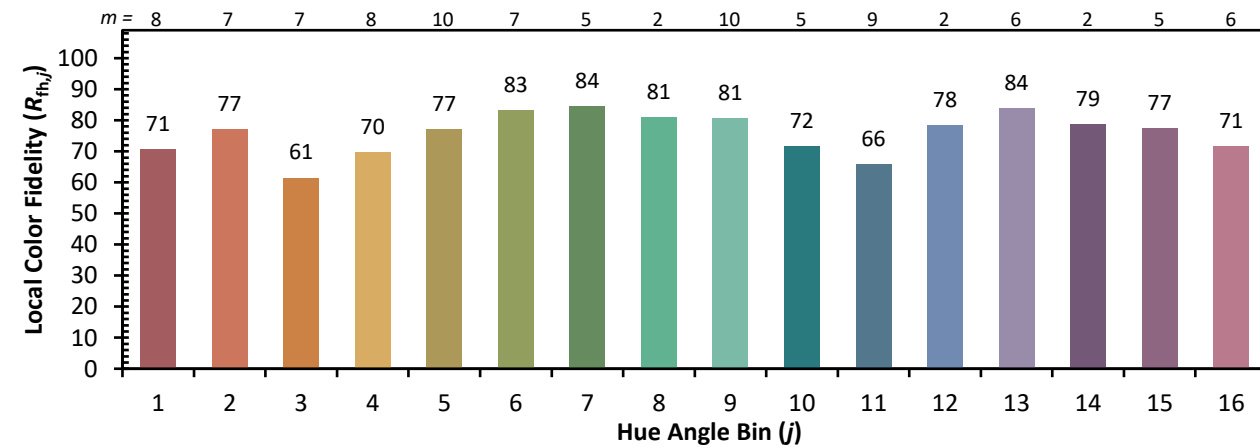
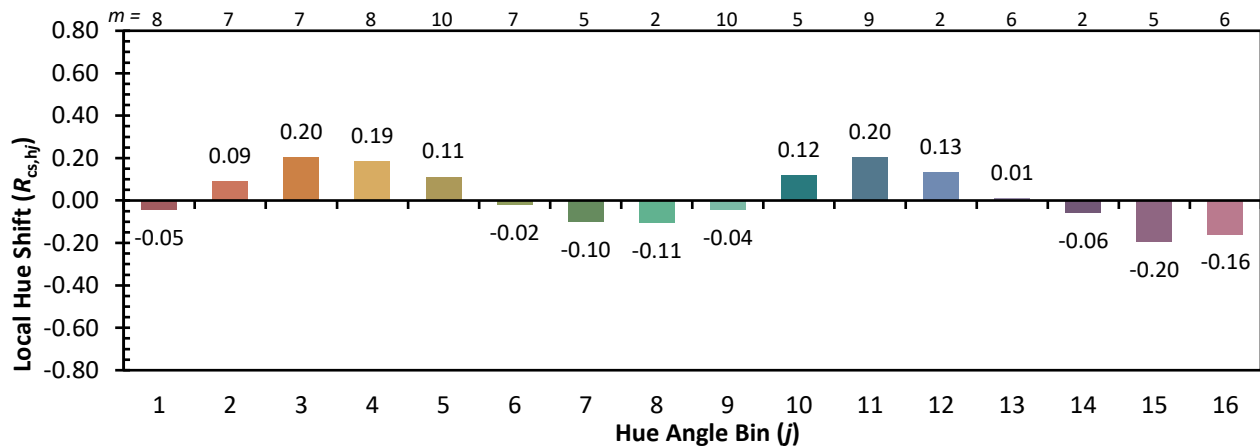
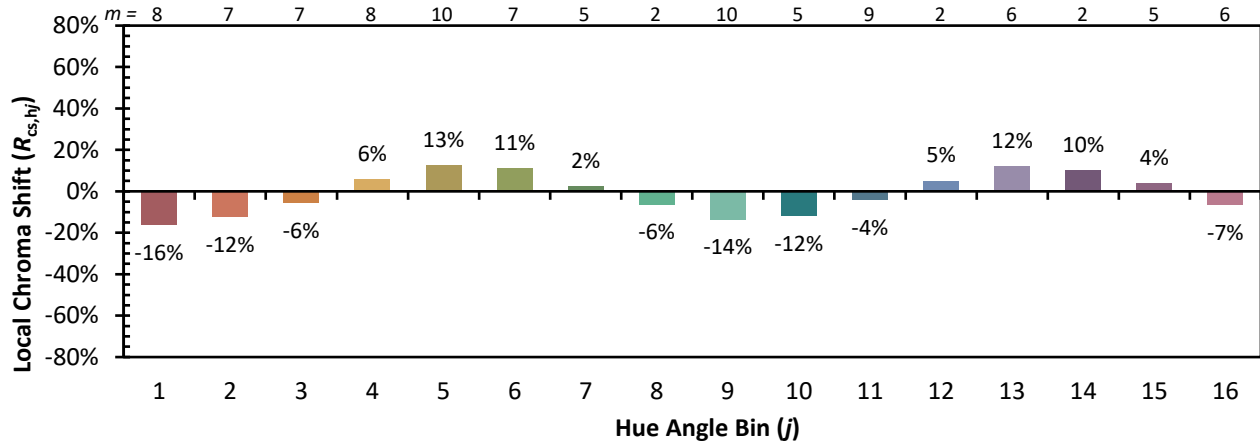
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |



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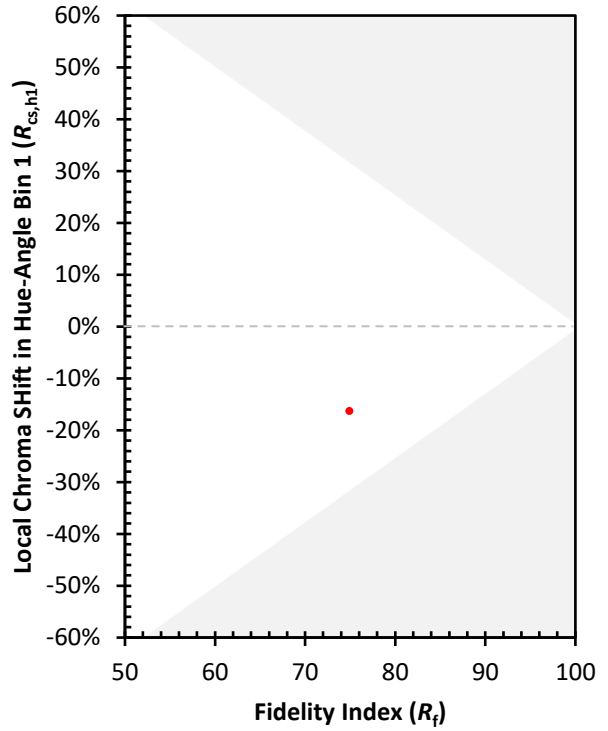
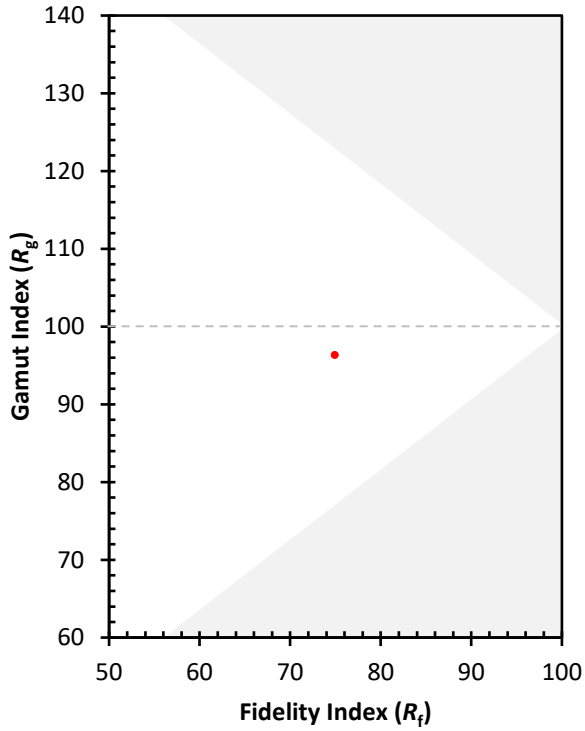
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)