

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: P364056

Luminaire Tested: NVN-SA2D-750-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P364056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA2D-750-U-SLR-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11828 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

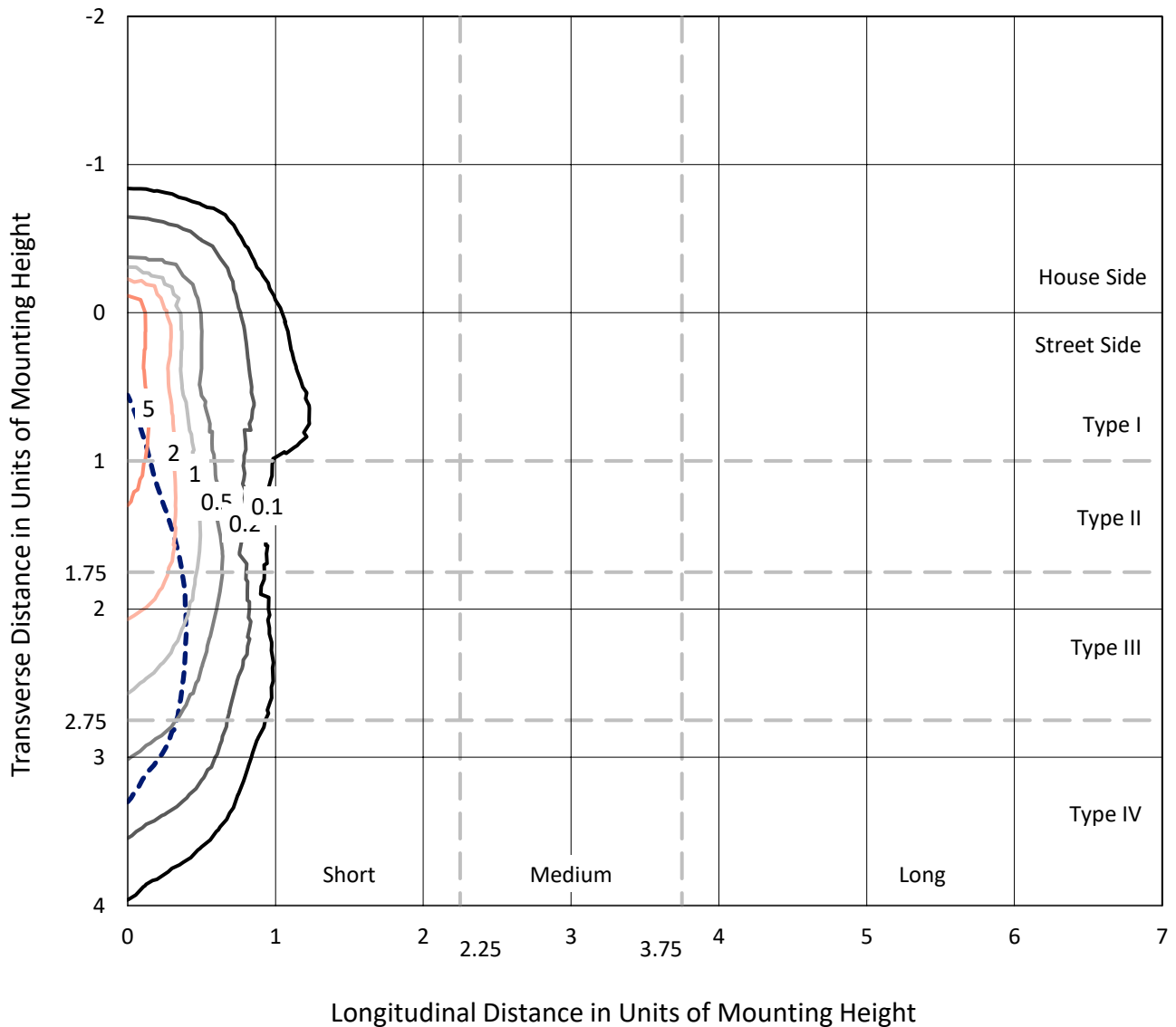
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

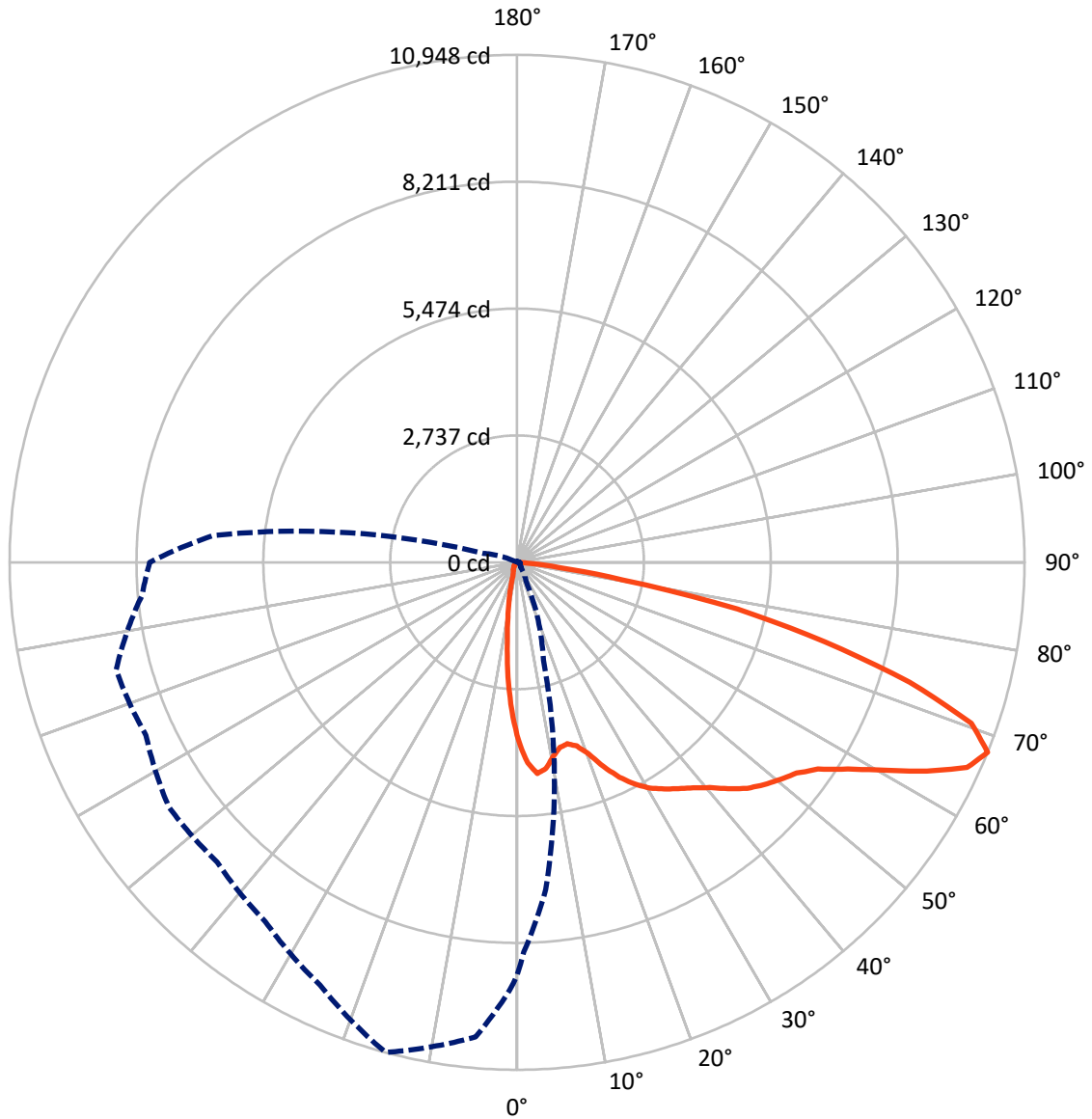
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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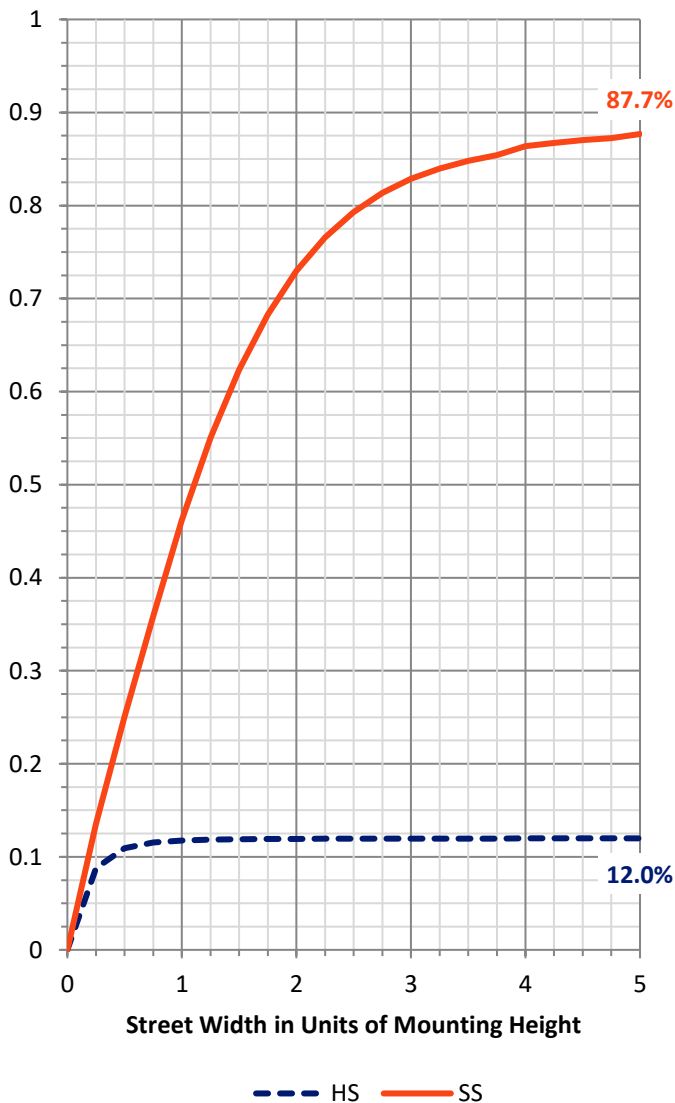
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1431.6 | 0.0 | 1431.6 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 10396.4 | 0.0 | 10396.4 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 11828.0 | 0.0 | 11828.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 295.7 | 2.5 |
| 10°-20° | 588.6 | 5.0 |
| 20°-30° | 835.8 | 7.1 |
| 30°-40° | 1234.6 | 10.4 |
| 40°-50° | 1780.5 | 15.1 |
| 50°-60° | 2499.4 | 21.1 |
| 60°-70° | 2913.6 | 24.6 |
| 70°-80° | 1489.5 | 12.6 |
| 80°-90° | 190.2 | 1.6 |
| 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° | 11828.0 | 100.0 |
| 0°-180° | 11828.0 | 100.0 |

Coefficient of Utilization

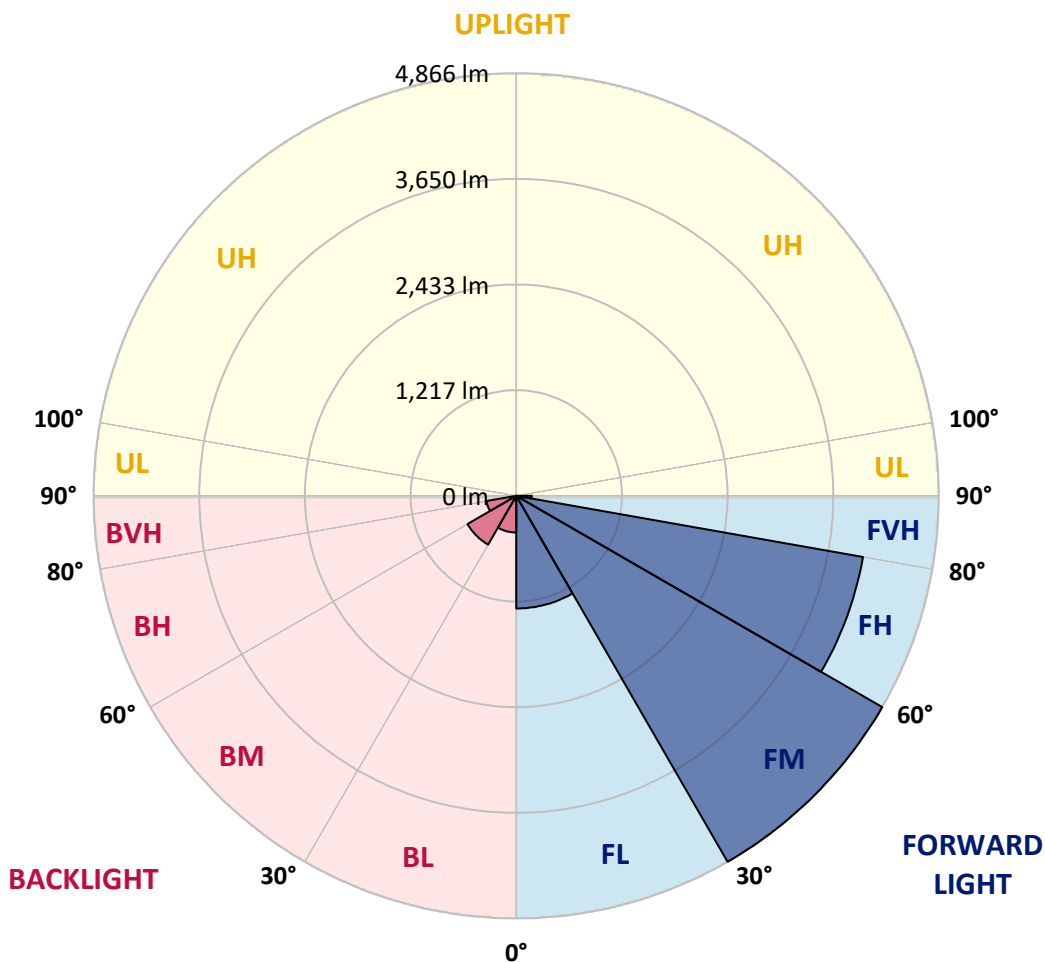


REPORT NUMBER: P364056
 CATALOG NUMBER: NVN-SA2D-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1297.3 | 11.0 | | | |
| FM (30°-60°) | 4866.2 | 41.1 | | | |
| FH (60°-80°) | 4054.2 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 178.7 | 1.5 | | | G2/225 |
| BL (0°-30°) | 422.8 | 3.6 | B1/500 | | |
| BM (30°-60°) | 648.3 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 348.9 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P364056

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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 |
| 2.5° | 4218.9 | 4186.4 | 4150.5 | 4033.4 | 3924.7 | 3800.3 | 3698.9 | 3628.2 | 3539.7 | 3424.8 | 3395.7 |
| 5° | 4188.6 | 4153.9 | 4041.2 | 3780.7 | 3552.6 | 3330.7 | 3116.7 | 2991.1 | 2835.4 | 2677.3 | 2638.1 |
| 7.5° | 3884.3 | 3847.9 | 3685.4 | 3328.5 | 3021.4 | 2700.9 | 2422.9 | 2250.9 | 2075.0 | 1930.4 | 1853.6 |
| 10° | 3567.7 | 3527.9 | 3345.3 | 2912.1 | 2533.9 | 2244.2 | 2040.2 | 1876.0 | 1709.6 | 1555.0 | 1431.7 |
| 12.5° | 3349.8 | 3297.6 | 3099.3 | 2608.4 | 2278.9 | 2082.3 | 1891.7 | 1695.1 | 1469.8 | 1303.9 | 1168.3 |
| 15° | 3258.4 | 3199.0 | 2989.5 | 2491.3 | 2188.7 | 1957.9 | 1709.6 | 1468.1 | 1204.2 | 1014.2 | 889.8 |
| 17.5° | 3329.0 | 3251.7 | 3027.0 | 2483.5 | 2075.5 | 1761.2 | 1447.4 | 1163.8 | 877.5 | 685.3 | 596.8 |
| 20° | 3568.9 | 3467.4 | 3182.2 | 2481.2 | 1938.2 | 1527.5 | 1129.7 | 809.1 | 578.3 | 465.1 | 418.6 |
| 22.5° | 3946.5 | 3812.6 | 3405.2 | 2499.1 | 1796.5 | 1282.1 | 815.9 | 549.7 | 434.3 | 375.4 | 348.0 |
| 25° | 4402.6 | 4247.4 | 3726.3 | 2562.5 | 1672.1 | 1043.4 | 592.8 | 434.3 | 366.5 | 323.3 | 300.3 |
| 27.5° | 4836.4 | 4710.3 | 4132.0 | 2653.8 | 1575.7 | 850.6 | 481.3 | 368.1 | 313.2 | 284.7 | 266.2 |
| 30° | 5269.5 | 5110.9 | 4548.3 | 2762.5 | 1459.7 | 720.0 | 423.1 | 335.6 | 280.7 | 250.5 | 238.7 |
| 32.5° | 5584.4 | 5452.7 | 4874.5 | 2841.0 | 1335.9 | 634.9 | 378.2 | 307.1 | 262.2 | 231.4 | 214.1 |
| 35° | 5954.8 | 5805.8 | 5154.1 | 2858.3 | 1256.3 | 581.1 | 340.1 | 276.3 | 227.5 | 200.0 | 181.6 |
| 37.5° | 6354.9 | 6169.4 | 5476.8 | 2820.2 | 1194.1 | 554.7 | 311.6 | 262.2 | 212.4 | 184.4 | 164.7 |
| 40° | 6797.6 | 6588.0 | 5786.7 | 2765.3 | 1133.0 | 545.8 | 289.7 | 251.6 | 200.6 | 172.0 | 151.9 |
| 42.5° | 7263.8 | 7016.7 | 6055.1 | 2707.6 | 1094.4 | 515.0 | 287.5 | 240.9 | 191.6 | 160.8 | 140.6 |
| 45° | 7655.5 | 7405.0 | 6330.8 | 2688.5 | 1066.9 | 481.3 | 297.0 | 233.7 | 185.5 | 151.9 | 132.2 |
| 47.5° | 7967.6 | 7730.6 | 6613.2 | 2731.1 | 1051.2 | 450.5 | 270.6 | 243.2 | 182.1 | 144.0 | 125.0 |
| 50° | 8340.2 | 8071.8 | 7011.1 | 2858.3 | 1028.2 | 419.7 | 244.9 | 278.5 | 182.1 | 139.0 | 118.8 |
| 52.5° | 8807.5 | 8541.9 | 7454.9 | 3055.6 | 982.3 | 377.1 | 220.2 | 279.1 | 183.8 | 132.2 | 110.9 |
| 55° | 9395.3 | 9202.6 | 8088.6 | 3271.9 | 908.9 | 314.4 | 190.5 | 239.8 | 177.1 | 119.9 | 103.7 |
| 57.5° | 9959.1 | 9801.6 | 8666.3 | 3419.8 | 810.8 | 245.4 | 165.9 | 193.3 | 161.9 | 105.3 | 92.5 |
| 59° | 10113.2 | 9941.1 | 8878.1 | 3426.5 | 737.4 | 214.1 | 153.5 | 159.7 | 158.6 | 98.6 | 85.7 |
| 60° | 10113.2 | 9930.5 | 8939.2 | 3390.7 | 684.2 | 196.7 | 145.7 | 142.3 | 165.3 | 94.1 | 81.8 |
| 62.5° | 9929.9 | 9673.3 | 8740.9 | 3148.0 | 558.1 | 167.5 | 127.2 | 117.7 | 148.5 | 84.6 | 72.3 |
| 65° | 9548.9 | 9175.1 | 8065.1 | 2709.3 | 497.6 | 153.5 | 109.8 | 96.4 | 103.1 | 74.5 | 63.3 |
| 67.5° | 8913.4 | 8406.9 | 7090.6 | 2188.7 | 473.5 | 149.6 | 94.7 | 81.8 | 77.9 | 63.9 | 55.5 |
| 70° | 7794.4 | 7232.4 | 5907.7 | 1720.8 | 452.8 | 147.9 | 79.6 | 68.9 | 62.8 | 53.8 | 47.1 |
| 72.5° | 5673.0 | 5086.8 | 4194.2 | 1345.4 | 440.4 | 151.3 | 63.9 | 57.7 | 51.6 | 42.0 | 36.4 |
| 75° | 3245.0 | 2861.1 | 2357.4 | 888.7 | 375.4 | 144.6 | 49.3 | 48.2 | 37.0 | 30.3 | 25.2 |
| 77.5° | 1676.6 | 1625.6 | 1412.6 | 341.3 | 179.9 | 63.3 | 32.5 | 28.0 | 21.9 | 18.5 | 15.1 |
| 80° | 723.4 | 715.6 | 619.2 | 98.6 | 47.6 | 35.3 | 18.5 | 11.8 | 10.1 | 7.8 | 6.2 |
| 82.5° | 249.9 | 249.9 | 220.2 | 33.1 | 21.3 | 17.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 50.4 | 56.6 | 39.8 | 0.0 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 |
| 2.5° | 3360.4 | 3292.6 | 3288.1 | 3245.5 | 3192.3 | 3168.2 | 3154.2 | 3178.9 | 3209.1 | 3212.5 | 3257.9 |
| 5° | 2608.4 | 2537.3 | 2567.0 | 2491.3 | 2506.4 | 2491.3 | 2466.6 | 2471.1 | 2484.6 | 2442.6 | 2494.7 |
| 7.5° | 1831.8 | 1778.0 | 1812.2 | 1792.0 | 1818.9 | 1829.5 | 1814.4 | 1792.0 | 1725.9 | 1718.0 | 1763.4 |
| 10° | 1380.7 | 1319.6 | 1283.2 | 1245.1 | 1253.5 | 1270.9 | 1265.3 | 1249.0 | 1207.0 | 1209.2 | 1252.9 |
| 12.5° | 1109.5 | 1041.1 | 968.8 | 875.3 | 852.3 | 865.2 | 852.3 | 842.8 | 802.4 | 805.8 | 844.4 |
| 15° | 841.6 | 785.6 | 710.0 | 634.9 | 594.0 | 597.9 | 562.0 | 536.8 | 511.6 | 481.3 | 504.9 |
| 17.5° | 568.2 | 534.0 | 511.6 | 489.2 | 440.4 | 429.2 | 383.8 | 335.1 | 316.0 | 302.0 | 312.1 |
| 20° | 402.3 | 383.8 | 374.9 | 373.8 | 345.7 | 331.7 | 287.5 | 257.2 | 247.7 | 244.9 | 251.0 |
| 22.5° | 336.2 | 322.8 | 309.9 | 302.6 | 288.6 | 272.3 | 238.7 | 223.6 | 216.9 | 213.5 | 218.0 |
| 25° | 292.5 | 282.4 | 269.0 | 256.6 | 251.0 | 233.7 | 209.6 | 198.4 | 193.9 | 190.5 | 192.8 |
| 27.5° | 260.0 | 251.0 | 235.3 | 227.5 | 223.0 | 207.9 | 187.2 | 178.2 | 174.3 | 173.1 | 172.6 |
| 30° | 234.2 | 225.8 | 211.3 | 202.3 | 194.4 | 181.0 | 168.7 | 159.7 | 155.8 | 154.7 | 153.5 |
| 32.5° | 208.4 | 201.7 | 192.2 | 183.2 | 174.8 | 162.5 | 151.9 | 144.6 | 138.4 | 137.3 | 136.7 |
| 35° | 175.9 | 169.2 | 164.2 | 163.6 | 155.8 | 144.0 | 136.2 | 126.6 | 121.6 | 119.9 | 120.5 |
| 37.5° | 156.3 | 147.4 | 136.2 | 140.1 | 137.8 | 129.4 | 118.8 | 109.3 | 104.2 | 103.1 | 103.1 |
| 40° | 144.0 | 134.5 | 121.6 | 114.9 | 121.6 | 119.9 | 103.1 | 93.6 | 88.5 | 88.0 | 86.9 |
| 42.5° | 132.2 | 122.7 | 108.1 | 96.9 | 100.3 | 105.3 | 89.1 | 80.1 | 75.1 | 74.0 | 72.3 |
| 45° | 123.8 | 113.8 | 97.5 | 84.6 | 77.9 | 88.5 | 76.2 | 65.0 | 62.2 | 60.0 | 58.8 |
| 47.5° | 116.0 | 106.5 | 88.0 | 73.4 | 62.2 | 63.9 | 61.1 | 53.2 | 49.9 | 47.6 | 47.1 |
| 50° | 109.3 | 99.2 | 79.6 | 62.8 | 51.6 | 47.1 | 49.3 | 42.0 | 39.2 | 37.0 | 35.9 |
| 52.5° | 101.4 | 91.9 | 70.6 | 54.4 | 43.1 | 37.0 | 37.5 | 33.1 | 30.3 | 28.6 | 28.0 |
| 55° | 95.3 | 85.7 | 63.3 | 47.6 | 38.1 | 30.3 | 26.9 | 25.8 | 24.1 | 23.0 | 22.4 |
| 57.5° | 86.9 | 77.9 | 56.0 | 40.3 | 32.5 | 24.7 | 20.7 | 20.7 | 20.2 | 19.1 | 18.5 |
| 59° | 81.8 | 74.0 | 51.6 | 36.4 | 29.7 | 21.3 | 18.5 | 19.1 | 18.5 | 17.4 | 16.8 |
| 60° | 77.9 | 70.6 | 48.2 | 33.6 | 28.0 | 19.6 | 16.8 | 17.9 | 17.4 | 16.3 | 15.7 |
| 62.5° | 68.9 | 63.9 | 41.5 | 28.0 | 24.7 | 15.7 | 14.0 | 15.1 | 15.1 | 14.6 | 14.0 |
| 65° | 60.5 | 54.9 | 35.3 | 23.5 | 23.0 | 13.4 | 11.2 | 13.4 | 14.0 | 12.9 | 11.8 |
| 67.5° | 52.7 | 47.1 | 30.8 | 19.1 | 21.3 | 10.6 | 8.4 | 11.2 | 15.1 | 11.8 | 10.6 |
| 70° | 44.8 | 39.2 | 24.1 | 15.1 | 22.4 | 7.3 | 6.7 | 10.1 | 17.9 | 12.9 | 10.1 |
| 72.5° | 34.7 | 30.3 | 16.8 | 11.2 | 24.1 | 5.0 | 5.0 | 8.4 | 20.2 | 14.0 | 9.5 |
| 75° | 24.1 | 19.6 | 10.1 | 6.7 | 19.6 | 3.4 | 3.4 | 7.8 | 19.1 | 12.9 | 9.0 |
| 77.5° | 14.0 | 10.6 | 3.4 | 0.6 | 10.1 | 0.0 | 0.6 | 5.6 | 13.4 | 7.8 | 3.9 |
| 80° | 5.0 | 2.2 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 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-SA2D-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 |
| 2.5° | 3269.6 | 3345.3 | 3413.1 | 3515.6 | 3637.2 | 3777.3 | 3897.8 | 4027.2 | 4148.8 | 4199.2 | 4234.0 |
| 5° | 2505.3 | 2598.9 | 2708.2 | 2858.9 | 3059.5 | 3306.6 | 3538.0 | 3799.7 | 4081.0 | 4221.7 | 4353.9 |
| 7.5° | 1771.3 | 1866.5 | 2002.1 | 2162.4 | 2405.0 | 2699.2 | 3001.8 | 3363.2 | 3744.2 | 3966.7 | 4185.8 |
| 10° | 1273.7 | 1390.8 | 1517.4 | 1736.5 | 1983.1 | 2262.1 | 2573.7 | 2977.1 | 3401.9 | 3648.4 | 3912.3 |
| 12.5° | 866.9 | 1000.2 | 1191.9 | 1437.3 | 1727.0 | 2000.4 | 2271.1 | 2656.0 | 3149.2 | 3393.5 | 3676.4 |
| 15° | 520.0 | 594.0 | 796.8 | 1080.9 | 1436.2 | 1776.9 | 2073.3 | 2459.4 | 2985.0 | 3284.2 | 3578.4 |
| 17.5° | 320.5 | 354.7 | 465.1 | 698.2 | 1071.4 | 1502.3 | 1908.5 | 2392.7 | 3008.5 | 3372.7 | 3687.6 |
| 20° | 255.5 | 269.0 | 304.3 | 412.4 | 710.0 | 1199.7 | 1723.1 | 2379.2 | 3200.7 | 3649.0 | 3986.9 |
| 22.5° | 221.9 | 234.8 | 258.3 | 299.8 | 446.6 | 898.2 | 1547.1 | 2391.6 | 3476.4 | 4063.1 | 4457.6 |
| 25° | 195.6 | 206.8 | 229.2 | 263.4 | 327.2 | 632.6 | 1358.8 | 2446.5 | 3835.6 | 4576.9 | 4996.1 |
| 27.5° | 174.8 | 184.4 | 205.1 | 236.5 | 280.7 | 441.6 | 1145.4 | 2513.2 | 4261.4 | 5102.5 | 5516.1 |
| 30° | 155.8 | 164.2 | 182.7 | 211.8 | 243.8 | 339.6 | 911.1 | 2558.5 | 4687.9 | 5516.1 | 5887.6 |
| 32.5° | 139.5 | 145.7 | 162.5 | 187.2 | 211.8 | 270.6 | 692.6 | 2551.3 | 5004.5 | 5860.1 | 6154.9 |
| 35° | 122.7 | 128.9 | 143.4 | 164.7 | 184.4 | 223.6 | 544.7 | 2415.1 | 5280.2 | 6217.1 | 6460.8 |
| 37.5° | 104.2 | 112.1 | 126.1 | 145.1 | 158.6 | 196.7 | 440.4 | 2250.9 | 5559.8 | 6625.0 | 6802.1 |
| 40° | 88.5 | 96.4 | 108.7 | 129.4 | 137.8 | 186.6 | 338.4 | 2050.9 | 5874.1 | 7081.1 | 7176.4 |
| 42.5° | 73.4 | 80.7 | 93.6 | 111.5 | 130.0 | 160.8 | 250.5 | 1822.2 | 6176.1 | 7471.1 | 7517.6 |
| 45° | 59.4 | 66.7 | 80.1 | 98.1 | 139.0 | 133.4 | 193.9 | 1577.4 | 6419.9 | 7795.6 | 7810.7 |
| 47.5° | 47.1 | 53.8 | 67.8 | 92.5 | 129.4 | 106.5 | 138.4 | 1385.2 | 6624.4 | 8048.8 | 8009.0 |
| 50° | 36.4 | 42.0 | 56.6 | 105.9 | 113.2 | 88.0 | 104.8 | 1321.3 | 6807.7 | 8205.7 | 8102.6 |
| 52.5° | 28.6 | 33.6 | 46.5 | 99.2 | 88.0 | 72.8 | 88.0 | 1381.3 | 7058.7 | 8335.7 | 8155.3 |
| 55° | 23.0 | 28.0 | 36.4 | 56.6 | 60.0 | 61.6 | 75.1 | 1437.3 | 7491.8 | 8640.6 | 8466.3 |
| 57.5° | 19.1 | 24.1 | 29.7 | 39.8 | 45.4 | 52.1 | 66.7 | 1443.5 | 8002.3 | 9147.1 | 8982.4 |
| 59° | 17.4 | 21.9 | 26.9 | 35.3 | 39.8 | 47.6 | 62.8 | 1409.8 | 8182.2 | 9331.5 | 9249.1 |
| 60° | 16.3 | 20.7 | 25.2 | 32.5 | 37.0 | 44.8 | 60.5 | 1377.9 | 8190.0 | 9324.7 | 9362.8 |
| 62.5° | 14.0 | 18.5 | 22.4 | 27.5 | 31.4 | 38.1 | 54.4 | 1259.7 | 7858.3 | 9019.4 | 9294.5 |
| 65° | 12.3 | 16.3 | 20.2 | 23.5 | 26.9 | 34.2 | 49.3 | 1043.9 | 7291.8 | 8526.8 | 8826.6 |
| 67.5° | 11.2 | 14.0 | 18.5 | 20.7 | 24.1 | 30.3 | 43.7 | 744.1 | 6584.1 | 7924.4 | 8118.9 |
| 70° | 10.1 | 13.4 | 16.8 | 19.1 | 21.9 | 26.3 | 37.5 | 427.5 | 5559.8 | 7042.4 | 7180.9 |
| 72.5° | 9.5 | 12.9 | 15.1 | 17.9 | 19.6 | 23.5 | 34.2 | 201.2 | 4070.9 | 5641.6 | 6003.0 |
| 75° | 8.4 | 11.8 | 14.0 | 16.8 | 18.5 | 21.3 | 29.1 | 96.4 | 2707.6 | 4082.7 | 4493.4 |
| 77.5° | 5.0 | 9.5 | 12.9 | 15.1 | 16.3 | 18.5 | 24.1 | 55.5 | 1728.1 | 2825.8 | 3328.5 |
| 80° | 0.0 | 3.4 | 9.5 | 12.9 | 14.0 | 15.7 | 18.5 | 43.7 | 924.6 | 1614.4 | 1937.7 |
| 82.5° | 0.0 | 0.0 | 6.7 | 10.1 | 9.5 | 10.6 | 14.0 | 27.5 | 416.9 | 1055.1 | 1189.1 |
| 85° | 0.0 | 0.0 | 2.2 | 7.8 | 6.7 | 5.0 | 9.5 | 9.5 | 91.3 | 534.0 | 666.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.6 | 3.4 | 2.2 | 3.9 | 1.1 | 0.6 | 39.8 | 161.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P364056

CATALOG NUMBER: NVN-SA2D-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 | 3852.9 |
| 2.5° | 4355.6 | 4397.0 | 4467.1 | 4500.2 | 4483.9 | 4415.0 | 4332.6 | 4248.6 | 4199.2 | 4218.9 |
| 5° | 4623.4 | 4836.9 | 4960.2 | 5001.1 | 4932.7 | 4778.1 | 4575.8 | 4309.1 | 4214.4 | 4188.6 |
| 7.5° | 4623.4 | 5025.2 | 5279.6 | 5324.4 | 5172.0 | 4868.9 | 4489.5 | 4073.2 | 3934.8 | 3884.3 |
| 10° | 4460.9 | 5007.8 | 5362.5 | 5433.7 | 5220.8 | 4767.4 | 4259.2 | 3784.0 | 3619.8 | 3567.7 |
| 12.5° | 4277.7 | 4866.6 | 5240.4 | 5338.4 | 5163.6 | 4666.6 | 4099.5 | 3588.5 | 3395.1 | 3349.8 |
| 15° | 4165.1 | 4692.9 | 5002.2 | 5073.4 | 4999.4 | 4607.7 | 4061.4 | 3529.6 | 3302.1 | 3258.4 |
| 17.5° | 4205.4 | 4558.4 | 4669.9 | 4711.4 | 4761.3 | 4587.0 | 4165.1 | 3658.5 | 3370.5 | 3329.0 |
| 20° | 4357.3 | 4416.7 | 4358.9 | 4411.1 | 4545.5 | 4607.2 | 4412.2 | 3970.1 | 3624.3 | 3568.9 |
| 22.5° | 4615.0 | 4343.3 | 4181.3 | 4202.0 | 4365.7 | 4673.9 | 4789.9 | 4415.0 | 4016.0 | 3946.5 |
| 25° | 4915.4 | 4402.6 | 4082.7 | 4064.2 | 4232.3 | 4761.8 | 5135.0 | 4899.1 | 4479.4 | 4402.6 |
| 27.5° | 5293.0 | 4536.0 | 4062.5 | 4044.0 | 4185.8 | 4844.2 | 5421.9 | 5377.7 | 4967.5 | 4836.4 |
| 30° | 5584.4 | 4667.1 | 4122.5 | 4079.9 | 4232.3 | 4901.4 | 5652.2 | 5783.9 | 5356.4 | 5269.5 |
| 32.5° | 5793.4 | 4821.8 | 4220.0 | 4158.3 | 4363.4 | 5000.0 | 5829.9 | 6156.0 | 5716.1 | 5584.4 |
| 35° | 5952.6 | 4989.9 | 4377.4 | 4276.0 | 4543.9 | 5149.6 | 5996.3 | 6552.1 | 6098.8 | 5954.8 |
| 37.5° | 6101.6 | 5225.8 | 4623.4 | 4502.4 | 4826.8 | 5390.5 | 6172.2 | 7001.5 | 6526.9 | 6354.9 |
| 40° | 6309.5 | 5493.1 | 5002.8 | 4895.2 | 5302.6 | 5718.9 | 6391.9 | 7470.0 | 7013.9 | 6797.6 |
| 42.5° | 6517.4 | 5780.0 | 5391.1 | 5420.2 | 5896.0 | 6117.9 | 6675.4 | 7965.3 | 7494.6 | 7263.8 |
| 45° | 6707.4 | 6075.8 | 5944.2 | 6078.6 | 6446.8 | 6555.5 | 6957.3 | 8251.7 | 7878.5 | 7655.5 |
| 47.5° | 6876.6 | 6445.7 | 6493.9 | 6851.9 | 7073.3 | 6951.7 | 7168.0 | 8498.8 | 8164.3 | 7967.6 |
| 50° | 7073.3 | 6924.2 | 7218.4 | 7724.9 | 7794.4 | 7310.3 | 7359.6 | 8791.3 | 8498.2 | 8340.2 |
| 52.5° | 7288.4 | 7428.5 | 8020.8 | 8467.4 | 8445.0 | 7699.7 | 7552.4 | 9119.1 | 8956.0 | 8807.5 |
| 55° | 7532.8 | 7835.9 | 8727.4 | 9162.2 | 9143.2 | 8134.6 | 7871.8 | 9524.2 | 9529.8 | 9395.3 |
| 57.5° | 7895.3 | 8186.7 | 9207.1 | 9724.3 | 9756.2 | 8636.6 | 8413.1 | 9978.1 | 10048.7 | 9959.1 |
| 59° | 8155.3 | 8414.2 | 9397.0 | 9959.1 | 10089.1 | 9025.0 | 8808.7 | 10241.5 | 10195.0 | 10113.2 |
| 60° | 8348.1 | 8558.7 | 9491.2 | 10081.8 | 10282.4 | 9288.3 | 9100.6 | 10396.1 | 10212.3 | 10113.2 |
| 62.5° | 8824.9 | 8873.7 | 9661.0 | 10220.7 | 10504.8 | 9873.3 | 9922.1 | 10659.5 | 10091.9 | 9929.9 |
| 65° | 9047.4 | 9072.6 | 9658.7 | 9971.9 | 10289.7 | 10328.9 | 10667.3 | 10667.3 | 9797.7 | 9548.9 |
| 67.5° | 8954.4 | 8832.8 | 9179.6 | 9147.1 | 9464.3 | 10058.2 | 10947.5 | 10276.2 | 9235.1 | 8913.4 |
| 70° | 8197.9 | 7730.0 | 7575.9 | 7589.9 | 7832.5 | 8748.7 | 10392.8 | 9125.3 | 8170.4 | 7794.4 |
| 72.5° | 6821.1 | 5698.7 | 5318.3 | 5752.5 | 5815.8 | 6723.6 | 8856.9 | 6872.1 | 6025.4 | 5673.0 |
| 75° | 5486.4 | 4017.1 | 3398.5 | 3856.9 | 3964.5 | 4920.4 | 6851.4 | 4279.9 | 3519.5 | 3245.0 |
| 77.5° | 3941.5 | 2883.5 | 2438.6 | 2406.7 | 2545.7 | 3120.6 | 4861.6 | 2154.0 | 1796.5 | 1676.6 |
| 80° | 2239.1 | 1897.9 | 2043.6 | 1928.2 | 1998.2 | 1951.1 | 2309.8 | 944.7 | 773.8 | 723.4 |
| 82.5° | 1351.6 | 1121.8 | 1214.8 | 1011.4 | 1279.8 | 1114.5 | 889.8 | 302.6 | 262.8 | 249.9 |
| 85° | 879.2 | 613.0 | 319.4 | 214.1 | 441.0 | 712.2 | 198.9 | 82.4 | 63.3 | 50.4 |
| 87.5° | 303.1 | 156.3 | 15.7 | 6.7 | 47.1 | 132.8 | 7.3 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 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 (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 | | | |

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 | | | |

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

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 |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

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

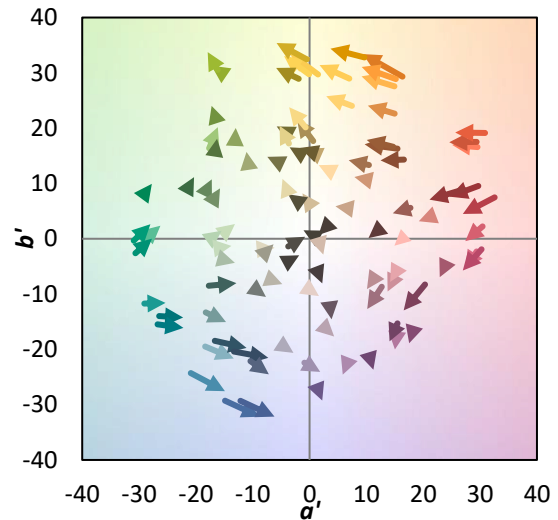
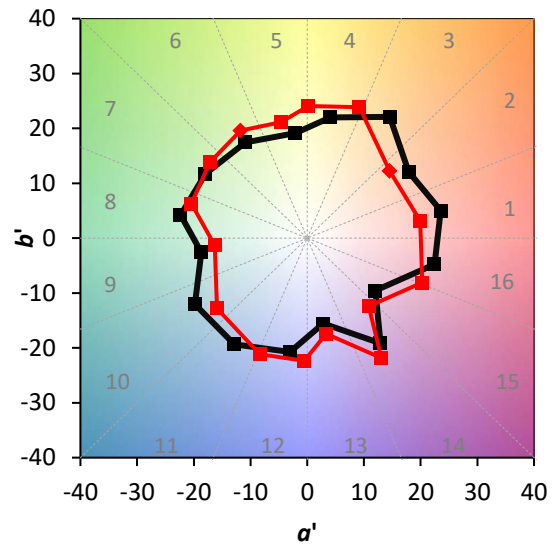
TM-30-18

Summary

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



Color Vector Graphics



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

TM-30-18

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)