

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P966639

Luminaire Tested: **NAV-SB4C-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-730-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23479.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

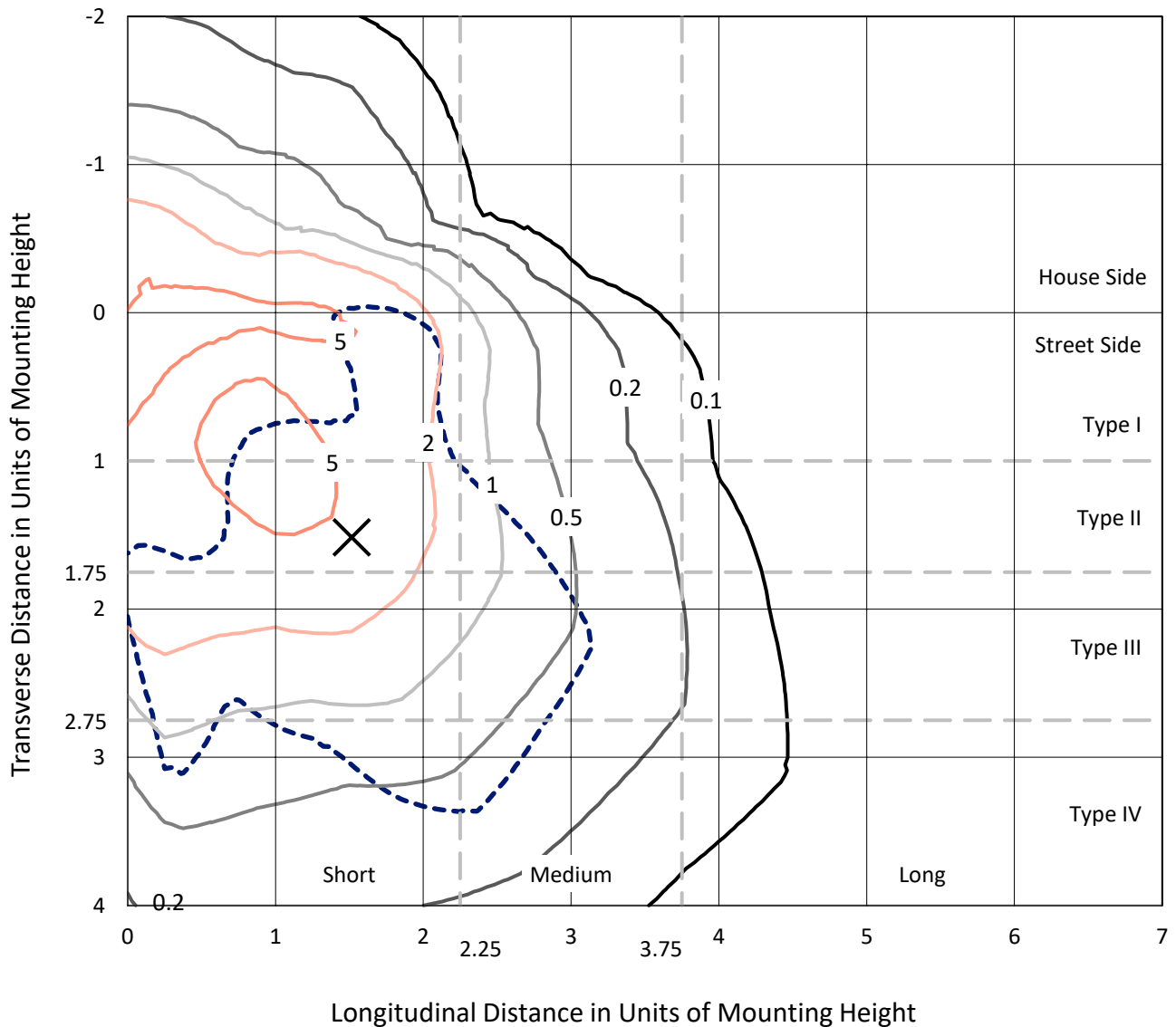
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966639
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Iso-Footcandle Lines of Horizontal Illumination

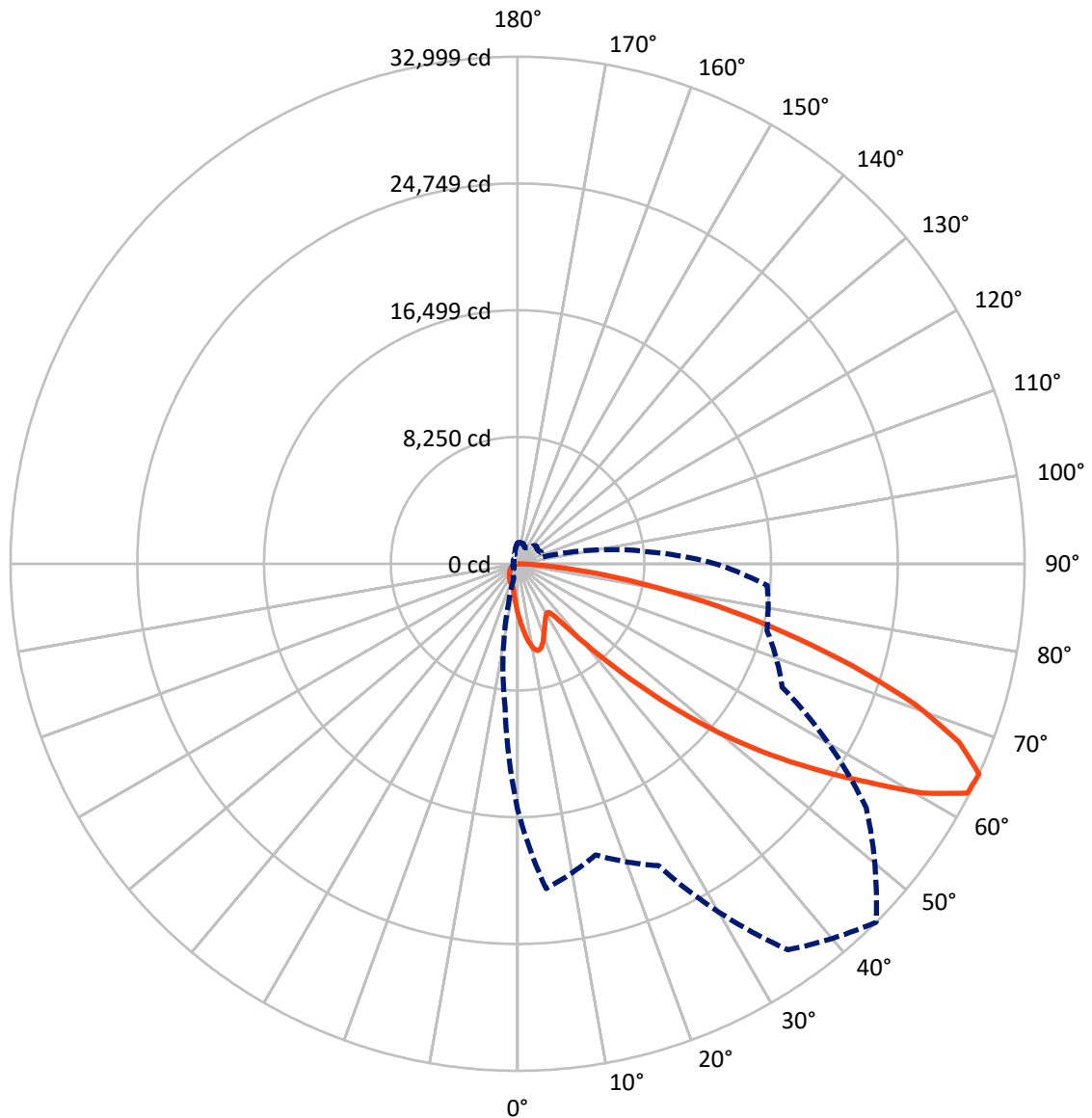
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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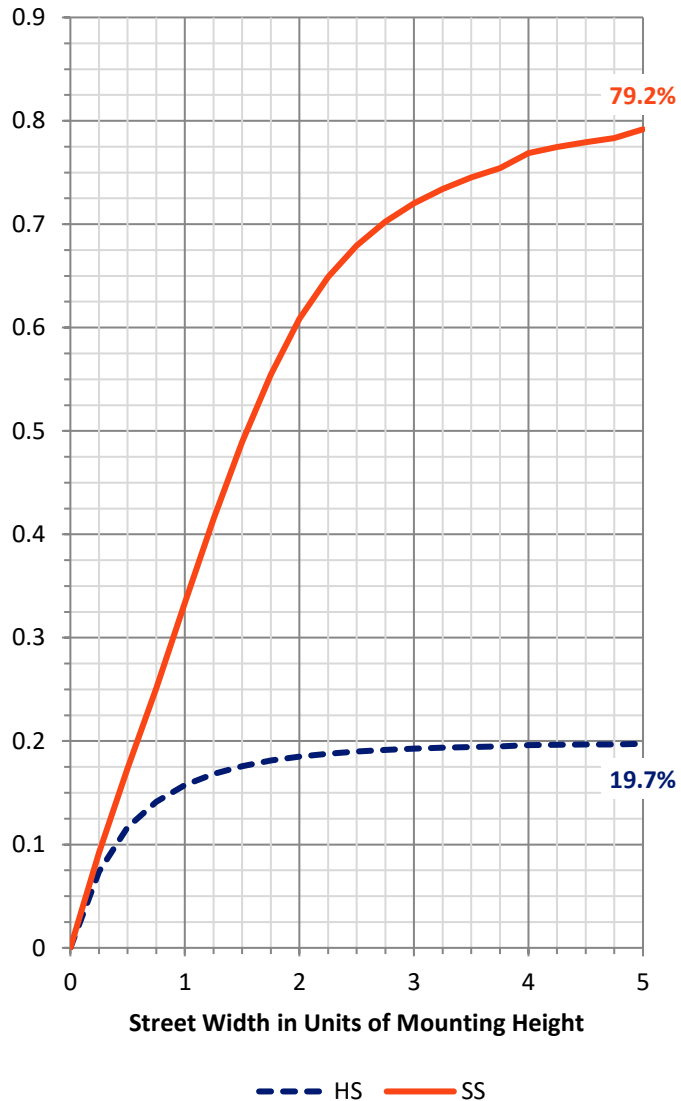
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4667.0 | 0.0 | 4667.0 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 18812.6 | 0.0 | 18812.6 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 23479.7 | 0.0 | 23479.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 320.1 | 1.4 |
| 10°-20° | 959.5 | 4.1 |
| 20°-30° | 1413.6 | 6.0 |
| 30°-40° | 1816.1 | 7.7 |
| 40°-50° | 2937.1 | 12.5 |
| 50°-60° | 5150.6 | 21.9 |
| 60°-70° | 6444.8 | 27.4 |
| 70°-80° | 3766.0 | 16.0 |
| 80°-90° | 671.9 | 2.9 |
| 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° | 23479.7 | 100.0 |
| 0°-180° | 23479.7 | 100.0 |

Coefficient of Utilization

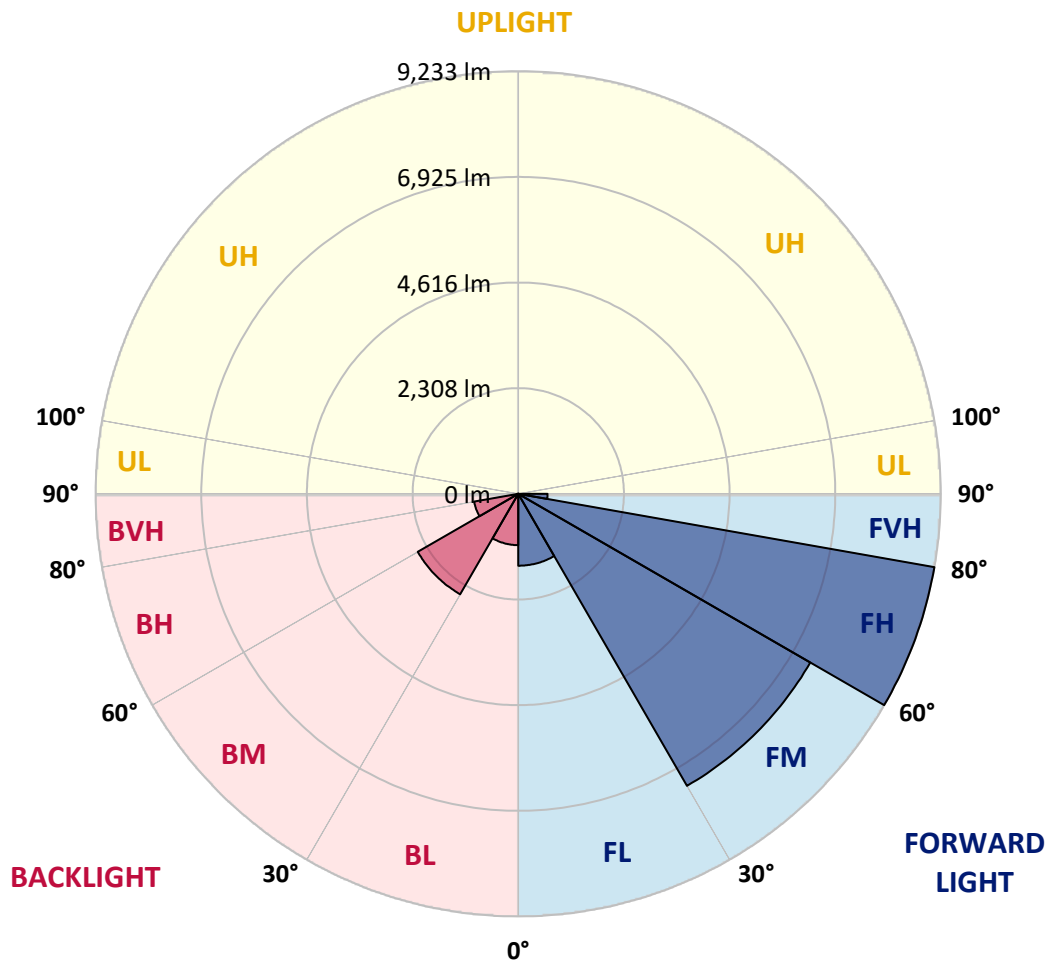


REPORT NUMBER: P966639
 CATALOG NUMBER: NAV-SB4C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1571.1 | 6.7 | | | |
| FM (30°-60°) | 7368.2 | 31.4 | | | |
| FH (60°-80°) | 9232.9 | 39.3 | | | G4/12000 |
| FVH (80°-90°) | 640.4 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1122.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2535.6 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 977.8 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 31.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 |
| 2.5° | 3642.6 | 3670.1 | 3731.6 | 3763.9 | 3814.0 | 3817.3 | 3817.3 | 3773.6 | 3772.0 | 3683.0 | 3673.4 |
| 5° | 4071.3 | 4136.0 | 4281.5 | 4432.0 | 4464.3 | 4472.4 | 4456.2 | 4368.9 | 4304.2 | 4131.1 | 4094.0 |
| 7.5° | 4496.7 | 4621.2 | 4842.8 | 5043.4 | 5108.1 | 5108.1 | 5069.2 | 4926.9 | 4794.2 | 4543.6 | 4449.7 |
| 10° | 4849.3 | 5006.2 | 5307.0 | 5531.8 | 5606.2 | 5590.1 | 5510.8 | 5331.3 | 5148.5 | 4844.5 | 4721.5 |
| 12.5° | 5082.2 | 5258.6 | 5588.5 | 5769.6 | 5845.7 | 5803.7 | 5713.0 | 5538.4 | 5345.9 | 5025.6 | 4886.5 |
| 15° | 5198.7 | 5383.1 | 5669.4 | 5764.8 | 5743.8 | 5700.1 | 5688.7 | 5604.7 | 5459.0 | 5159.8 | 5007.8 |
| 17.5° | 5248.8 | 5420.3 | 5619.3 | 5559.4 | 5381.5 | 5347.4 | 5460.7 | 5567.5 | 5531.8 | 5276.3 | 5133.9 |
| 20° | 5295.7 | 5439.7 | 5499.5 | 5234.3 | 4923.7 | 4892.9 | 5109.7 | 5413.7 | 5569.0 | 5384.6 | 5253.6 |
| 22.5° | 5360.4 | 5449.4 | 5326.4 | 4891.3 | 4556.5 | 4485.3 | 4724.7 | 5182.5 | 5580.4 | 5522.2 | 5391.2 |
| 25° | 5449.4 | 5473.6 | 5135.6 | 4566.2 | 4229.8 | 4158.6 | 4381.8 | 4925.3 | 5560.9 | 5671.0 | 5559.4 |
| 27.5° | 5556.1 | 5506.0 | 4952.8 | 4294.4 | 3969.3 | 3903.0 | 4126.2 | 4677.8 | 5506.0 | 5819.7 | 5740.5 |
| 30° | 5695.2 | 5548.0 | 4771.7 | 4084.2 | 3783.4 | 3734.8 | 3949.9 | 4464.3 | 5438.0 | 6009.1 | 5965.4 |
| 32.5° | 5835.9 | 5565.9 | 4603.4 | 3961.3 | 3741.2 | 3759.1 | 3935.4 | 4349.5 | 5363.6 | 6190.2 | 6211.2 |
| 35° | 5988.0 | 5622.4 | 4521.0 | 4082.6 | 4092.3 | 4247.6 | 4320.4 | 4456.2 | 5352.3 | 6436.1 | 6518.6 |
| 37.5° | 6195.0 | 5748.6 | 4619.6 | 4685.9 | 5022.4 | 5344.2 | 5284.4 | 4978.6 | 5483.3 | 6803.2 | 6956.9 |
| 40° | 6492.7 | 5970.2 | 5049.9 | 5713.0 | 6403.7 | 6926.1 | 6698.1 | 5928.2 | 5884.5 | 7332.1 | 7561.8 |
| 42.5° | 6926.1 | 6322.8 | 5813.3 | 6968.3 | 8139.3 | 8999.8 | 8388.4 | 7152.7 | 6586.4 | 8087.6 | 8380.3 |
| 45° | 7566.7 | 6893.8 | 6736.9 | 8293.0 | 10279.2 | 11634.7 | 10363.4 | 8457.9 | 7569.9 | 9231.0 | 9460.8 |
| 47.5° | 8454.7 | 7733.3 | 7602.2 | 9688.8 | 12880.2 | 14633.5 | 12553.5 | 9667.8 | 8689.2 | 10790.4 | 10843.8 |
| 50° | 9633.9 | 8863.9 | 8422.3 | 11215.8 | 15731.8 | 17690.7 | 14742.0 | 10835.7 | 9971.9 | 12695.8 | 12634.4 |
| 52.5° | 11189.9 | 10441.0 | 9378.3 | 12669.9 | 18664.4 | 20683.1 | 16940.1 | 11861.2 | 11563.5 | 14906.9 | 14780.7 |
| 55° | 13312.1 | 12813.8 | 10685.2 | 14057.8 | 21595.3 | 23693.2 | 19052.6 | 12828.4 | 13666.3 | 17533.8 | 16770.3 |
| 57.5° | 15945.3 | 16301.2 | 12569.6 | 15667.1 | 24230.2 | 26795.6 | 21174.8 | 14180.7 | 16396.6 | 20471.1 | 17925.2 |
| 60° | 17643.7 | 20938.6 | 16178.3 | 18046.5 | 27224.2 | 30303.9 | 24083.0 | 16752.5 | 19266.1 | 21524.2 | 17705.2 |
| 62.5° | 17232.9 | 22413.8 | 20500.2 | 21084.1 | 29977.3 | 32854.7 | 26933.1 | 19335.6 | 19806.4 | 19972.9 | 16010.1 |
| 65° | 15972.9 | 21223.2 | 19618.7 | 21674.5 | 30674.4 | 32998.7 | 27694.9 | 19002.5 | 16801.0 | 16306.1 | 12868.9 |
| 67.5° | 14238.9 | 19811.2 | 17524.0 | 20108.9 | 29414.3 | 30986.6 | 26276.4 | 16809.1 | 12983.7 | 12236.4 | 9336.2 |
| 70° | 12367.4 | 18248.7 | 16149.2 | 18352.2 | 27012.3 | 27479.7 | 23864.7 | 14784.0 | 9549.7 | 8263.9 | 5991.2 |
| 72.5° | 10591.4 | 16621.5 | 15207.8 | 16551.9 | 23808.1 | 22840.8 | 20725.1 | 12993.4 | 6953.6 | 5960.5 | 4258.9 |
| 75° | 8774.9 | 14221.1 | 13866.8 | 14413.6 | 19594.4 | 17991.5 | 17220.0 | 10758.0 | 5457.5 | 4312.3 | 2939.0 |
| 77.5° | 6770.8 | 11112.2 | 11927.5 | 11542.5 | 13792.5 | 13363.8 | 13347.7 | 8084.3 | 3987.1 | 2877.6 | 1842.3 |
| 80° | 4634.1 | 7744.6 | 9318.5 | 8142.5 | 8951.2 | 8732.9 | 10052.8 | 5423.5 | 2892.1 | 1732.4 | 1025.5 |
| 82.5° | 2723.8 | 4715.0 | 6486.2 | 3941.8 | 4949.5 | 5080.6 | 5986.4 | 2638.1 | 1701.6 | 399.5 | 223.2 |
| 85° | 1104.7 | 1861.7 | 2536.3 | 1543.1 | 2387.4 | 2013.8 | 2272.6 | 740.8 | 474.0 | 9.7 | 0.0 |
| 87.5° | 278.2 | 595.2 | 417.3 | 173.1 | 276.5 | 254.0 | 200.6 | 90.6 | 19.4 | 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: NAV-SB4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 |
| 2.5° | 3610.3 | 3573.0 | 3480.9 | 3388.6 | 3314.2 | 3214.0 | 3147.7 | 3068.4 | 2992.4 | 2924.4 | 2911.5 |
| 5° | 3992.0 | 3869.1 | 3700.9 | 3547.2 | 3390.3 | 3238.3 | 3087.8 | 2929.3 | 2783.7 | 2694.7 | 2638.1 |
| 7.5° | 4302.5 | 4085.9 | 3862.6 | 3666.8 | 3477.6 | 3299.7 | 3100.7 | 2908.2 | 2680.2 | 2558.9 | 2448.9 |
| 10° | 4533.9 | 4249.1 | 3956.4 | 3731.6 | 3540.8 | 3367.6 | 3199.4 | 3005.3 | 2730.4 | 2578.3 | 2413.4 |
| 12.5° | 4685.9 | 4347.8 | 4005.0 | 3747.7 | 3534.2 | 3400.0 | 3325.6 | 3249.6 | 2976.2 | 2798.2 | 2558.9 |
| 15° | 4791.1 | 4417.4 | 4038.9 | 3710.6 | 3448.5 | 3349.8 | 3424.2 | 3511.6 | 3336.9 | 3131.5 | 2819.3 |
| 17.5° | 4905.9 | 4508.0 | 4053.5 | 3610.3 | 3281.9 | 3239.8 | 3432.3 | 3634.5 | 3626.4 | 3422.7 | 3116.9 |
| 20° | 5027.2 | 4587.3 | 4043.7 | 3448.5 | 3079.7 | 3116.9 | 3362.8 | 3597.3 | 3696.0 | 3586.0 | 3314.2 |
| 22.5° | 5151.8 | 4663.2 | 4006.5 | 3238.3 | 2890.5 | 3006.9 | 3252.8 | 3458.2 | 3574.7 | 3540.8 | 3333.7 |
| 25° | 5308.7 | 4770.0 | 3951.6 | 3011.8 | 2733.6 | 2895.3 | 3125.0 | 3291.6 | 3372.5 | 3370.9 | 3228.5 |
| 27.5° | 5496.3 | 4912.3 | 3922.5 | 2829.0 | 2622.0 | 2769.1 | 2973.0 | 3121.7 | 3178.4 | 3178.4 | 3065.2 |
| 30° | 5714.7 | 5080.6 | 3890.1 | 2709.3 | 2557.3 | 2638.1 | 2796.7 | 2942.3 | 2998.8 | 2998.8 | 2903.4 |
| 32.5° | 5957.3 | 5242.4 | 3812.5 | 2636.5 | 2508.8 | 2510.3 | 2610.7 | 2743.3 | 2811.3 | 2820.9 | 2752.9 |
| 35° | 6248.4 | 5415.4 | 3642.6 | 2578.3 | 2452.1 | 2385.8 | 2434.4 | 2544.4 | 2625.2 | 2646.2 | 2604.2 |
| 37.5° | 6630.1 | 5627.2 | 3400.0 | 2492.6 | 2364.8 | 2254.8 | 2266.2 | 2350.2 | 2439.2 | 2471.6 | 2444.0 |
| 40° | 7142.9 | 5876.4 | 3147.7 | 2369.6 | 2241.9 | 2110.9 | 2106.0 | 2167.5 | 2254.8 | 2290.4 | 2275.8 |
| 42.5° | 7820.6 | 6175.6 | 2906.7 | 2251.5 | 2093.0 | 1958.8 | 1950.7 | 1999.3 | 2075.2 | 2112.4 | 2106.0 |
| 45° | 8687.6 | 6542.8 | 2699.6 | 2159.4 | 1947.5 | 1814.9 | 1811.6 | 1852.1 | 1918.4 | 1957.1 | 1949.1 |
| 47.5° | 9892.7 | 6909.9 | 2558.9 | 2110.9 | 1832.6 | 1696.8 | 1703.2 | 1738.8 | 1798.7 | 1826.1 | 1814.9 |
| 50° | 11463.3 | 7021.6 | 2487.7 | 2110.9 | 1771.2 | 1591.6 | 1624.0 | 1653.1 | 1698.4 | 1714.5 | 1700.0 |
| 52.5° | 12970.8 | 6652.8 | 2423.0 | 2123.8 | 1779.3 | 1502.6 | 1572.2 | 1593.3 | 1632.1 | 1638.6 | 1617.6 |
| 55° | 13710.0 | 5719.5 | 2334.0 | 2127.0 | 1829.4 | 1426.6 | 1530.1 | 1569.0 | 1583.5 | 1581.9 | 1546.3 |
| 57.5° | 13456.0 | 4624.5 | 2183.7 | 2114.1 | 1863.3 | 1378.1 | 1478.4 | 1552.8 | 1562.5 | 1548.0 | 1481.6 |
| 60° | 12564.8 | 3404.8 | 2068.8 | 2018.6 | 1850.4 | 1363.6 | 1399.1 | 1517.2 | 1531.8 | 1512.4 | 1404.0 |
| 62.5° | 11070.2 | 2363.1 | 1979.8 | 1808.4 | 1793.9 | 1358.7 | 1274.6 | 1439.6 | 1475.2 | 1447.7 | 1289.1 |
| 65° | 8715.1 | 1669.3 | 1704.9 | 1585.2 | 1670.9 | 1332.8 | 1145.2 | 1345.7 | 1394.3 | 1352.3 | 1129.0 |
| 67.5° | 5897.4 | 1205.0 | 1381.4 | 1436.3 | 1471.9 | 1274.6 | 1051.3 | 1239.0 | 1303.7 | 1248.8 | 943.0 |
| 70° | 3184.9 | 845.9 | 912.2 | 1209.9 | 1250.3 | 1174.3 | 967.3 | 1130.7 | 1205.0 | 1145.2 | 768.3 |
| 72.5° | 1881.2 | 608.1 | 638.9 | 972.1 | 1041.7 | 1033.6 | 873.4 | 1004.5 | 1095.0 | 1023.9 | 624.3 |
| 75° | 1036.8 | 410.8 | 456.1 | 705.2 | 845.9 | 797.4 | 750.5 | 850.9 | 943.0 | 873.4 | 482.1 |
| 77.5° | 464.2 | 245.9 | 317.0 | 462.6 | 664.8 | 546.7 | 580.7 | 663.2 | 748.9 | 676.1 | 321.8 |
| 80° | 179.6 | 137.5 | 210.2 | 252.4 | 483.6 | 302.5 | 373.6 | 488.5 | 549.9 | 491.7 | 195.7 |
| 82.5° | 22.7 | 61.5 | 90.6 | 98.7 | 281.5 | 160.1 | 216.8 | 307.3 | 302.5 | 262.0 | 98.7 |
| 85° | 0.0 | 11.3 | 12.9 | 6.5 | 121.4 | 58.2 | 71.1 | 100.2 | 93.8 | 71.1 | 8.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 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: NAV-SB4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 | 3251.2 |
| 2.5° | 2832.3 | 2774.1 | 2745.0 | 2720.7 | 2743.3 | 2756.2 | 2756.2 | 2811.3 | 2843.6 | 2856.5 | 2947.1 |
| 5° | 2495.8 | 2387.4 | 2314.7 | 2271.0 | 2285.5 | 2301.7 | 2319.5 | 2389.1 | 2435.9 | 2466.7 | 2607.4 |
| 7.5° | 2230.5 | 2065.6 | 1963.7 | 1910.3 | 1918.4 | 1929.7 | 1944.2 | 2012.2 | 2059.1 | 2099.5 | 2256.4 |
| 10° | 2099.5 | 1866.6 | 1732.4 | 1667.7 | 1656.3 | 1649.8 | 1645.0 | 1685.4 | 1721.0 | 1753.4 | 1908.7 |
| 12.5° | 2106.0 | 1780.8 | 1617.6 | 1538.2 | 1504.3 | 1465.4 | 1434.7 | 1441.1 | 1463.8 | 1504.3 | 1603.0 |
| 15° | 2188.5 | 1753.4 | 1557.7 | 1459.0 | 1402.4 | 1357.1 | 1319.9 | 1311.8 | 1319.9 | 1326.4 | 1387.8 |
| 17.5° | 2300.1 | 1750.2 | 1505.9 | 1382.9 | 1324.7 | 1287.5 | 1253.6 | 1242.2 | 1243.8 | 1251.9 | 1268.1 |
| 20° | 2389.1 | 1740.4 | 1447.7 | 1310.2 | 1258.4 | 1226.1 | 1192.1 | 1180.8 | 1184.0 | 1185.6 | 1203.5 |
| 22.5° | 2435.9 | 1725.9 | 1382.9 | 1237.4 | 1193.7 | 1161.3 | 1130.7 | 1129.0 | 1129.0 | 1138.7 | 1151.7 |
| 25° | 2435.9 | 1695.1 | 1324.7 | 1167.9 | 1129.0 | 1099.9 | 1062.7 | 1069.2 | 1072.4 | 1085.4 | 1104.7 |
| 27.5° | 2377.7 | 1636.9 | 1277.9 | 1108.0 | 1067.5 | 1038.4 | 1004.5 | 1012.6 | 1017.4 | 1032.0 | 1056.3 |
| 30° | 2303.3 | 1567.3 | 1224.5 | 1051.3 | 1004.5 | 983.5 | 954.4 | 957.6 | 964.0 | 980.2 | 1007.7 |
| 32.5° | 2224.0 | 1484.9 | 1180.8 | 994.8 | 947.8 | 931.7 | 899.3 | 904.2 | 910.6 | 928.4 | 959.2 |
| 35° | 2136.7 | 1387.8 | 1129.0 | 943.0 | 896.1 | 883.1 | 845.9 | 849.2 | 858.8 | 878.3 | 909.1 |
| 37.5° | 2044.6 | 1308.5 | 1077.3 | 892.9 | 844.3 | 831.4 | 792.5 | 795.8 | 807.1 | 829.7 | 858.8 |
| 40° | 1954.0 | 1230.9 | 1022.2 | 839.5 | 791.0 | 779.6 | 737.6 | 740.8 | 753.8 | 778.0 | 808.7 |
| 42.5° | 1855.2 | 1171.1 | 951.1 | 784.5 | 732.8 | 721.4 | 682.5 | 687.5 | 702.0 | 726.2 | 757.0 |
| 45° | 1737.2 | 1132.2 | 871.9 | 732.8 | 674.4 | 663.2 | 627.6 | 637.3 | 653.4 | 677.7 | 710.1 |
| 47.5° | 1615.9 | 1116.1 | 805.5 | 677.7 | 614.7 | 605.0 | 575.8 | 592.0 | 609.8 | 629.2 | 664.8 |
| 50° | 1499.5 | 1095.0 | 737.6 | 626.0 | 562.9 | 553.2 | 533.8 | 554.8 | 572.6 | 590.4 | 624.3 |
| 52.5° | 1366.8 | 1049.8 | 676.1 | 580.7 | 519.3 | 516.0 | 506.2 | 525.7 | 541.8 | 558.0 | 587.1 |
| 55° | 1229.3 | 976.9 | 622.8 | 540.3 | 482.1 | 485.2 | 480.4 | 496.6 | 509.5 | 524.1 | 549.9 |
| 57.5° | 1109.6 | 884.8 | 580.7 | 496.6 | 449.7 | 459.4 | 452.9 | 460.9 | 469.0 | 486.9 | 507.9 |
| 60° | 988.3 | 774.8 | 533.8 | 444.8 | 417.3 | 428.7 | 410.8 | 409.2 | 412.5 | 417.3 | 456.1 |
| 62.5° | 824.9 | 659.9 | 475.5 | 399.5 | 381.7 | 386.6 | 352.6 | 326.8 | 326.8 | 331.6 | 389.8 |
| 65° | 663.2 | 553.2 | 410.8 | 347.8 | 333.2 | 329.9 | 281.5 | 245.9 | 242.6 | 257.2 | 307.3 |
| 67.5° | 545.1 | 459.4 | 346.1 | 289.6 | 279.8 | 283.1 | 247.4 | 211.9 | 208.7 | 224.8 | 262.0 |
| 70° | 451.3 | 370.4 | 276.5 | 223.2 | 232.9 | 247.4 | 211.9 | 177.9 | 173.1 | 187.7 | 223.2 |
| 72.5° | 359.1 | 289.6 | 211.9 | 165.0 | 192.5 | 210.2 | 173.1 | 140.7 | 137.5 | 150.5 | 184.4 |
| 75° | 263.6 | 207.0 | 143.9 | 119.7 | 148.8 | 165.0 | 126.2 | 100.2 | 95.4 | 106.8 | 140.7 |
| 77.5° | 163.4 | 116.4 | 90.6 | 71.1 | 101.9 | 110.0 | 66.3 | 58.2 | 56.6 | 64.7 | 89.0 |
| 80° | 76.1 | 50.1 | 43.7 | 24.3 | 37.2 | 43.7 | 27.5 | 30.7 | 32.4 | 38.8 | 55.0 |
| 82.5° | 21.0 | 8.1 | 1.6 | 0.0 | 0.0 | 12.9 | 6.5 | 12.9 | 16.2 | 24.3 | 35.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 8.1 | 14.6 | 25.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 12.9 |
| 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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| 52.5° | 587.1 | 546.7 | 553.2 | 626.0 | 826.6 | 4516.0 | 9675.9 | 11189.9 |
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| 57.5° | 501.4 | 459.4 | 459.4 | 511.2 | 723.0 | 3988.8 | 11655.7 | 15945.3 |
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| 65° | 333.2 | 329.9 | 321.8 | 467.5 | 666.5 | 985.0 | 9399.4 | 15972.9 |
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| 70° | 241.0 | 223.2 | 223.2 | 370.4 | 307.3 | 428.7 | 5127.5 | 12367.4 |
| 72.5° | 202.2 | 182.8 | 169.8 | 296.0 | 229.7 | 313.8 | 3204.3 | 10591.4 |
| 75° | 161.7 | 147.2 | 131.0 | 195.7 | 171.5 | 237.8 | 1861.7 | 8774.9 |
| 77.5° | 116.4 | 110.0 | 92.1 | 143.9 | 124.5 | 171.5 | 1108.0 | 6770.8 |
| 80° | 59.9 | 61.5 | 58.2 | 82.5 | 84.2 | 116.4 | 630.8 | 4634.1 |
| 82.5° | 35.6 | 27.5 | 30.7 | 40.5 | 48.5 | 66.3 | 237.8 | 2723.8 |
| 85° | 22.7 | 14.6 | 14.6 | 19.4 | 24.3 | 25.8 | 72.8 | 1104.7 |
| 87.5° | 11.3 | 4.8 | 6.5 | 9.7 | 8.1 | 6.5 | 3.3 | 278.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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