

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: P968220

Luminaire Tested: **NAV-SB5B-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968220
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-SB5B-730-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA 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: 22251.7 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

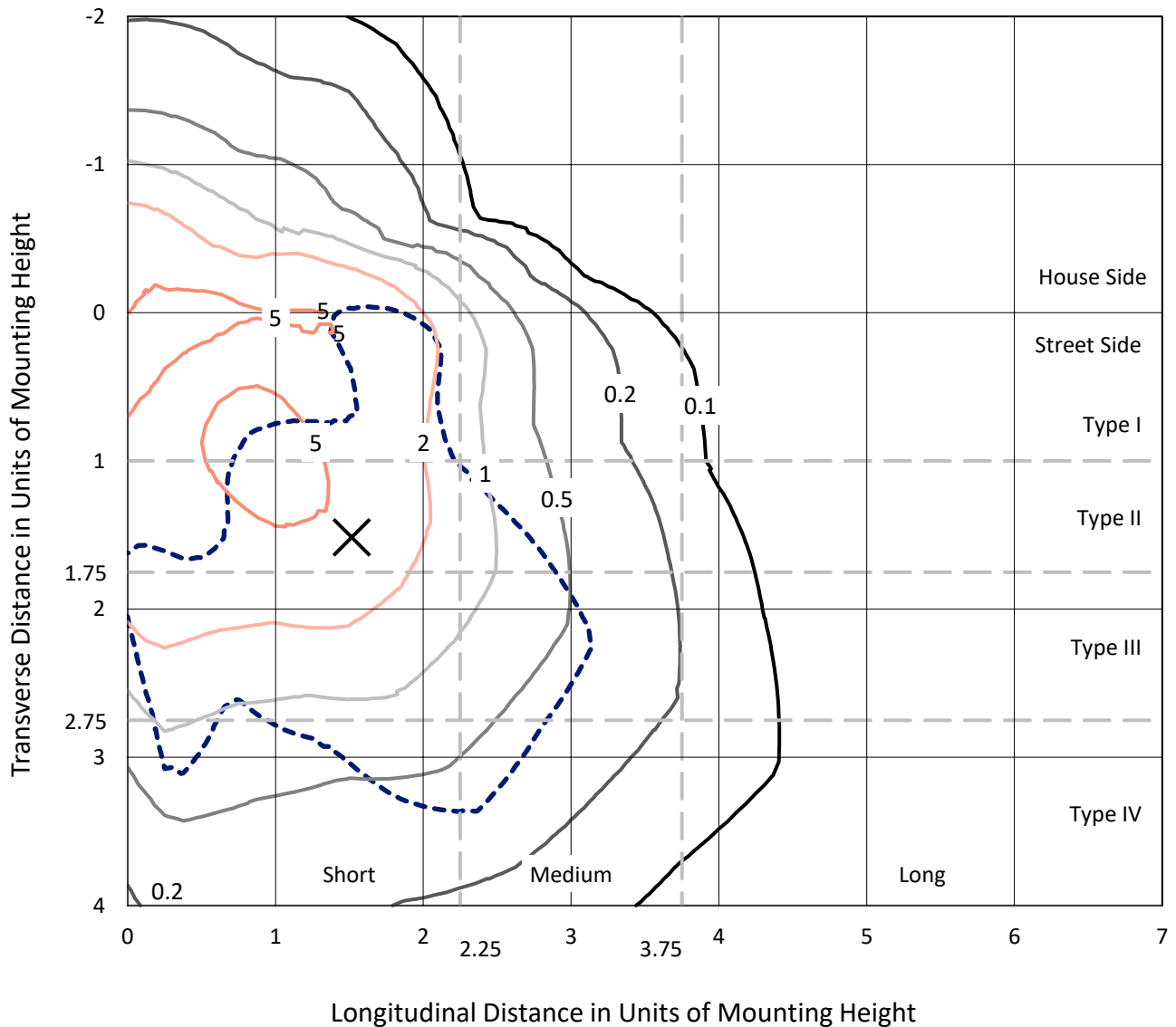
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968220
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Iso-Footcandle Lines of Horizontal Illumination

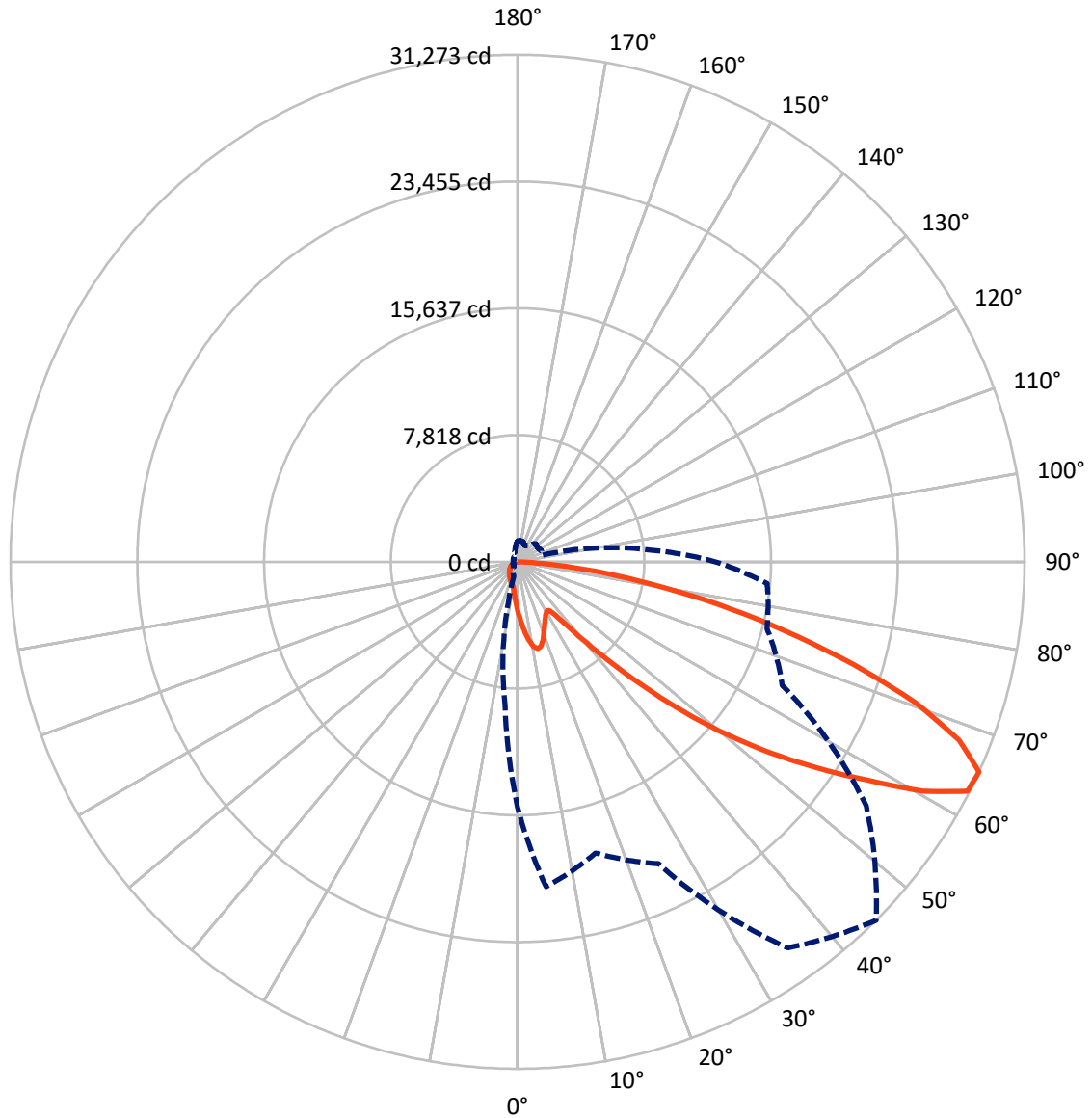
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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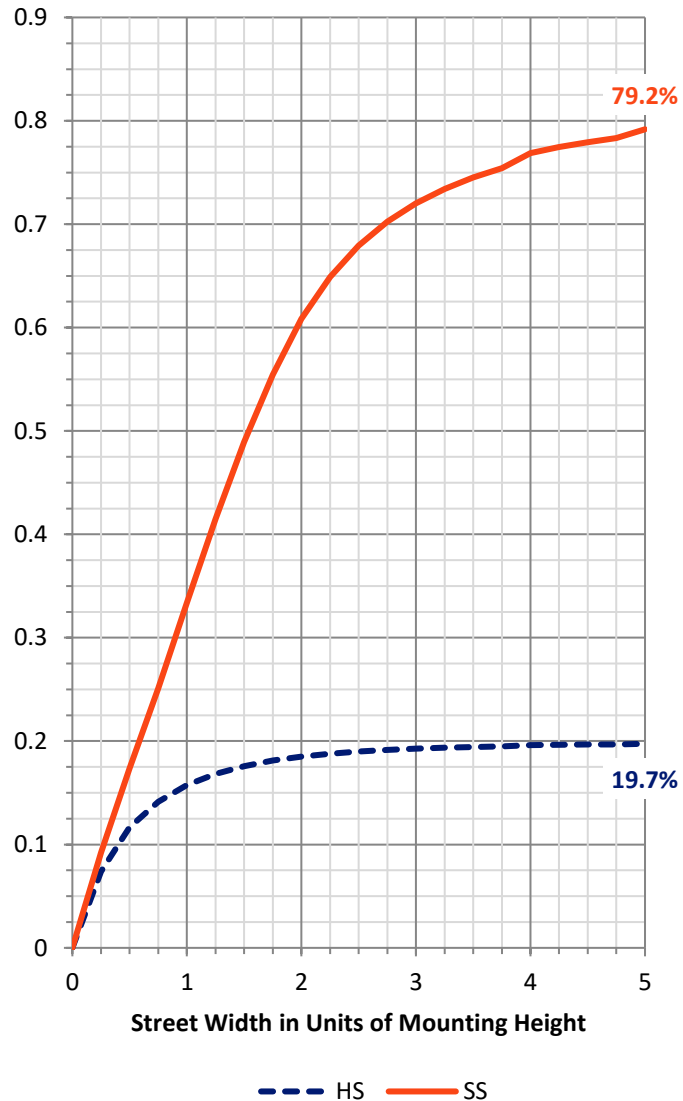
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4423.0 | 0.0 | 4423.0 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 17828.8 | 0.0 | 17828.8 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 22251.7 | 0.0 | 22251.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.4 | 1.4 |
| 10°-20° | 909.3 | 4.1 |
| 20°-30° | 1339.7 | 6.0 |
| 30°-40° | 1721.1 | 7.7 |
| 40°-50° | 2783.5 | 12.5 |
| 50°-60° | 4881.2 | 21.9 |
| 60°-70° | 6107.7 | 27.4 |
| 70°-80° | 3569.1 | 16.0 |
| 80°-90° | 636.8 | 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° | 22251.7 | 100.0 |
| 0°-180° | 22251.7 | 100.0 |

Coefficient of Utilization



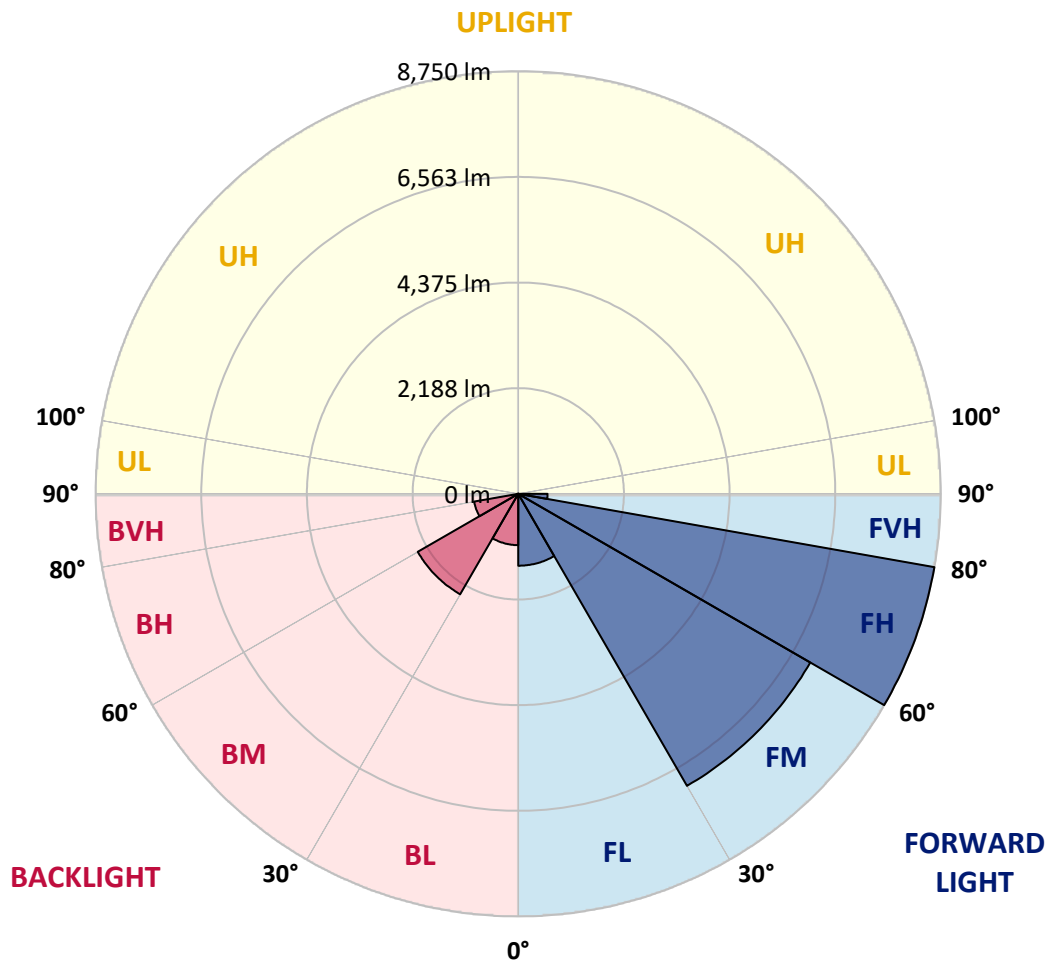
REPORT NUMBER: P968220
 CATALOG NUMBER: NAV-SB5B-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1488.9 | 6.7 | | | |
| FM (30°-60°) | 6982.9 | 31.4 | | | |
| FH (60°-80°) | 8750.1 | 39.3 | | | G4/12000 |
| FVH (80°-90°) | 606.9 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1063.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2403.0 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 926.7 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.8 | 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



REPORT NUMBER: P968220
 CATALOG NUMBER: NAV-SB5B-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 |
| 2.5° | 3452.1 | 3478.1 | 3536.5 | 3567.1 | 3614.6 | 3617.6 | 3617.6 | 3576.3 | 3574.8 | 3490.4 | 3481.2 |
| 5° | 3858.3 | 3919.7 | 4057.7 | 4200.1 | 4230.8 | 4238.5 | 4223.2 | 4140.4 | 4079.1 | 3915.1 | 3879.8 |
| 7.5° | 4261.5 | 4379.5 | 4589.5 | 4779.6 | 4841.0 | 4841.0 | 4804.2 | 4669.3 | 4543.5 | 4305.9 | 4217.1 |
| 10° | 4595.7 | 4744.3 | 5029.5 | 5242.6 | 5313.1 | 5297.7 | 5222.6 | 5052.4 | 4879.3 | 4591.1 | 4474.5 |
| 12.5° | 4816.4 | 4983.4 | 5296.2 | 5467.9 | 5539.9 | 5500.0 | 5414.3 | 5248.7 | 5066.3 | 4762.8 | 4631.0 |
| 15° | 4926.8 | 5101.5 | 5372.8 | 5463.2 | 5443.4 | 5402.0 | 5391.3 | 5311.5 | 5173.6 | 4890.0 | 4745.9 |
| 17.5° | 4974.3 | 5136.8 | 5325.3 | 5268.6 | 5100.0 | 5067.8 | 5175.1 | 5276.3 | 5242.6 | 5000.4 | 4865.5 |
| 20° | 5018.7 | 5155.1 | 5211.9 | 4960.5 | 4666.2 | 4637.1 | 4842.5 | 5130.6 | 5277.8 | 5103.1 | 4978.9 |
| 22.5° | 5080.1 | 5164.4 | 5047.9 | 4635.6 | 4318.2 | 4250.8 | 4477.6 | 4911.5 | 5288.6 | 5233.3 | 5109.2 |
| 25° | 5164.4 | 5187.4 | 4867.0 | 4327.4 | 4008.6 | 3941.1 | 4152.7 | 4667.7 | 5270.1 | 5374.4 | 5268.6 |
| 27.5° | 5265.5 | 5218.1 | 4693.8 | 4069.9 | 3761.7 | 3698.9 | 3910.5 | 4433.2 | 5218.1 | 5515.4 | 5440.3 |
| 30° | 5397.3 | 5257.8 | 4522.1 | 3870.6 | 3585.4 | 3539.5 | 3743.4 | 4230.8 | 5153.6 | 5694.8 | 5653.4 |
| 32.5° | 5530.7 | 5274.8 | 4362.7 | 3754.1 | 3545.6 | 3562.5 | 3729.6 | 4122.0 | 5083.2 | 5866.5 | 5886.4 |
| 35° | 5674.8 | 5328.4 | 4284.5 | 3869.1 | 3878.3 | 4025.4 | 4094.4 | 4223.2 | 5072.4 | 6099.5 | 6177.7 |
| 37.5° | 5871.1 | 5448.0 | 4378.0 | 4440.8 | 4759.7 | 5064.7 | 5008.0 | 4718.3 | 5196.5 | 6447.5 | 6593.0 |
| 40° | 6153.1 | 5658.0 | 4785.7 | 5414.3 | 6068.8 | 6563.9 | 6347.8 | 5618.1 | 5576.7 | 6948.7 | 7166.4 |
| 42.5° | 6563.9 | 5992.2 | 5509.3 | 6603.8 | 7713.6 | 8529.1 | 7949.7 | 6778.5 | 6242.0 | 7664.5 | 7942.0 |
| 45° | 7171.0 | 6533.2 | 6384.6 | 7859.2 | 9741.7 | 11026.2 | 9821.3 | 8015.6 | 7174.0 | 8748.4 | 8966.0 |
| 47.5° | 8012.5 | 7328.9 | 7204.7 | 9182.2 | 12206.6 | 13868.2 | 11897.0 | 9162.2 | 8234.8 | 10226.0 | 10276.6 |
| 50° | 9130.0 | 8400.4 | 7981.9 | 10629.2 | 14909.1 | 16765.4 | 13971.0 | 10269.0 | 9450.4 | 12031.9 | 11973.5 |
| 52.5° | 10604.6 | 9894.9 | 8887.8 | 12007.3 | 17688.2 | 19601.4 | 16054.2 | 11240.9 | 10958.8 | 14127.3 | 14007.8 |
| 55° | 12615.9 | 12143.7 | 10126.4 | 13322.5 | 20465.9 | 22454.1 | 18056.2 | 12157.5 | 12951.6 | 16616.8 | 15893.2 |
| 57.5° | 15111.5 | 15448.7 | 11912.2 | 14847.7 | 22963.0 | 25394.2 | 20067.3 | 13439.1 | 15539.1 | 19400.5 | 16987.7 |
| 60° | 16721.0 | 19843.5 | 15332.2 | 17102.7 | 25800.5 | 28719.1 | 22823.5 | 15876.3 | 18258.5 | 20398.4 | 16779.2 |
| 62.5° | 16331.6 | 21241.6 | 19428.2 | 19981.5 | 28409.4 | 31136.5 | 25524.6 | 18324.4 | 18770.5 | 18928.4 | 15172.8 |
| 65° | 15137.5 | 20113.4 | 18592.7 | 20541.0 | 29070.1 | 31273.0 | 26246.6 | 18008.6 | 15922.4 | 15453.3 | 12195.9 |
| 67.5° | 13494.2 | 18775.1 | 16607.6 | 19057.1 | 27876.0 | 29365.9 | 24902.2 | 15930.0 | 12304.7 | 11596.4 | 8848.0 |
| 70° | 11720.7 | 17294.3 | 15304.6 | 17392.4 | 25599.6 | 26042.6 | 22616.6 | 14010.8 | 9050.3 | 7831.6 | 5677.9 |
| 72.5° | 10037.5 | 15752.2 | 14412.4 | 15686.3 | 22562.9 | 21646.3 | 19641.2 | 12313.8 | 6590.0 | 5648.8 | 4036.1 |
| 75° | 8316.0 | 13477.3 | 13141.6 | 13659.8 | 18569.7 | 17050.6 | 16319.3 | 10195.4 | 5172.0 | 4086.8 | 2785.3 |
| 77.5° | 6416.8 | 10531.1 | 11303.7 | 10938.9 | 13071.1 | 12664.9 | 12649.6 | 7661.5 | 3778.7 | 2727.0 | 1746.0 |
| 80° | 4391.8 | 7339.6 | 8831.1 | 7716.7 | 8483.1 | 8276.2 | 9527.1 | 5139.9 | 2740.8 | 1641.7 | 971.9 |
| 82.5° | 2581.5 | 4468.5 | 6146.9 | 3735.7 | 4690.7 | 4814.8 | 5673.3 | 2500.2 | 1612.6 | 378.6 | 211.6 |
| 85° | 1046.9 | 1764.3 | 2403.6 | 1462.4 | 2262.6 | 1908.4 | 2153.7 | 702.0 | 449.2 | 9.2 | 0.0 |
| 87.5° | 263.6 | 564.2 | 395.4 | 164.0 | 262.1 | 240.7 | 190.0 | 85.8 | 18.3 | 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-SB5B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 |
| 2.5° | 3421.4 | 3386.2 | 3298.9 | 3211.4 | 3140.9 | 3045.9 | 2983.1 | 2907.9 | 2835.9 | 2771.5 | 2759.2 |
| 5° | 3783.3 | 3666.7 | 3507.3 | 3361.7 | 3213.0 | 3068.8 | 2926.4 | 2776.1 | 2638.1 | 2553.8 | 2500.2 |
| 7.5° | 4077.6 | 3872.1 | 3660.6 | 3475.2 | 3295.8 | 3127.2 | 2938.6 | 2756.2 | 2540.1 | 2425.0 | 2320.8 |
| 10° | 4296.8 | 4026.9 | 3749.6 | 3536.5 | 3355.5 | 3191.5 | 3032.1 | 2848.2 | 2587.5 | 2443.5 | 2287.1 |
| 12.5° | 4440.8 | 4120.5 | 3795.5 | 3551.7 | 3349.4 | 3222.2 | 3151.7 | 3079.6 | 2820.6 | 2652.0 | 2425.0 |
| 15° | 4540.4 | 4186.4 | 3827.7 | 3516.5 | 3268.2 | 3174.6 | 3245.1 | 3328.0 | 3162.4 | 2967.7 | 2671.9 |
| 17.5° | 4649.3 | 4272.2 | 3841.5 | 3421.4 | 3110.3 | 3070.4 | 3252.8 | 3444.4 | 3436.8 | 3243.6 | 2953.9 |
| 20° | 4764.3 | 4347.3 | 3832.3 | 3268.2 | 2918.7 | 2953.9 | 3186.9 | 3409.2 | 3502.7 | 3398.5 | 3140.9 |
| 22.5° | 4882.3 | 4419.4 | 3797.0 | 3068.8 | 2739.3 | 2849.7 | 3082.7 | 3277.3 | 3387.7 | 3355.5 | 3159.4 |
| 25° | 5031.0 | 4520.6 | 3744.9 | 2854.3 | 2590.6 | 2743.9 | 2961.6 | 3119.5 | 3196.2 | 3194.6 | 3059.7 |
| 27.5° | 5208.8 | 4655.4 | 3717.3 | 2681.1 | 2484.8 | 2624.3 | 2817.5 | 2958.6 | 3012.2 | 3012.2 | 2904.8 |
| 30° | 5415.8 | 4814.8 | 3686.6 | 2567.6 | 2423.5 | 2500.2 | 2650.4 | 2788.4 | 2842.0 | 2842.0 | 2751.6 |
| 32.5° | 5645.7 | 4968.2 | 3613.0 | 2498.6 | 2377.6 | 2379.1 | 2474.1 | 2599.8 | 2664.2 | 2673.4 | 2609.0 |
| 35° | 5921.6 | 5132.2 | 3452.1 | 2443.5 | 2323.9 | 2261.0 | 2307.1 | 2411.3 | 2487.9 | 2507.9 | 2468.0 |
| 37.5° | 6283.5 | 5333.0 | 3222.2 | 2362.2 | 2241.2 | 2136.9 | 2147.6 | 2227.3 | 2311.6 | 2342.3 | 2316.2 |
| 40° | 6769.3 | 5569.0 | 2983.1 | 2245.7 | 2124.6 | 2000.5 | 1995.9 | 2054.1 | 2136.9 | 2170.6 | 2156.8 |
| 42.5° | 7411.7 | 5852.6 | 2754.7 | 2133.8 | 1983.6 | 1856.4 | 1848.7 | 1894.7 | 1966.8 | 2002.0 | 1995.9 |
| 45° | 8233.3 | 6200.6 | 2558.4 | 2046.4 | 1845.6 | 1720.0 | 1716.9 | 1755.2 | 1818.0 | 1854.8 | 1847.2 |
| 47.5° | 9375.3 | 6548.6 | 2425.0 | 2000.5 | 1736.8 | 1608.0 | 1614.2 | 1647.9 | 1704.6 | 1730.6 | 1720.0 |
| 50° | 10863.8 | 6654.4 | 2357.6 | 2000.5 | 1678.5 | 1508.4 | 1539.0 | 1566.6 | 1609.6 | 1624.9 | 1611.1 |
| 52.5° | 12292.4 | 6304.9 | 2296.3 | 2012.7 | 1686.2 | 1424.0 | 1489.9 | 1509.9 | 1546.7 | 1552.9 | 1532.9 |
| 55° | 12993.0 | 5420.4 | 2212.0 | 2015.8 | 1733.7 | 1352.1 | 1450.2 | 1487.0 | 1500.7 | 1499.2 | 1465.4 |
| 57.5° | 12752.3 | 4382.6 | 2069.5 | 2003.5 | 1765.9 | 1306.1 | 1401.1 | 1471.6 | 1480.8 | 1467.0 | 1404.1 |
| 60° | 11907.6 | 3226.8 | 1960.6 | 1913.1 | 1753.7 | 1292.2 | 1325.9 | 1437.9 | 1451.7 | 1433.3 | 1330.6 |
| 62.5° | 10491.3 | 2239.6 | 1876.3 | 1713.8 | 1700.0 | 1287.6 | 1208.0 | 1364.3 | 1398.0 | 1372.0 | 1221.7 |
| 65° | 8259.3 | 1582.0 | 1615.7 | 1502.2 | 1583.5 | 1263.1 | 1085.3 | 1275.4 | 1321.3 | 1281.6 | 1070.0 |
| 67.5° | 5589.0 | 1142.1 | 1309.1 | 1361.2 | 1394.9 | 1208.0 | 996.4 | 1174.2 | 1235.5 | 1183.4 | 893.7 |
| 70° | 3018.3 | 801.8 | 864.6 | 1146.7 | 1184.9 | 1112.8 | 916.7 | 1071.5 | 1142.1 | 1085.3 | 728.2 |
| 72.5° | 1782.8 | 576.4 | 605.5 | 921.3 | 987.2 | 979.5 | 827.8 | 951.9 | 1037.8 | 970.4 | 591.7 |
| 75° | 982.6 | 389.4 | 432.2 | 668.3 | 801.8 | 755.7 | 711.2 | 806.3 | 893.7 | 827.8 | 456.8 |
| 77.5° | 439.9 | 233.0 | 300.4 | 438.4 | 630.1 | 518.1 | 550.3 | 628.5 | 709.7 | 640.7 | 305.0 |
| 80° | 170.1 | 130.3 | 199.3 | 239.1 | 458.4 | 286.7 | 354.1 | 462.9 | 521.2 | 466.0 | 185.5 |
| 82.5° | 21.4 | 58.2 | 85.8 | 93.5 | 266.7 | 151.8 | 205.4 | 291.2 | 286.7 | 248.4 | 93.5 |
| 85° | 0.0 | 10.8 | 12.3 | 6.1 | 115.0 | 55.1 | 67.4 | 95.0 | 88.9 | 67.4 | 7.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 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-SB5B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 |
| 2.5° | 2684.2 | 2628.9 | 2601.3 | 2578.4 | 2599.8 | 2612.1 | 2612.1 | 2664.2 | 2694.8 | 2707.1 | 2792.9 |
| 5° | 2365.3 | 2262.6 | 2193.6 | 2152.2 | 2166.0 | 2181.3 | 2198.2 | 2264.1 | 2308.6 | 2337.7 | 2471.1 |
| 7.5° | 2113.9 | 1957.5 | 1861.0 | 1810.4 | 1818.0 | 1828.8 | 1842.5 | 1906.9 | 1951.4 | 1989.7 | 2138.5 |
| 10° | 1989.7 | 1768.9 | 1641.7 | 1580.4 | 1569.7 | 1563.5 | 1558.9 | 1597.3 | 1631.0 | 1661.6 | 1808.8 |
| 12.5° | 1995.9 | 1687.8 | 1532.9 | 1457.8 | 1425.6 | 1388.8 | 1359.7 | 1365.8 | 1387.2 | 1425.6 | 1519.2 |
| 15° | 2074.0 | 1661.6 | 1476.2 | 1382.7 | 1329.0 | 1286.1 | 1250.8 | 1243.2 | 1250.8 | 1257.0 | 1315.3 |
| 17.5° | 2179.8 | 1658.7 | 1427.1 | 1310.7 | 1255.4 | 1220.2 | 1188.0 | 1177.3 | 1178.9 | 1186.4 | 1201.8 |
| 20° | 2264.1 | 1649.4 | 1372.0 | 1241.7 | 1192.6 | 1161.9 | 1129.8 | 1119.0 | 1122.1 | 1123.6 | 1140.5 |
| 22.5° | 2308.6 | 1635.6 | 1310.7 | 1172.7 | 1131.3 | 1100.6 | 1071.5 | 1070.0 | 1070.0 | 1079.1 | 1091.4 |
| 25° | 2308.6 | 1606.5 | 1255.4 | 1106.8 | 1070.0 | 1042.4 | 1007.2 | 1013.2 | 1016.3 | 1028.6 | 1046.9 |
| 27.5° | 2253.4 | 1551.3 | 1211.0 | 1050.0 | 1011.7 | 984.1 | 951.9 | 959.6 | 964.2 | 978.0 | 1001.0 |
| 30° | 2182.8 | 1485.4 | 1160.4 | 996.4 | 951.9 | 932.0 | 904.5 | 907.4 | 913.6 | 929.0 | 955.0 |
| 32.5° | 2107.7 | 1407.2 | 1119.0 | 942.7 | 898.3 | 882.9 | 852.3 | 856.9 | 863.0 | 879.9 | 909.0 |
| 35° | 2025.0 | 1315.3 | 1070.0 | 893.7 | 849.2 | 837.0 | 801.8 | 804.7 | 814.0 | 832.4 | 861.5 |
| 37.5° | 1937.6 | 1240.1 | 1020.9 | 846.1 | 800.2 | 787.9 | 751.1 | 754.2 | 765.0 | 786.4 | 814.0 |
| 40° | 1851.8 | 1166.6 | 968.8 | 795.6 | 749.6 | 738.8 | 699.0 | 702.0 | 714.3 | 737.3 | 766.5 |
| 42.5° | 1758.3 | 1109.9 | 901.4 | 743.4 | 694.4 | 683.7 | 646.9 | 651.5 | 665.3 | 688.3 | 717.4 |
| 45° | 1646.4 | 1073.1 | 826.3 | 694.4 | 639.2 | 628.5 | 594.8 | 603.9 | 619.3 | 642.3 | 672.9 |
| 47.5° | 1531.4 | 1057.7 | 763.4 | 642.3 | 582.5 | 573.3 | 545.7 | 561.1 | 577.9 | 596.3 | 630.1 |
| 50° | 1421.1 | 1037.8 | 699.0 | 593.3 | 533.4 | 524.3 | 505.8 | 525.8 | 542.6 | 559.5 | 591.7 |
| 52.5° | 1295.3 | 994.9 | 640.7 | 550.3 | 492.1 | 489.0 | 479.8 | 498.2 | 513.5 | 528.9 | 556.5 |
| 55° | 1165.0 | 925.9 | 590.2 | 512.0 | 456.8 | 459.9 | 455.3 | 470.6 | 482.9 | 496.6 | 521.2 |
| 57.5° | 1051.5 | 838.6 | 550.3 | 470.6 | 426.2 | 435.3 | 429.2 | 436.9 | 444.5 | 461.5 | 481.3 |
| 60° | 936.6 | 734.3 | 505.8 | 421.6 | 395.4 | 406.2 | 389.4 | 387.9 | 390.9 | 395.4 | 432.2 |
| 62.5° | 781.8 | 625.5 | 450.7 | 378.6 | 361.7 | 366.3 | 334.2 | 309.7 | 309.7 | 314.3 | 369.4 |
| 65° | 628.5 | 524.3 | 389.4 | 329.5 | 315.8 | 312.7 | 266.7 | 233.0 | 229.9 | 243.7 | 291.2 |
| 67.5° | 516.6 | 435.3 | 328.0 | 274.4 | 265.2 | 268.2 | 234.5 | 200.8 | 197.7 | 213.1 | 248.4 |
| 70° | 427.7 | 351.1 | 262.1 | 211.6 | 220.8 | 234.5 | 200.8 | 168.6 | 164.0 | 177.8 | 211.6 |
| 72.5° | 340.3 | 274.4 | 200.8 | 156.3 | 182.4 | 199.3 | 164.0 | 133.4 | 130.3 | 142.6 | 174.8 |
| 75° | 249.9 | 196.2 | 136.4 | 113.5 | 141.0 | 156.3 | 119.6 | 95.0 | 90.4 | 101.2 | 133.4 |
| 77.5° | 154.8 | 110.4 | 85.8 | 67.4 | 96.6 | 104.2 | 62.8 | 55.1 | 53.6 | 61.3 | 84.4 |
| 80° | 72.1 | 47.6 | 41.4 | 23.0 | 35.3 | 41.4 | 26.0 | 29.1 | 30.6 | 36.8 | 52.1 |
| 82.5° | 19.9 | 7.7 | 1.5 | 0.0 | 0.0 | 12.3 | 6.1 | 12.3 | 15.4 | 23.0 | 33.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 7.7 | 13.8 | 24.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 12.3 |
| 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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| 0° | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 | 3081.1 |
| 2.5° | 2857.4 | 2918.7 | 3016.8 | 3117.9 | 3217.6 | 3318.7 | 3416.8 | 3452.1 |
| 5° | 2592.1 | 2733.2 | 2927.8 | 3136.3 | 3350.9 | 3568.6 | 3767.9 | 3858.3 |
| 7.5° | 2296.3 | 2498.6 | 2791.4 | 3117.9 | 3459.8 | 3801.6 | 4115.9 | 4261.5 |
| 10° | 1980.5 | 2236.5 | 2570.7 | 3012.2 | 3502.7 | 3974.8 | 4407.1 | 4595.7 |
| 12.5° | 1680.1 | 1948.3 | 2317.7 | 2846.6 | 3469.0 | 4074.5 | 4594.2 | 4816.4 |
| 15° | 1428.6 | 1666.2 | 2064.9 | 2650.4 | 3360.2 | 4080.6 | 4683.0 | 4926.8 |
| 17.5° | 1240.1 | 1394.9 | 1807.3 | 2432.7 | 3217.6 | 4023.8 | 4713.7 | 4974.3 |
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| 22.5° | 1091.4 | 1102.2 | 1204.9 | 1793.5 | 2924.8 | 3953.4 | 4798.0 | 5080.1 |
| 25° | 1046.9 | 1050.0 | 1077.7 | 1421.1 | 2681.1 | 3942.7 | 4880.7 | 5164.4 |
| 27.5° | 1002.6 | 1002.6 | 1017.8 | 1145.1 | 2349.9 | 3896.6 | 4988.1 | 5265.5 |
| 30° | 958.1 | 958.1 | 968.8 | 1013.2 | 1962.2 | 3806.2 | 5116.9 | 5397.3 |
| 32.5° | 912.0 | 912.0 | 921.3 | 953.5 | 1566.6 | 3692.8 | 5234.9 | 5530.7 |
| 35° | 866.1 | 863.0 | 875.2 | 909.0 | 1246.3 | 3548.7 | 5353.0 | 5674.8 |
| 37.5° | 817.0 | 815.5 | 827.8 | 866.1 | 1076.1 | 3381.6 | 5441.8 | 5871.1 |
| 40° | 765.0 | 765.0 | 778.7 | 820.1 | 1027.0 | 3171.6 | 5582.9 | 6153.1 |
| 42.5° | 717.4 | 714.3 | 729.7 | 780.2 | 990.3 | 2970.8 | 5835.8 | 6563.9 |
| 45° | 671.4 | 665.3 | 679.1 | 741.9 | 925.9 | 2900.2 | 6308.0 | 7171.0 |
| 47.5° | 628.5 | 613.2 | 625.5 | 696.0 | 867.7 | 3164.0 | 7080.5 | 8012.5 |
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| 52.5° | 556.5 | 518.1 | 524.3 | 593.3 | 783.3 | 4279.9 | 9169.9 | 10604.6 |
| 55° | 518.1 | 475.2 | 478.3 | 536.5 | 726.6 | 4361.2 | 10230.6 | 12615.9 |
| 57.5° | 475.2 | 435.3 | 435.3 | 484.4 | 685.2 | 3780.2 | 11046.1 | 15111.5 |
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| 62.5° | 375.6 | 361.7 | 351.1 | 403.1 | 749.6 | 1580.4 | 10376.3 | 16331.6 |
| 65° | 315.8 | 312.7 | 305.0 | 443.0 | 631.6 | 933.6 | 8907.8 | 15137.5 |
| 67.5° | 265.2 | 260.6 | 260.6 | 464.4 | 479.8 | 587.1 | 6959.4 | 13494.2 |
| 70° | 228.4 | 211.6 | 211.6 | 351.1 | 291.2 | 406.2 | 4859.3 | 11720.7 |
| 72.5° | 191.6 | 173.2 | 160.9 | 280.5 | 217.7 | 297.4 | 3036.7 | 10037.5 |
| 75° | 153.3 | 139.5 | 124.1 | 185.5 | 162.5 | 225.3 | 1764.3 | 8316.0 |
| 77.5° | 110.4 | 104.2 | 87.3 | 136.4 | 118.1 | 162.5 | 1050.0 | 6416.8 |
| 80° | 56.7 | 58.2 | 55.1 | 78.2 | 79.7 | 110.4 | 597.9 | 4391.8 |
| 82.5° | 33.7 | 26.0 | 29.1 | 38.3 | 46.0 | 62.8 | 225.3 | 2581.5 |
| 85° | 21.4 | 13.8 | 13.8 | 18.3 | 23.0 | 24.5 | 69.0 | 1046.9 |
| 87.5° | 10.8 | 4.6 | 6.1 | 9.2 | 7.7 | 6.1 | 3.1 | 263.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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