

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: STREETWORKS

Report Number: P970418

Luminaire Tested: **NVN-SB6B-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-750-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36190.7 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

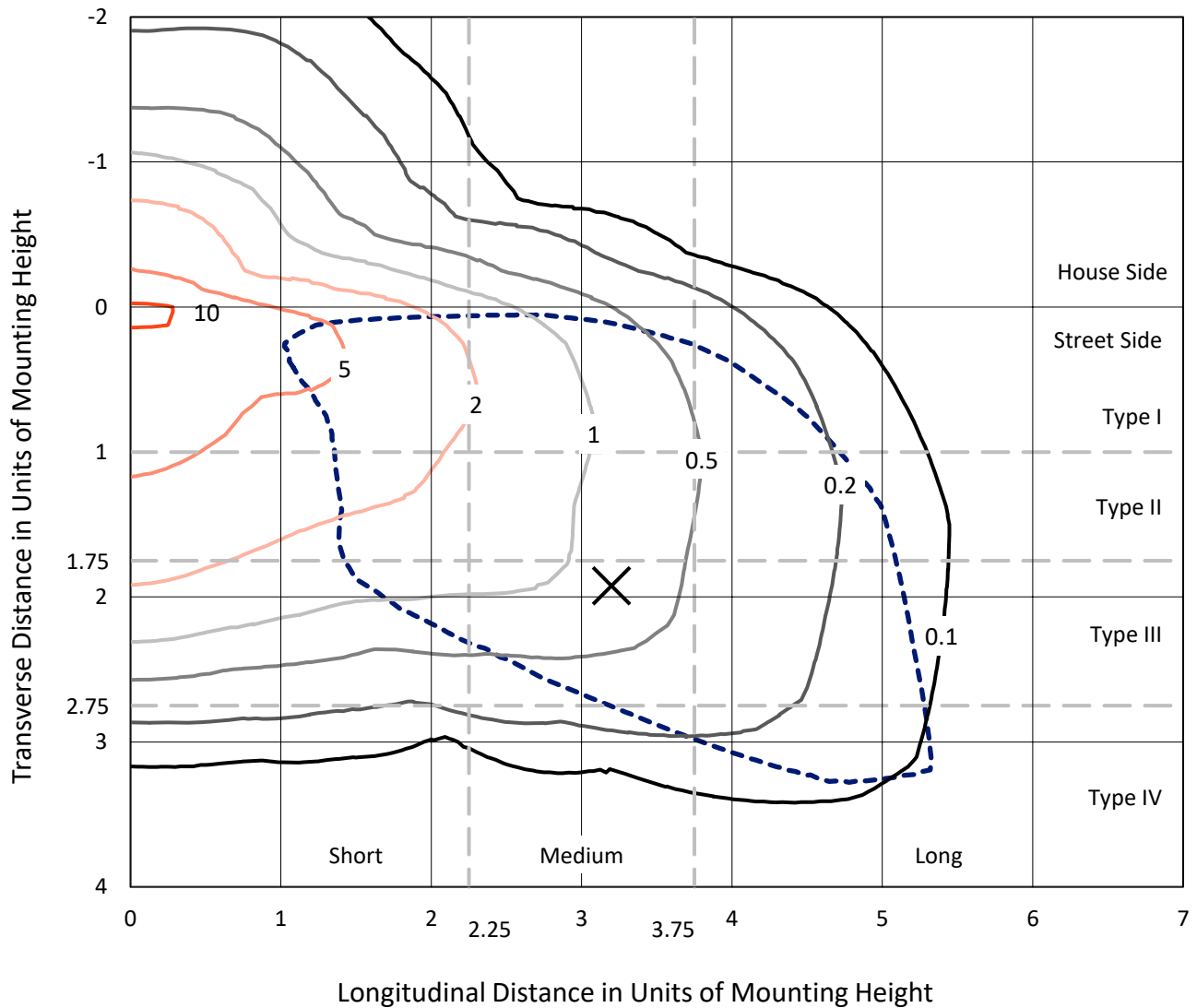
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

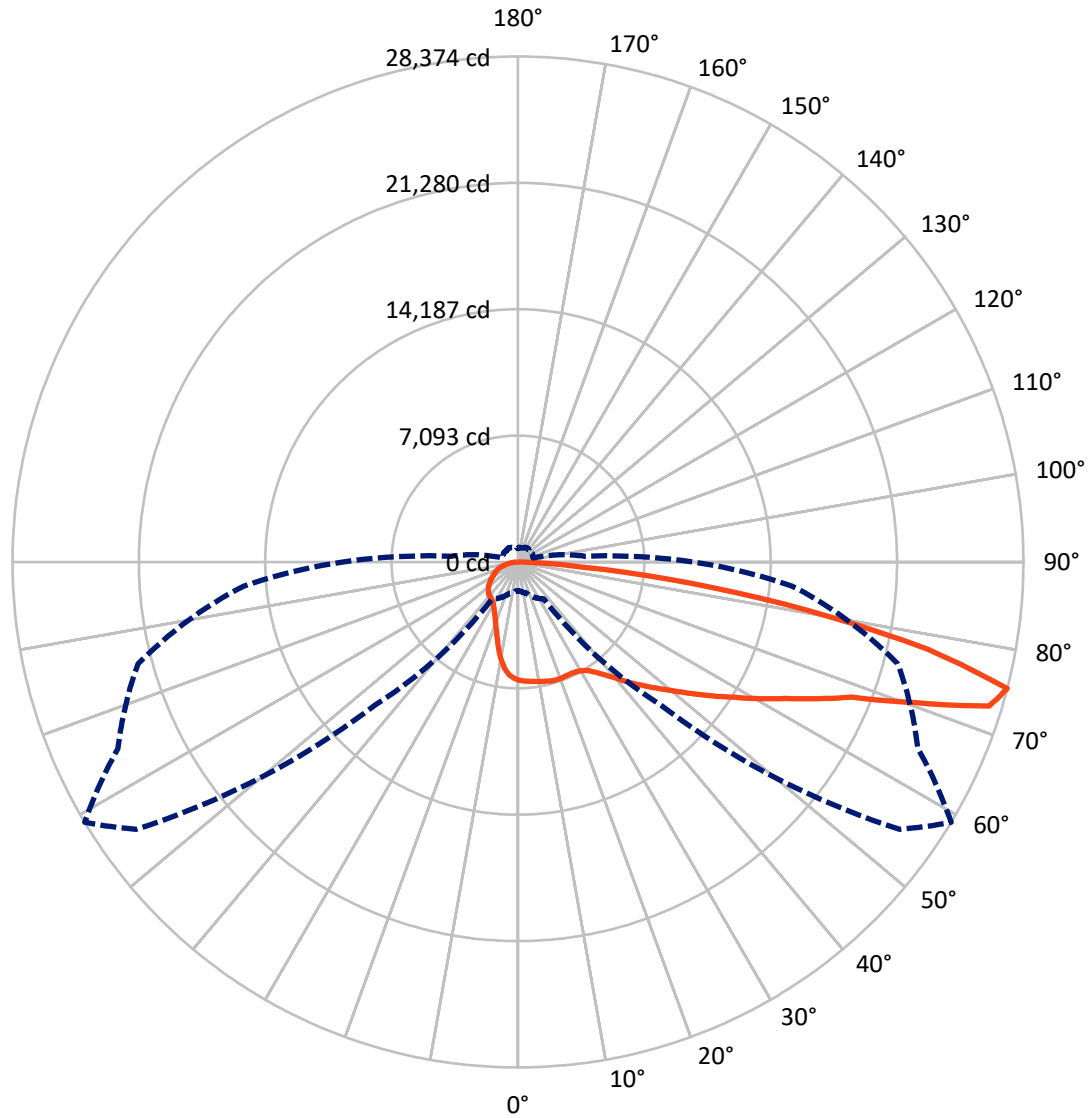
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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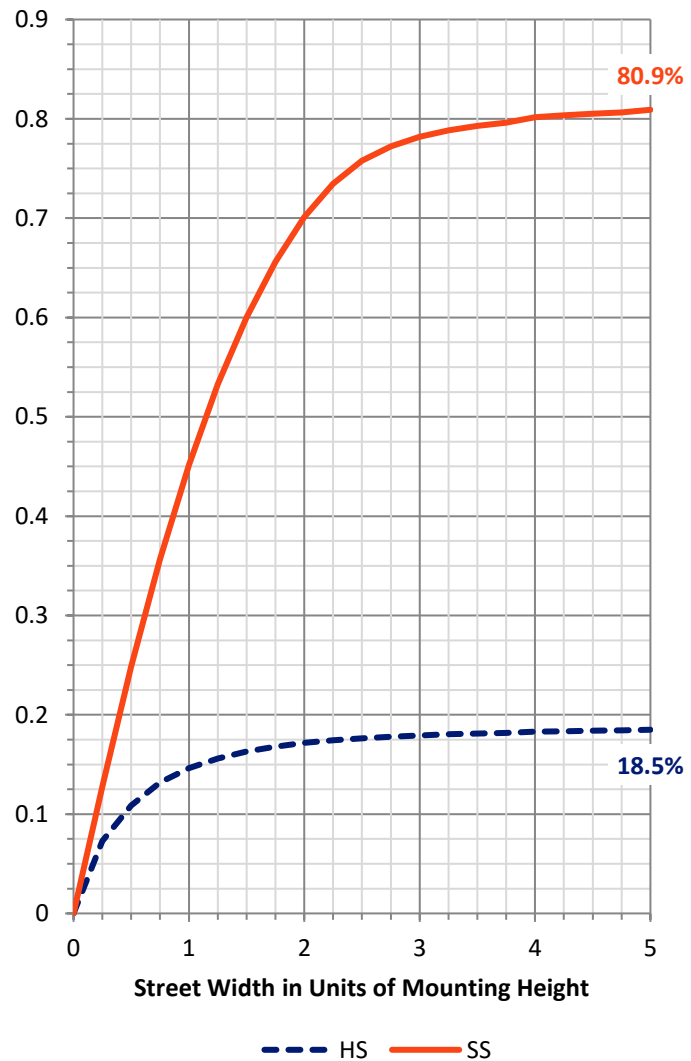
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6787.8 | 0.0 | 6787.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 29402.9 | 0.0 | 29402.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 36190.7 | 0.0 | 36190.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 595.6 | 1.6 |
| 10°-20° | 1522.5 | 4.2 |
| 20°-30° | 2312.5 | 6.4 |
| 30°-40° | 3437.5 | 9.5 |
| 40°-50° | 5112.1 | 14.1 |
| 50°-60° | 6939.1 | 19.2 |
| 60°-70° | 8471.5 | 23.4 |
| 70°-80° | 6648.3 | 18.4 |
| 80°-90° | 1151.7 | 3.2 |
| 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° | 36190.7 | 100.0 |
| 0°-180° | 36190.7 | 100.0 |

Coefficient of Utilization



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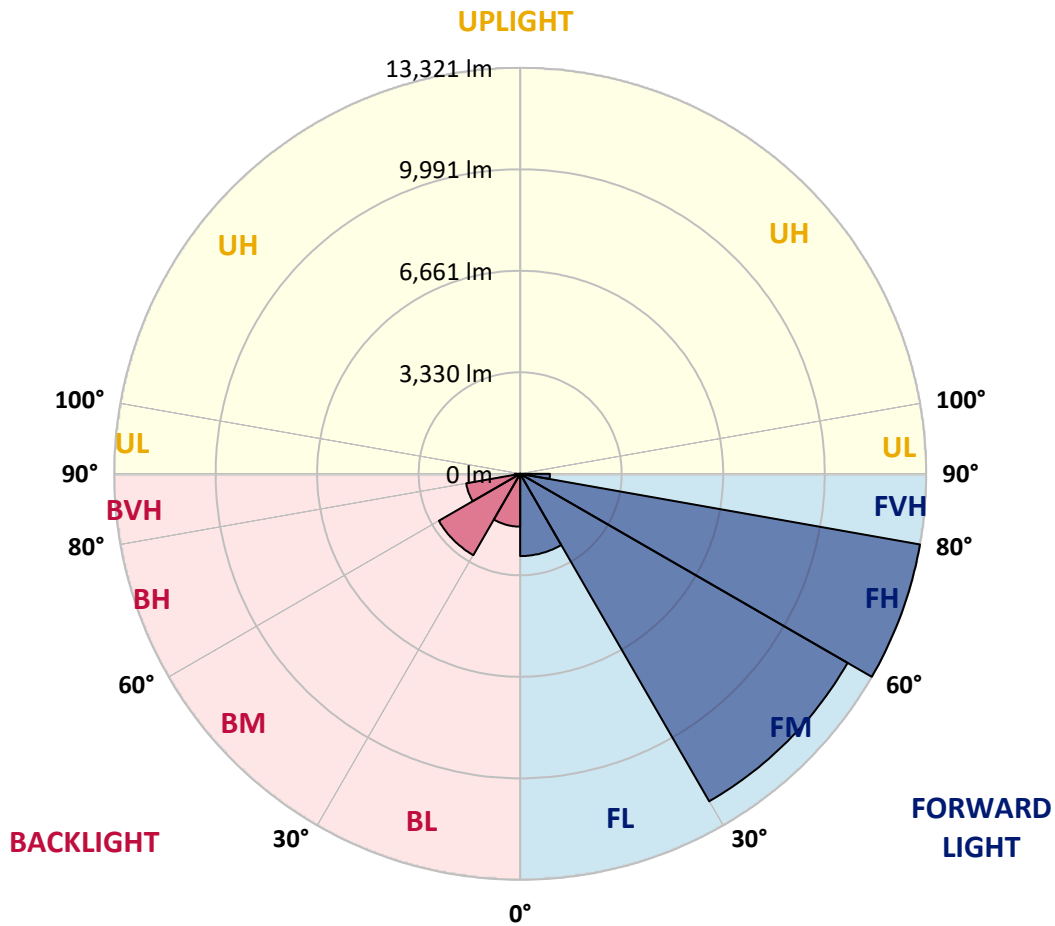
CATALOG NUMBER: NVN-SB6B-750-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2698.4 | 7.5 | | | |
| FM (30°-60°) | 12407.7 | 34.3 | | | |
| FH (60°-80°) | 13321.4 | 36.8 | | | G5 |
| FVH (80°-90°) | 975.4 | 2.7 | | | G5 |
| BL (0°-30°) | 1732.2 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3081.0 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1798.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 176.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 |
| 2.5° | 6699.2 | 6675.8 | 6699.2 | 6689.5 | 6685.6 | 6677.8 | 6679.7 | 6693.4 | 6685.6 | 6695.3 | 6662.2 |
| 5° | 6654.4 | 6640.8 | 6664.1 | 6658.3 | 6683.6 | 6687.5 | 6712.8 | 6728.4 | 6738.1 | 6740.1 | 6714.8 |
| 7.5° | 6580.4 | 6566.8 | 6599.9 | 6627.1 | 6681.7 | 6697.2 | 6749.8 | 6775.1 | 6788.8 | 6812.2 | 6775.1 |
| 10° | 6309.8 | 6304.0 | 6385.7 | 6489.0 | 6617.4 | 6697.2 | 6777.1 | 6819.8 | 6841.3 | 6903.6 | 6860.7 |
| 12.5° | 5830.9 | 5838.7 | 5945.7 | 6144.4 | 6401.3 | 6658.3 | 6808.3 | 6870.5 | 6903.6 | 6981.5 | 6962.0 |
| 15° | 5373.4 | 5371.4 | 5488.3 | 5700.4 | 6060.6 | 6487.0 | 6823.7 | 6930.8 | 6987.3 | 7102.2 | 7086.6 |
| 17.5° | 5108.6 | 5100.8 | 5182.6 | 5344.1 | 5679.0 | 6224.1 | 6784.9 | 6964.0 | 7084.7 | 7228.7 | 7215.1 |
| 20° | 5059.9 | 5044.3 | 5087.2 | 5167.0 | 5404.5 | 5936.0 | 6683.6 | 6964.0 | 7162.5 | 7349.5 | 7341.7 |
| 22.5° | 5237.0 | 5211.8 | 5194.3 | 5184.6 | 5289.6 | 5698.5 | 6568.7 | 6940.6 | 7277.4 | 7522.7 | 7509.0 |
| 25° | 5593.3 | 5554.4 | 5464.9 | 5377.3 | 5346.1 | 5591.4 | 6467.5 | 6934.7 | 7448.8 | 7756.4 | 7705.7 |
| 27.5° | 6169.7 | 6121.0 | 5939.9 | 5729.6 | 5540.8 | 5645.9 | 6422.8 | 6969.8 | 7637.6 | 8003.6 | 7902.3 |
| 30° | 6884.1 | 6831.5 | 6603.8 | 6280.6 | 5941.8 | 5848.4 | 6479.2 | 7073.0 | 7879.0 | 8332.6 | 8134.0 |
| 32.5° | 7524.6 | 7466.2 | 7271.6 | 6942.5 | 6485.1 | 6198.8 | 6658.3 | 7269.6 | 8258.6 | 8790.1 | 8482.5 |
| 35° | 8093.1 | 8025.0 | 7849.8 | 7546.0 | 7150.8 | 6691.4 | 6981.5 | 7618.1 | 8797.9 | 9533.8 | 8955.6 |
| 37.5° | 8650.0 | 8570.1 | 8379.4 | 8058.1 | 7781.6 | 7347.5 | 7427.4 | 8065.9 | 9514.4 | 10437.2 | 9582.5 |
| 40° | 9273.0 | 9158.1 | 8926.4 | 8609.1 | 8340.4 | 8116.5 | 8013.3 | 8614.9 | 10242.5 | 11445.7 | 10365.1 |
| 42.5° | 9876.5 | 9767.4 | 9491.0 | 9220.4 | 8883.6 | 8819.3 | 8692.8 | 9257.4 | 11038.7 | 12553.4 | 11159.5 |
| 45° | 10526.7 | 10396.3 | 10061.4 | 9718.7 | 9506.6 | 9286.6 | 9350.9 | 9899.9 | 11819.5 | 13682.6 | 11992.7 |
| 47.5° | 11136.1 | 10990.0 | 10594.9 | 10213.3 | 10096.5 | 9679.8 | 9954.4 | 10606.6 | 12631.3 | 14827.3 | 12818.2 |
| 50° | 11465.1 | 11321.0 | 10992.0 | 10647.4 | 10556.0 | 10164.6 | 10608.5 | 11383.3 | 13482.0 | 15968.3 | 13610.6 |
| 52.5° | 11739.6 | 11583.8 | 11153.6 | 10962.8 | 10935.6 | 10692.2 | 11414.5 | 12271.1 | 14332.9 | 16976.7 | 14375.7 |
| 55° | 12031.7 | 11858.4 | 11309.3 | 11138.1 | 11262.6 | 11284.0 | 12370.4 | 13277.6 | 15232.3 | 17959.8 | 15097.9 |
| 57.5° | 12368.5 | 12148.5 | 11459.3 | 11286.0 | 11581.9 | 11977.1 | 13468.5 | 14321.2 | 16116.2 | 18871.0 | 15740.4 |
| 60° | 12685.8 | 12463.9 | 11747.4 | 11521.6 | 11926.5 | 12781.2 | 14728.1 | 15584.7 | 17116.9 | 19682.9 | 16347.8 |
| 62.5° | 12748.1 | 12565.1 | 11977.1 | 11975.2 | 12393.8 | 13719.6 | 16219.4 | 16859.9 | 17991.0 | 20484.9 | 16893.0 |
| 65° | 11669.5 | 11554.7 | 11206.2 | 11957.6 | 13063.5 | 15070.7 | 17880.1 | 18491.4 | 19102.7 | 21185.8 | 17371.9 |
| 67.5° | 8881.6 | 8897.2 | 8871.9 | 10322.3 | 12522.3 | 17011.7 | 20284.4 | 20237.7 | 20475.2 | 21972.4 | 17922.8 |
| 70° | 4061.2 | 4152.7 | 4748.4 | 7125.6 | 10032.2 | 17235.7 | 24259.9 | 23654.4 | 22198.2 | 22990.5 | 18399.9 |
| 72.5° | 2194.1 | 2264.2 | 2507.6 | 3451.8 | 6031.4 | 15323.9 | 27230.9 | 27661.2 | 24489.7 | 23675.9 | 17876.2 |
| 75° | 1610.1 | 1649.0 | 1818.4 | 2194.1 | 2532.9 | 11389.2 | 26165.9 | 28373.7 | 24775.9 | 22077.5 | 15436.7 |
| 77.5° | 1205.1 | 1222.6 | 1360.9 | 1738.6 | 1296.6 | 6004.1 | 20907.4 | 23498.7 | 21209.2 | 18139.0 | 11402.8 |
| 80° | 874.1 | 893.6 | 996.8 | 1304.4 | 909.2 | 2196.1 | 14356.3 | 16493.9 | 14525.6 | 11562.5 | 5682.9 |
| 82.5° | 603.5 | 611.3 | 656.1 | 887.8 | 634.7 | 852.7 | 8145.7 | 9672.0 | 8108.7 | 4057.3 | 1534.1 |
| 85° | 364.1 | 373.8 | 393.3 | 517.8 | 360.2 | 405.0 | 3516.1 | 3636.8 | 2423.8 | 969.5 | 476.9 |
| 87.5° | 150.0 | 159.6 | 175.2 | 218.0 | 142.2 | 113.0 | 580.2 | 728.2 | 453.7 | 284.2 | 148.0 |
| 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° | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 | 6642.7 |
| 2.5° | 6652.5 | 6638.8 | 6601.8 | 6551.2 | 6504.4 | 6446.1 | 6420.8 | 6399.4 | 6379.9 | 6342.9 | 6325.4 |
| 5° | 6693.4 | 6656.4 | 6557.0 | 6428.6 | 6282.5 | 6122.9 | 5967.1 | 5860.1 | 5768.6 | 5700.4 | 5644.0 |
| 7.5° | 6755.7 | 6685.6 | 6504.4 | 6241.6 | 5906.8 | 5564.1 | 5254.6 | 5034.6 | 4869.2 | 4808.8 | 4703.6 |
| 10° | 6819.8 | 6736.2 | 6420.8 | 5957.4 | 5379.2 | 4851.6 | 4440.8 | 4215.0 | 4082.6 | 4039.7 | 3973.5 |
| 12.5° | 6895.8 | 6773.2 | 6290.3 | 5562.2 | 4789.3 | 4211.1 | 3852.9 | 3720.4 | 3652.3 | 3629.0 | 3634.9 |
| 15° | 7006.8 | 6804.4 | 6093.7 | 5067.7 | 4226.7 | 3743.8 | 3512.2 | 3420.6 | 3385.6 | 3383.6 | 3391.4 |
| 17.5° | 7090.5 | 6810.2 | 5788.1 | 4538.2 | 3794.4 | 3461.5 | 3270.8 | 3235.7 | 3259.1 | 3294.1 | 3307.8 |
| 20° | 7183.9 | 6757.6 | 5387.0 | 4055.3 | 3490.7 | 3214.3 | 3134.4 | 3157.8 | 3214.3 | 3264.9 | 3282.5 |
| 22.5° | 7250.1 | 6662.2 | 4902.3 | 3679.5 | 3227.9 | 3072.1 | 3068.2 | 3116.9 | 3148.1 | 3173.4 | 3187.0 |
| 25° | 7308.6 | 6500.5 | 4388.2 | 3364.2 | 3011.9 | 2986.5 | 3029.3 | 3013.7 | 2992.4 | 3013.7 | 3027.3 |
| 27.5° | 7351.4 | 6245.5 | 3928.8 | 3087.7 | 2860.0 | 2928.1 | 2902.8 | 2867.7 | 2865.8 | 2877.5 | 2897.0 |
| 30° | 7337.8 | 5904.8 | 3551.1 | 2824.9 | 2752.8 | 2819.1 | 2758.7 | 2752.8 | 2747.0 | 2752.8 | 2774.3 |
| 32.5° | 7337.8 | 5517.5 | 3261.0 | 2643.9 | 2684.8 | 2659.5 | 2653.6 | 2640.0 | 2616.6 | 2614.7 | 2640.0 |
| 35° | 7378.7 | 5130.0 | 3011.9 | 2546.5 | 2628.3 | 2567.9 | 2571.8 | 2538.7 | 2490.0 | 2466.7 | 2490.0 |
| 37.5° | 7462.3 | 4818.5 | 2764.5 | 2499.8 | 2529.0 | 2527.0 | 2511.5 | 2455.0 | 2369.4 | 2295.4 | 2320.7 |
| 40° | 7664.8 | 4727.0 | 2595.2 | 2478.3 | 2482.2 | 2505.6 | 2464.7 | 2355.8 | 2161.0 | 2040.4 | 2055.9 |
| 42.5° | 7982.2 | 4880.8 | 2558.2 | 2425.8 | 2451.1 | 2474.5 | 2394.6 | 2141.5 | 2003.4 | 1931.3 | 1931.3 |
| 45° | 8385.2 | 5149.5 | 2638.0 | 2349.9 | 2377.2 | 2418.0 | 2180.5 | 2059.8 | 1997.5 | 1999.5 | 2009.2 |
| 47.5° | 8895.3 | 5431.8 | 2786.0 | 2283.7 | 2270.1 | 2293.4 | 2038.4 | 1964.4 | 1878.7 | 1900.1 | 1954.7 |
| 50° | 9485.1 | 5718.0 | 2926.2 | 2194.1 | 2151.3 | 2075.3 | 1946.9 | 1876.8 | 1767.7 | 1717.2 | 1730.8 |
| 52.5° | 10123.7 | 5994.4 | 2982.6 | 2085.1 | 2022.8 | 1935.2 | 1884.6 | 1798.9 | 1666.5 | 1582.8 | 1580.9 |
| 55° | 10729.2 | 6245.5 | 2920.3 | 1954.7 | 1894.3 | 1826.1 | 1818.4 | 1765.8 | 1623.7 | 1506.9 | 1506.9 |
| 57.5° | 11301.5 | 6455.9 | 2764.5 | 1822.2 | 1763.8 | 1723.0 | 1775.5 | 1750.2 | 1571.1 | 1421.3 | 1413.5 |
| 60° | 11786.4 | 6599.9 | 2538.7 | 1688.0 | 1647.1 | 1625.6 | 1705.5 | 1697.7 | 1497.1 | 1329.7 | 1323.9 |
| 62.5° | 12171.9 | 6656.4 | 2289.5 | 1559.4 | 1549.7 | 1510.7 | 1608.1 | 1608.1 | 1403.7 | 1240.1 | 1234.3 |
| 65° | 12473.6 | 6601.8 | 2036.5 | 1432.8 | 1452.3 | 1394.0 | 1489.3 | 1477.6 | 1304.4 | 1160.3 | 1152.5 |
| 67.5° | 12740.3 | 6422.8 | 1756.0 | 1308.3 | 1353.1 | 1279.1 | 1364.8 | 1337.5 | 1195.4 | 1080.6 | 1072.8 |
| 70° | 12859.0 | 6006.1 | 1436.7 | 1183.7 | 1238.2 | 1166.1 | 1240.1 | 1189.5 | 1072.8 | 994.9 | 979.3 |
| 72.5° | 11905.1 | 4991.8 | 1131.1 | 1053.3 | 1100.0 | 1041.6 | 1105.9 | 1047.4 | 940.3 | 905.3 | 876.1 |
| 75° | 9849.2 | 3745.8 | 870.2 | 911.1 | 946.2 | 901.4 | 944.2 | 901.4 | 804.0 | 829.3 | 757.4 |
| 77.5° | 7152.8 | 2529.0 | 665.8 | 761.3 | 776.8 | 753.5 | 790.5 | 741.8 | 654.2 | 648.3 | 619.1 |
| 80° | 3557.0 | 1481.5 | 521.7 | 601.6 | 595.7 | 580.2 | 623.0 | 599.6 | 525.6 | 556.8 | 550.9 |
| 82.5° | 1029.9 | 634.7 | 379.7 | 422.5 | 410.8 | 414.7 | 445.9 | 457.6 | 685.3 | 679.5 | 695.1 |
| 85° | 323.2 | 249.2 | 227.8 | 235.5 | 223.9 | 229.7 | 262.8 | 521.7 | 482.8 | 282.3 | 305.7 |
| 87.5° | 83.7 | 85.7 | 56.5 | 60.4 | 62.3 | 74.0 | 83.7 | 317.3 | 151.9 | 99.3 | 105.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)