

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: P970382

Luminaire Tested: **NVN-SB6B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37660.6 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

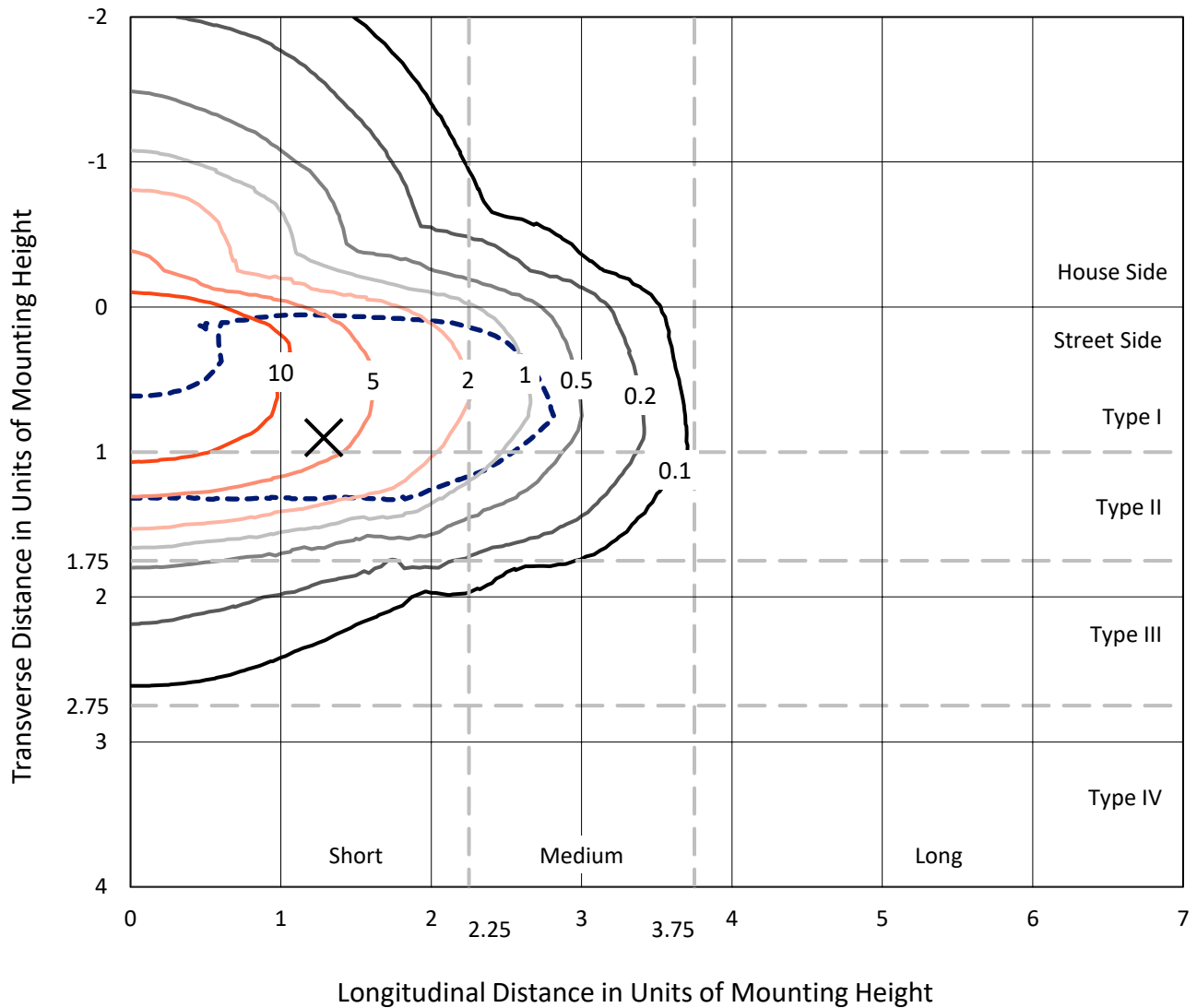
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

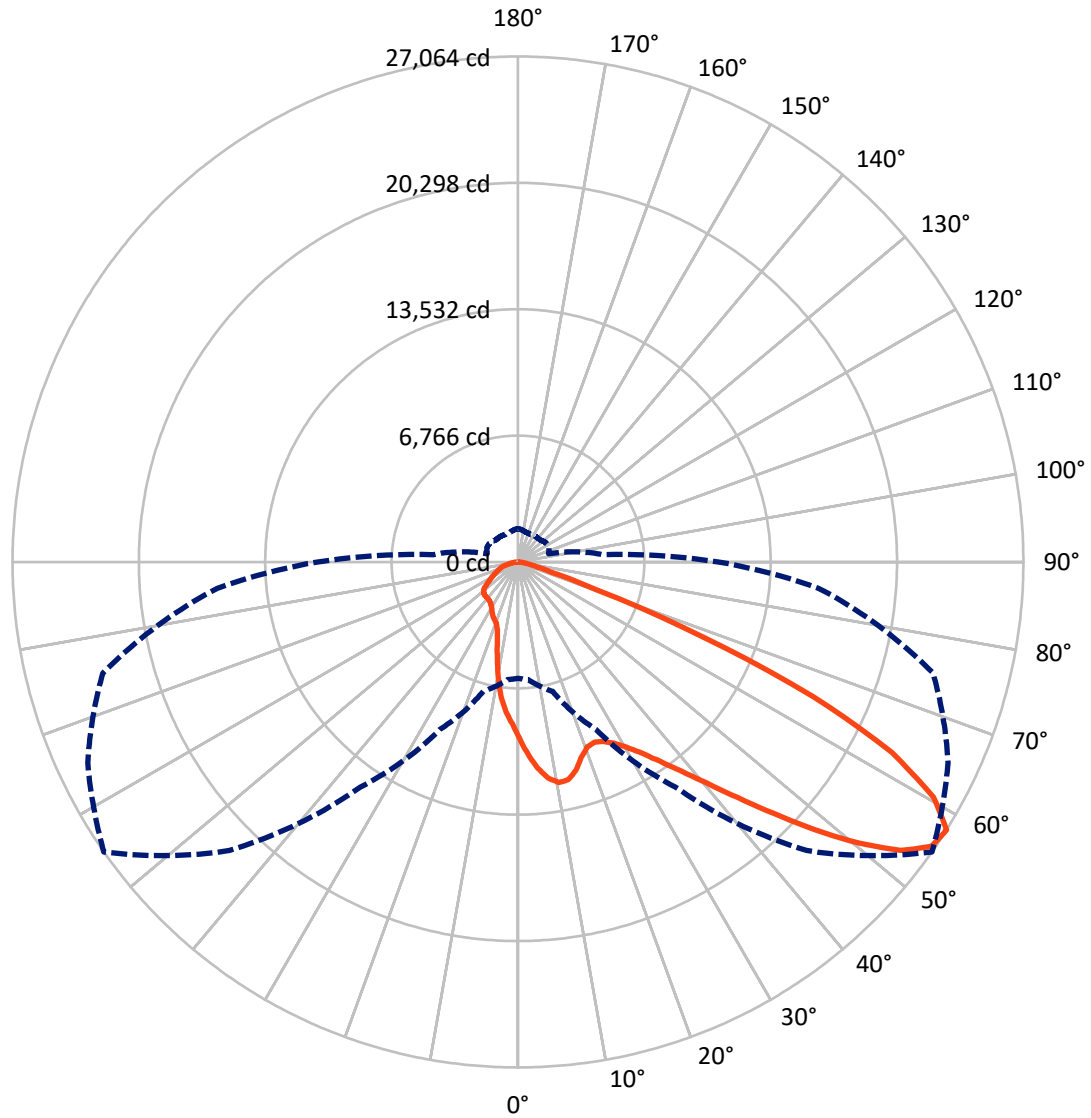
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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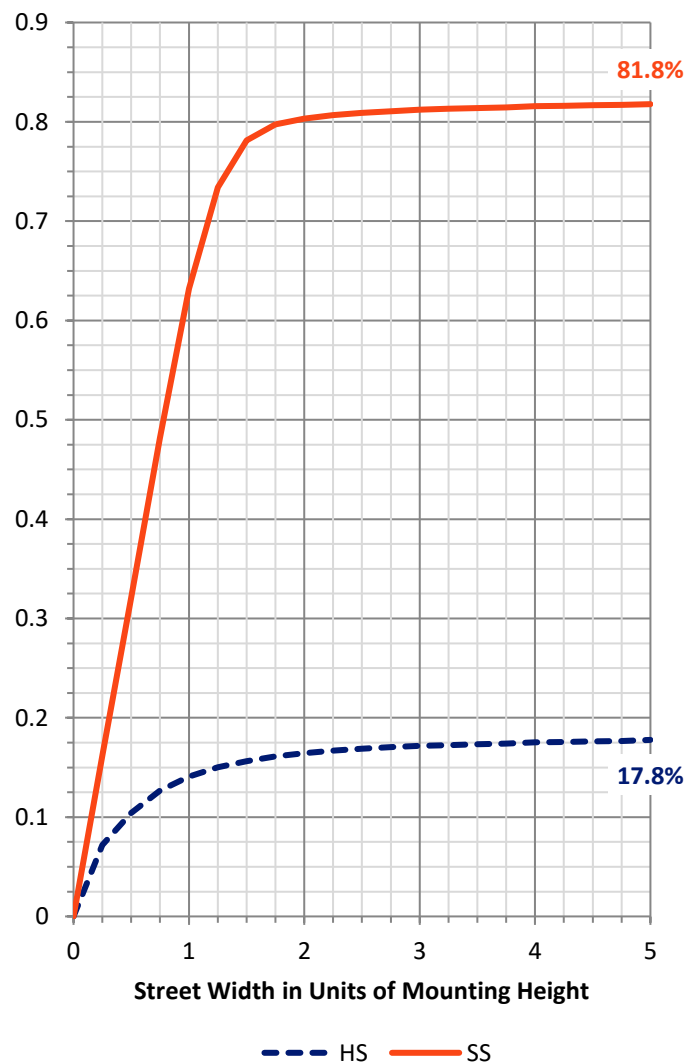
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6814.5 | 0.0 | 6814.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 30846.1 | 0.0 | 30846.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 37660.6 | 0.0 | 37660.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 875.6 | 2.3 |
| 10°-20° | 2210.2 | 5.9 |
| 20°-30° | 3526.8 | 9.4 |
| 30°-40° | 5583.8 | 14.8 |
| 40°-50° | 8546.6 | 22.7 |
| 50°-60° | 9154.3 | 24.3 |
| 60°-70° | 5759.0 | 15.3 |
| 70°-80° | 1703.0 | 4.5 |
| 80°-90° | 301.1 | 0.8 |
| 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° | 37660.6 | 100.0 |
| 0°-180° | 37660.6 | 100.0 |

Coefficient of Utilization



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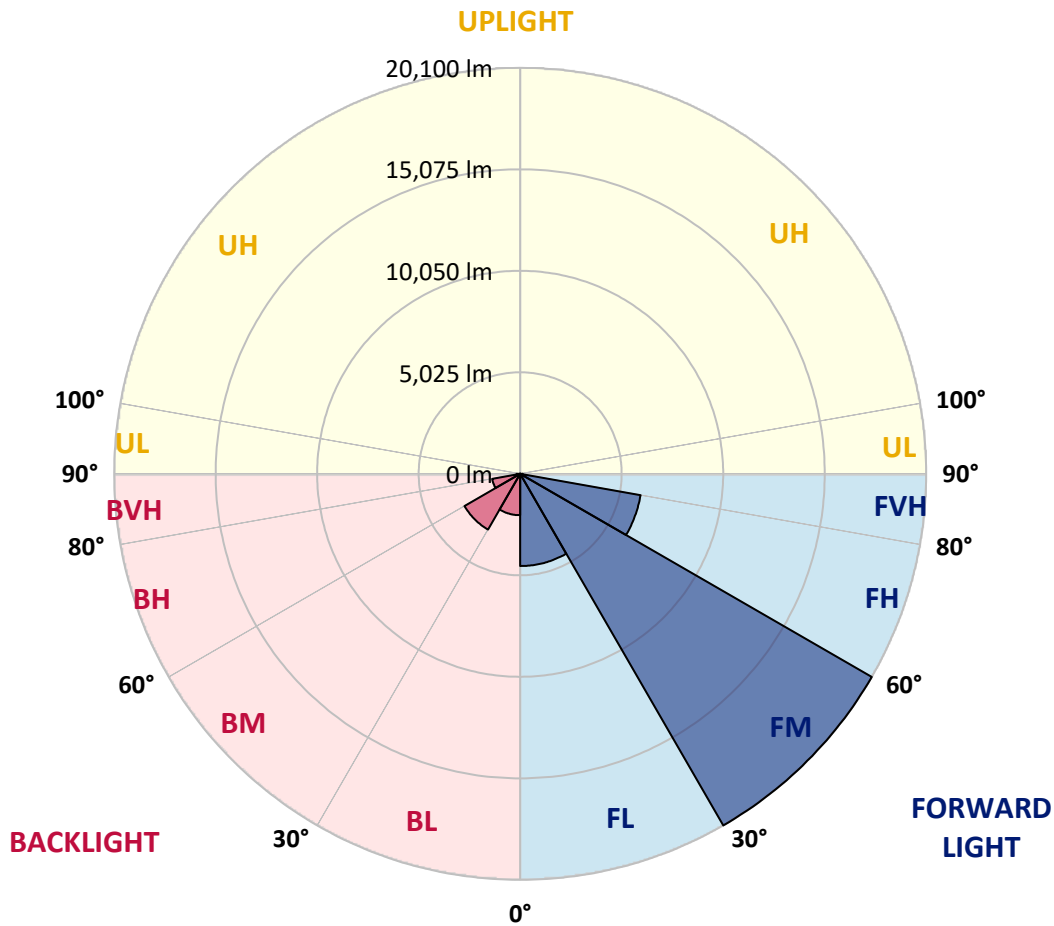
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4564.5 | 12.1 | | | |
| FM (30°-60°) | 20099.7 | 53.4 | | | |
| FH (60°-80°) | 6054.7 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 127.2 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2048.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3185.0 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1407.3 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 173.9 | 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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 |
| 2.5° | 10826.6 | 10818.8 | 10861.6 | 10715.7 | 10616.3 | 10482.0 | 10304.8 | 10079.0 | 9835.6 | 9578.6 | 9467.6 |
| 5° | 11802.0 | 11733.8 | 11778.6 | 11669.6 | 11560.6 | 11358.1 | 11095.2 | 10727.2 | 10277.6 | 9765.5 | 9492.9 |
| 7.5° | 11648.2 | 11601.5 | 11716.3 | 11813.6 | 11895.4 | 11870.1 | 11677.4 | 11291.9 | 10711.8 | 9968.0 | 9572.8 |
| 10° | 10408.0 | 10355.5 | 10517.0 | 10853.8 | 11348.4 | 11778.6 | 12012.2 | 11772.7 | 11155.6 | 10189.9 | 9650.7 |
| 12.5° | 9313.9 | 9288.6 | 9395.7 | 9668.2 | 10217.2 | 11042.7 | 11969.4 | 12193.3 | 11617.0 | 10452.7 | 9755.8 |
| 15° | 8846.6 | 8815.4 | 8883.6 | 9021.8 | 9372.3 | 10141.2 | 11580.0 | 12481.4 | 12070.6 | 10756.5 | 9923.2 |
| 17.5° | 8743.5 | 8708.4 | 8737.6 | 8809.6 | 9035.5 | 9621.5 | 10992.1 | 12623.6 | 12543.7 | 11095.2 | 10063.4 |
| 20° | 8934.2 | 8905.0 | 8908.9 | 8905.0 | 9062.7 | 9528.0 | 10583.2 | 12569.1 | 12956.5 | 11406.7 | 10199.7 |
| 22.5° | 9395.7 | 9347.0 | 9348.9 | 9245.7 | 9331.4 | 9691.6 | 10476.1 | 12423.0 | 13324.4 | 11679.4 | 10302.9 |
| 25° | 10147.1 | 10059.6 | 10077.1 | 9814.2 | 9790.8 | 10057.6 | 10643.6 | 12310.1 | 13690.4 | 11897.4 | 10322.4 |
| 27.5° | 11175.1 | 11075.7 | 11023.3 | 10631.9 | 10445.0 | 10577.4 | 10984.3 | 12349.0 | 14037.0 | 12086.2 | 10273.7 |
| 30° | 12460.0 | 12339.3 | 12232.2 | 11677.4 | 11338.7 | 11290.0 | 11513.8 | 12606.1 | 14445.8 | 12284.8 | 10189.9 |
| 32.5° | 14035.0 | 13894.9 | 13700.2 | 12964.3 | 12487.3 | 12232.2 | 12199.1 | 13063.5 | 14924.7 | 12537.9 | 10147.1 |
| 35° | 15909.8 | 15726.9 | 15450.4 | 14498.4 | 13894.9 | 13373.1 | 13102.5 | 13723.5 | 15580.8 | 12919.5 | 10195.8 |
| 37.5° | 17841.1 | 17634.8 | 17381.7 | 16248.6 | 15506.9 | 14737.9 | 14204.4 | 14619.1 | 16455.0 | 13437.3 | 10324.3 |
| 40° | 19622.6 | 19390.8 | 19155.3 | 18146.8 | 17350.6 | 16423.9 | 15553.6 | 15752.2 | 17523.8 | 14056.4 | 10542.3 |
| 42.5° | 20673.8 | 20502.6 | 20413.0 | 19867.9 | 19252.7 | 18312.3 | 17231.8 | 17095.6 | 18725.1 | 14769.0 | 10791.5 |
| 45° | 20627.2 | 20557.1 | 20833.5 | 21059.3 | 20913.4 | 20391.6 | 19198.1 | 18581.0 | 19930.2 | 15386.2 | 11021.3 |
| 47.5° | 19525.2 | 19572.0 | 20189.1 | 21458.5 | 22017.2 | 22289.8 | 21437.1 | 20039.2 | 20977.5 | 15847.6 | 11124.4 |
| 50° | 16527.0 | 16565.9 | 17995.0 | 20732.3 | 22301.4 | 23837.6 | 23658.4 | 21462.4 | 21789.4 | 16129.9 | 11101.1 |
| 52.5° | 14153.8 | 14179.1 | 14792.4 | 18579.0 | 21363.0 | 24616.3 | 25659.8 | 22803.8 | 22383.2 | 16207.7 | 10970.7 |
| 55° | 10661.1 | 10748.7 | 11435.9 | 14576.2 | 18921.7 | 23999.1 | 26878.6 | 24186.0 | 22759.0 | 16215.5 | 10834.4 |
| 57.5° | 6228.1 | 6323.4 | 7172.3 | 9894.0 | 14706.7 | 21847.9 | 27063.5 | 25412.6 | 23014.0 | 16153.3 | 10752.6 |
| 60° | 3050.7 | 3091.6 | 3461.5 | 5200.1 | 9068.6 | 17703.0 | 25576.1 | 26006.4 | 23156.2 | 16120.2 | 10748.7 |
| 62.5° | 2055.9 | 2050.1 | 2065.7 | 2566.0 | 4468.1 | 11373.6 | 22476.7 | 24966.7 | 23080.2 | 15993.6 | 10709.8 |
| 65° | 1767.7 | 1746.4 | 1688.0 | 1800.8 | 2314.9 | 5202.1 | 17366.2 | 21863.5 | 22502.0 | 15676.2 | 10443.0 |
| 67.5° | 1528.3 | 1530.2 | 1532.2 | 1497.1 | 1652.9 | 2400.5 | 10612.4 | 17222.0 | 20426.6 | 14173.3 | 9415.1 |
| 70° | 1265.5 | 1283.0 | 1290.8 | 1290.8 | 1347.3 | 1575.0 | 4530.4 | 11803.9 | 16112.4 | 11112.7 | 7583.1 |
| 72.5° | 1152.5 | 1115.6 | 1119.5 | 1100.0 | 1100.0 | 1199.2 | 1824.2 | 6691.4 | 10151.0 | 6251.4 | 4627.8 |
| 75° | 940.3 | 963.7 | 967.6 | 954.0 | 909.2 | 915.0 | 1082.5 | 2807.4 | 4343.4 | 2593.2 | 2287.6 |
| 77.5° | 811.8 | 811.8 | 819.6 | 809.9 | 774.9 | 685.3 | 722.3 | 1088.3 | 1477.6 | 1063.0 | 1142.8 |
| 80° | 652.2 | 650.3 | 683.4 | 702.8 | 648.3 | 506.1 | 461.5 | 601.6 | 656.1 | 467.3 | 593.8 |
| 82.5° | 317.3 | 336.8 | 469.2 | 535.4 | 492.5 | 366.0 | 282.3 | 373.8 | 350.4 | 206.3 | 266.7 |
| 85° | 184.9 | 175.2 | 210.2 | 297.9 | 282.3 | 202.4 | 136.3 | 194.6 | 183.0 | 105.2 | 107.1 |
| 87.5° | 58.4 | 54.5 | 42.8 | 101.3 | 81.8 | 56.5 | 37.0 | 56.5 | 50.6 | 23.4 | 23.4 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 | 9436.6 |
| 2.5° | 9329.4 | 9099.7 | 8871.9 | 8663.6 | 8537.0 | 8455.3 | 8373.5 | 8282.0 | 8246.9 | 8194.4 |
| 5° | 9236.0 | 8792.1 | 8396.9 | 8056.2 | 7746.6 | 7503.3 | 7257.9 | 7059.4 | 6969.8 | 7030.2 |
| 7.5° | 9181.4 | 8539.0 | 7929.6 | 7304.7 | 6703.1 | 6222.3 | 5803.7 | 5509.7 | 5377.3 | 5410.4 |
| 10° | 9132.8 | 8252.8 | 7324.1 | 6337.1 | 5472.7 | 4877.0 | 4448.6 | 4224.7 | 4141.0 | 4158.5 |
| 12.5° | 9088.1 | 7931.6 | 6594.0 | 5295.5 | 4376.5 | 3983.4 | 3860.7 | 3862.6 | 3878.2 | 3889.9 |
| 15° | 9080.3 | 7544.1 | 5778.3 | 4384.3 | 3784.7 | 3759.4 | 3891.8 | 3975.6 | 4020.3 | 4033.9 |
| 17.5° | 9068.6 | 7080.8 | 4947.1 | 3763.3 | 3640.7 | 3812.0 | 3934.7 | 3989.2 | 4024.2 | 4026.1 |
| 20° | 9021.8 | 6492.9 | 4180.0 | 3467.4 | 3609.5 | 3757.4 | 3833.4 | 3876.2 | 3905.5 | 3915.2 |
| 22.5° | 8877.7 | 5838.7 | 3582.3 | 3335.0 | 3484.9 | 3603.7 | 3693.2 | 3741.9 | 3759.4 | 3771.1 |
| 25° | 8618.8 | 5106.7 | 3169.5 | 3208.5 | 3311.7 | 3461.5 | 3533.6 | 3543.3 | 3537.5 | 3555.0 |
| 27.5° | 8280.1 | 4322.1 | 2912.5 | 3037.2 | 3169.5 | 3298.0 | 3337.0 | 3331.1 | 3319.5 | 3338.9 |
| 30° | 7871.2 | 3617.3 | 2748.9 | 2844.4 | 3025.5 | 3142.2 | 3177.3 | 3163.7 | 3140.3 | 3161.7 |
| 32.5° | 7439.0 | 3041.1 | 2614.7 | 2710.1 | 2906.7 | 3021.6 | 3056.5 | 3042.9 | 3025.5 | 3042.9 |
| 35° | 7036.0 | 2638.0 | 2490.0 | 2620.5 | 2813.2 | 2926.2 | 2971.0 | 2972.9 | 2972.9 | 2994.3 |
| 37.5° | 6666.1 | 2402.4 | 2386.9 | 2564.0 | 2748.9 | 2850.2 | 2914.5 | 2918.4 | 2834.6 | 2840.5 |
| 40° | 6323.4 | 2303.2 | 2340.2 | 2527.0 | 2686.7 | 2784.0 | 2787.9 | 2569.9 | 2416.0 | 2412.1 |
| 42.5° | 6043.1 | 2283.7 | 2353.8 | 2523.1 | 2641.9 | 2645.8 | 2371.3 | 2201.9 | 2159.1 | 2161.0 |
| 45° | 5780.3 | 2277.9 | 2385.0 | 2523.1 | 2575.7 | 2285.6 | 2100.6 | 2055.9 | 2059.8 | 2075.4 |
| 47.5° | 5486.3 | 2254.5 | 2390.8 | 2488.1 | 2385.0 | 2032.6 | 1978.0 | 1958.6 | 1950.8 | 1954.7 |
| 50° | 5165.1 | 2170.7 | 2316.8 | 2418.0 | 2057.9 | 1923.5 | 1855.4 | 1849.5 | 1859.2 | 1865.1 |
| 52.5° | 4826.3 | 2034.5 | 2190.2 | 2291.5 | 1907.9 | 1828.1 | 1752.2 | 1765.8 | 1808.6 | 1822.2 |
| 55° | 4604.4 | 1874.8 | 2022.8 | 2038.4 | 1802.8 | 1738.6 | 1674.3 | 1705.5 | 1785.2 | 1810.6 |
| 57.5° | 4546.0 | 1705.5 | 1832.0 | 1814.5 | 1668.5 | 1660.7 | 1621.8 | 1649.0 | 1750.3 | 1787.2 |
| 60° | 4528.4 | 1553.6 | 1645.1 | 1631.5 | 1538.0 | 1575.0 | 1565.3 | 1578.9 | 1614.0 | 1625.6 |
| 62.5° | 4392.1 | 1432.9 | 1477.6 | 1458.2 | 1421.3 | 1485.4 | 1508.8 | 1479.6 | 1506.9 | 1520.5 |
| 65° | 4045.6 | 1335.6 | 1314.2 | 1300.5 | 1316.1 | 1374.5 | 1421.3 | 1362.8 | 1388.2 | 1427.1 |
| 67.5° | 3473.2 | 1203.1 | 1144.7 | 1160.3 | 1209.0 | 1240.1 | 1300.5 | 1234.3 | 1255.7 | 1321.9 |
| 70° | 2809.3 | 1035.8 | 983.2 | 1028.0 | 1074.7 | 1138.9 | 1148.6 | 1103.9 | 1154.5 | 1228.5 |
| 72.5° | 1987.8 | 866.3 | 829.3 | 920.9 | 936.4 | 1020.2 | 998.8 | 977.3 | 1047.4 | 1072.8 |
| 75° | 1378.4 | 698.9 | 677.5 | 747.6 | 804.0 | 876.1 | 860.5 | 885.8 | 1033.8 | 1045.5 |
| 77.5° | 872.2 | 543.1 | 529.5 | 574.3 | 652.2 | 732.1 | 757.4 | 1045.5 | 1765.8 | 1835.9 |
| 80° | 506.1 | 405.0 | 389.4 | 424.5 | 492.5 | 566.5 | 730.1 | 1283.0 | 1164.2 | 1150.6 |
| 82.5° | 282.3 | 278.4 | 258.9 | 268.7 | 329.0 | 408.9 | 1031.9 | 903.3 | 734.0 | 757.4 |
| 85° | 132.4 | 163.5 | 140.2 | 134.4 | 184.9 | 479.0 | 689.2 | 515.9 | 342.7 | 334.9 |
| 87.5° | 35.1 | 31.2 | 31.2 | 35.1 | 77.9 | 412.8 | 274.5 | 220.0 | 130.5 | 126.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)