

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: P970870

Luminaire Tested: **NVN-SB6C-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35244.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

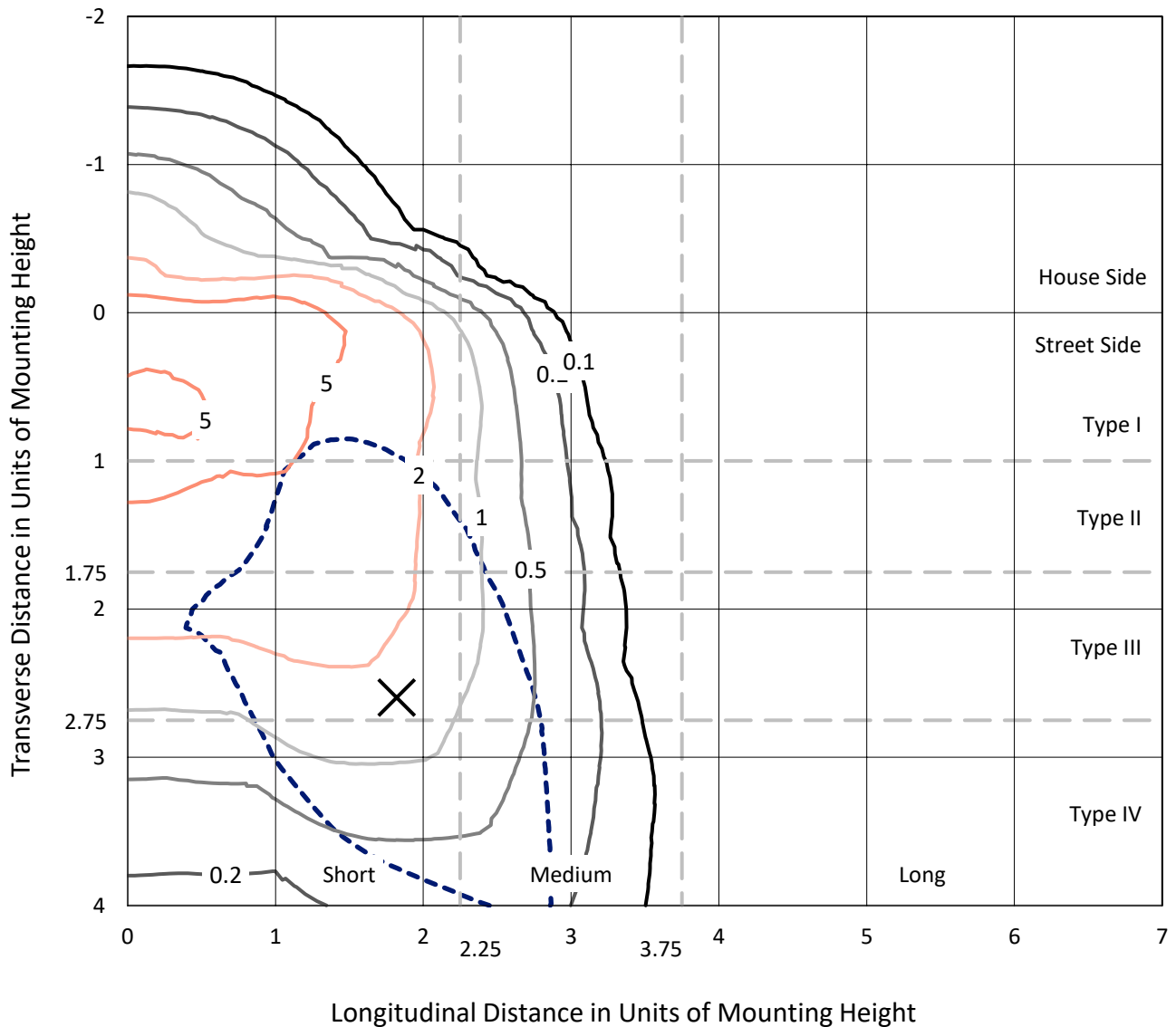
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

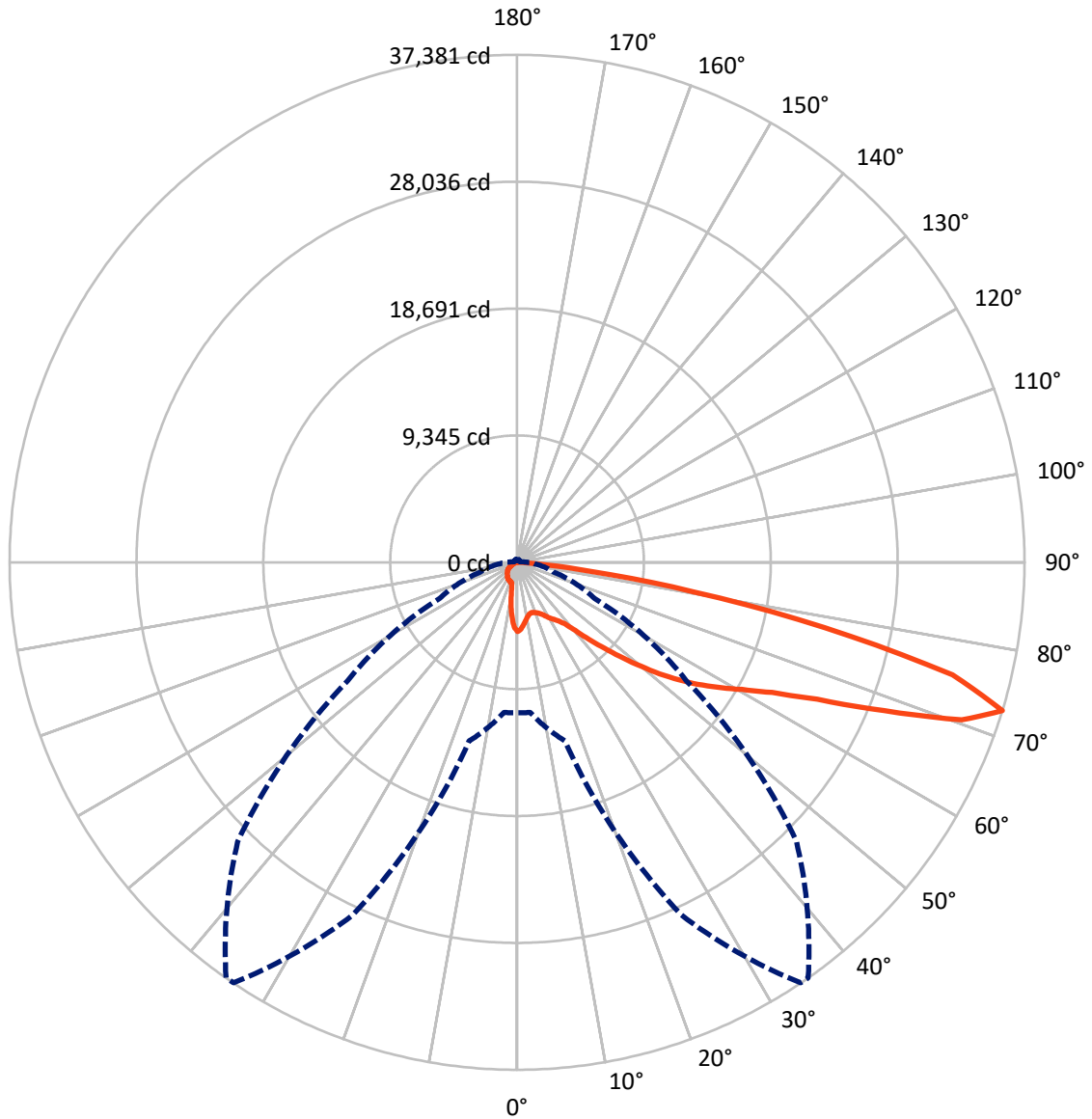
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3966.6 | 0.0 | 3966.6 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 31278.0 | 0.0 | 31278.0 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 35244.6 | 0.0 | 35244.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.8 | 1.2 |
| 10°-20° | 982.0 | 2.8 |
| 20°-30° | 1595.2 | 4.5 |
| 30°-40° | 2661.5 | 7.6 |
| 40°-50° | 5035.7 | 14.3 |
| 50°-60° | 8001.7 | 22.7 |
| 60°-70° | 9898.6 | 28.1 |
| 70°-80° | 6153.0 | 17.5 |
| 80°-90° | 497.3 | 1.4 |
| 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° | 35244.6 | 100.0 |
| 0°-180° | 35244.6 | 100.0 |

Coefficient of Utilization



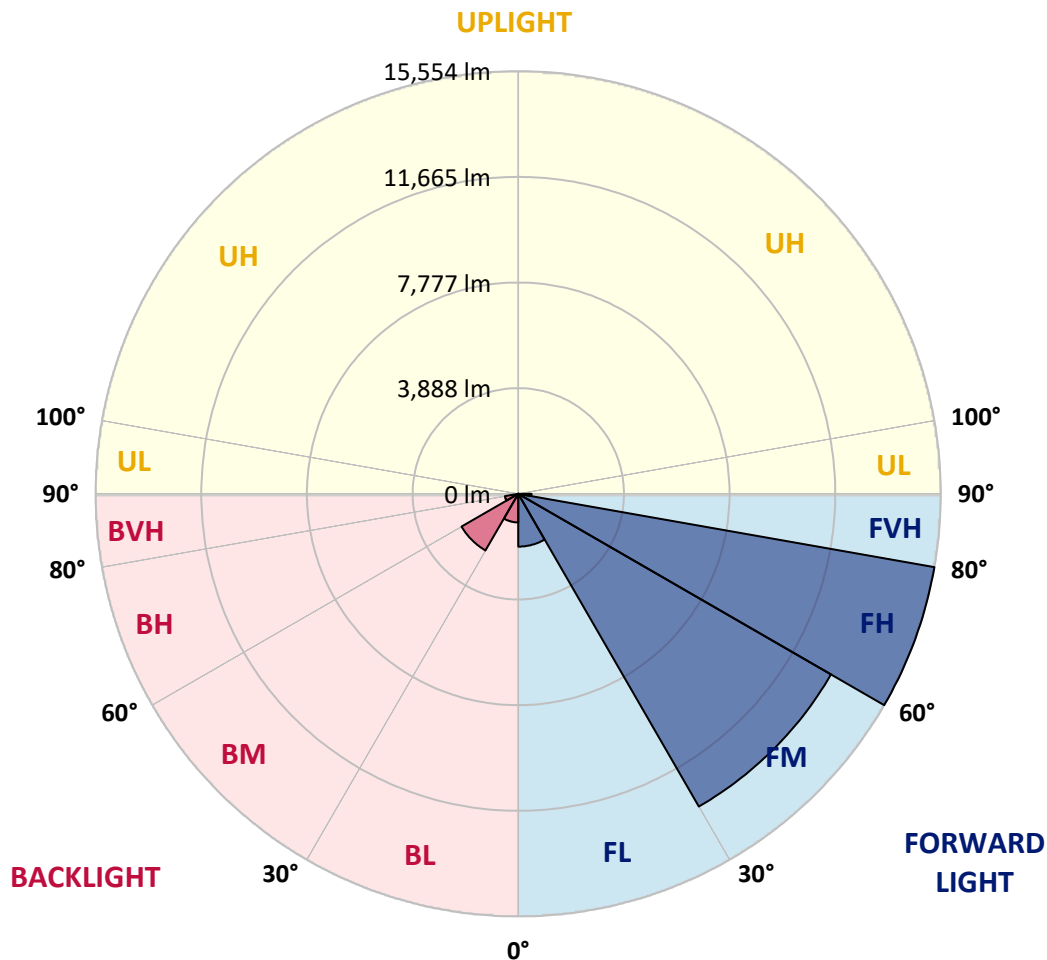
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1942.9 | 5.5 | | | |
| FM (30°-60°) | 13290.7 | 37.7 | | | |
| FH (60°-80°) | 15553.9 | 44.1 | | | G5 |
| FVH (80°-90°) | 490.5 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1054.0 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2408.1 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 497.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.8 | 0.0 | | | G0/10 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 |
| 2.5° | 4880.8 | 4922.2 | 4929.9 | 4942.9 | 4942.9 | 4958.3 | 4984.2 | 5020.3 | 5079.7 | 5110.8 | 5131.4 |
| 5° | 4498.6 | 4529.7 | 4568.4 | 4599.4 | 4658.7 | 4666.5 | 4767.3 | 4865.4 | 5002.2 | 5105.5 | 5177.9 |
| 7.5° | 4113.8 | 4150.0 | 4201.7 | 4276.6 | 4354.1 | 4377.3 | 4529.7 | 4694.9 | 4911.9 | 5105.5 | 5226.9 |
| 10° | 3842.7 | 3845.3 | 3891.8 | 3966.6 | 4090.7 | 4119.1 | 4305.0 | 4540.0 | 4811.1 | 5074.6 | 5273.4 |
| 12.5° | 3690.3 | 3708.4 | 3729.1 | 3785.9 | 3904.7 | 3922.8 | 4121.6 | 4398.0 | 4710.4 | 5056.4 | 5327.6 |
| 15° | 3690.3 | 3703.2 | 3716.1 | 3744.6 | 3840.2 | 3855.6 | 4031.2 | 4307.6 | 4658.7 | 5064.2 | 5415.5 |
| 17.5° | 3729.1 | 3749.8 | 3739.4 | 3773.0 | 3873.7 | 3884.0 | 4039.0 | 4281.7 | 4656.2 | 5113.3 | 5549.8 |
| 20° | 3822.0 | 3837.6 | 3816.9 | 3837.6 | 3938.3 | 3959.0 | 4119.1 | 4330.8 | 4700.1 | 5198.5 | 5717.6 |
| 22.5° | 3969.2 | 3977.0 | 3927.9 | 3943.5 | 4046.7 | 4072.5 | 4258.5 | 4470.2 | 4806.0 | 5335.4 | 5942.2 |
| 25° | 4155.1 | 4170.7 | 4095.8 | 4113.8 | 4212.0 | 4243.0 | 4457.3 | 4679.4 | 4973.8 | 5523.9 | 6228.9 |
| 27.5° | 4369.6 | 4377.3 | 4312.7 | 4310.1 | 4436.7 | 4480.6 | 4697.5 | 4937.7 | 5198.5 | 5761.5 | 6590.4 |
| 30° | 4614.9 | 4638.1 | 4576.1 | 4565.8 | 4726.0 | 4762.0 | 4976.4 | 5255.3 | 5529.1 | 6117.9 | 7104.4 |
| 32.5° | 4808.6 | 4826.6 | 4790.4 | 4816.3 | 4979.0 | 5007.4 | 5314.7 | 5704.6 | 6048.1 | 6624.1 | 7804.2 |
| 35° | 5087.5 | 5097.8 | 5015.1 | 5061.7 | 5247.6 | 5319.9 | 5777.0 | 6334.8 | 6701.6 | 7259.4 | 8718.4 |
| 37.5° | 6097.2 | 6097.2 | 5746.0 | 5516.1 | 5694.4 | 5758.9 | 6409.7 | 7127.6 | 7507.2 | 8111.5 | 9870.2 |
| 40° | 7494.3 | 7471.1 | 6957.2 | 6487.1 | 6464.0 | 6590.4 | 7311.0 | 8127.0 | 8548.0 | 9134.2 | 11166.6 |
| 42.5° | 8984.4 | 8948.2 | 8248.4 | 7783.5 | 7706.1 | 7750.0 | 8351.7 | 9358.9 | 9787.5 | 10381.5 | 12561.2 |
| 45° | 10306.7 | 10296.3 | 9655.9 | 9030.9 | 8891.5 | 9030.9 | 9650.7 | 10799.9 | 11107.2 | 11732.2 | 13953.1 |
| 47.5° | 11414.5 | 11414.5 | 10947.1 | 10539.0 | 10466.8 | 10549.4 | 11409.4 | 12398.4 | 12370.0 | 13170.6 | 15308.9 |
| 50° | 12690.2 | 12680.0 | 12235.7 | 12060.2 | 12135.1 | 12251.2 | 13434.1 | 14082.2 | 13676.8 | 14583.2 | 16520.0 |
| 52.5° | 13583.8 | 13645.8 | 13493.4 | 13465.0 | 13847.2 | 14048.6 | 15489.7 | 15729.9 | 14846.6 | 15923.5 | 17426.5 |
| 55° | 14291.4 | 14363.7 | 14539.3 | 14738.2 | 15474.1 | 15737.5 | 17480.8 | 17292.3 | 15825.4 | 17085.6 | 17948.2 |
| 57.5° | 15293.4 | 15190.1 | 15461.3 | 15853.8 | 17044.3 | 17362.0 | 19409.8 | 18766.8 | 16613.0 | 18028.2 | 18004.9 |
| 60° | 16509.8 | 16525.3 | 16571.7 | 17067.6 | 18611.8 | 19019.9 | 21310.6 | 20161.3 | 17119.2 | 18606.7 | 17374.9 |
| 62.5° | 17971.4 | 17994.7 | 18090.2 | 18852.0 | 20716.6 | 21101.4 | 23335.3 | 21302.8 | 17351.6 | 18444.1 | 15747.9 |
| 65° | 17870.7 | 17968.9 | 19035.4 | 21641.1 | 23916.2 | 24295.9 | 25698.2 | 22103.4 | 17000.4 | 16956.5 | 12821.9 |
| 67.5° | 16279.9 | 16440.0 | 18224.5 | 24972.5 | 28740.3 | 29163.8 | 28554.3 | 22260.9 | 15484.5 | 13186.1 | 8364.6 |
| 70° | 14193.3 | 14250.1 | 16396.1 | 27968.2 | 34326.2 | 34754.9 | 31111.0 | 20528.1 | 11750.3 | 7354.9 | 3747.2 |
| 72.5° | 11083.9 | 11096.9 | 13614.8 | 28662.9 | 37358.1 | 37381.2 | 29104.5 | 15239.2 | 6319.3 | 2825.2 | 1301.5 |
| 75° | 7917.8 | 7840.4 | 9118.7 | 23244.8 | 32867.1 | 33130.6 | 21819.3 | 7148.2 | 2414.6 | 1335.2 | 648.2 |
| 77.5° | 4245.5 | 4330.8 | 5159.7 | 13785.2 | 22705.1 | 23154.4 | 11905.2 | 2060.8 | 1229.3 | 909.1 | 428.7 |
| 80° | 1311.9 | 1384.2 | 2115.1 | 6311.5 | 12860.7 | 13131.9 | 4413.4 | 916.8 | 857.4 | 648.2 | 281.5 |
| 82.5° | 413.2 | 428.7 | 986.5 | 2652.2 | 5338.0 | 5461.9 | 1278.3 | 519.1 | 586.2 | 428.7 | 165.2 |
| 85° | 118.8 | 121.4 | 439.0 | 989.1 | 1319.7 | 1345.5 | 359.0 | 201.4 | 335.7 | 266.0 | 85.2 |
| 87.5° | 12.9 | 41.3 | 165.2 | 165.2 | 116.2 | 113.7 | 38.7 | 43.9 | 95.5 | 33.6 | 15.5 |
| 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° | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 | 5108.1 |
| 2.5° | 5118.4 | 5121.0 | 5087.5 | 5030.7 | 4968.7 | 4917.0 | 4852.5 | 4800.8 | 4764.6 | 4754.4 | 4772.4 |
| 5° | 5154.6 | 5136.6 | 5041.0 | 4867.9 | 4661.4 | 4483.1 | 4284.3 | 4126.8 | 4023.5 | 3979.6 | 3995.0 |
| 7.5° | 5208.8 | 5157.2 | 4948.0 | 4607.2 | 4212.0 | 3860.8 | 3504.4 | 3228.1 | 3052.4 | 2964.7 | 2977.6 |
| 10° | 5255.3 | 5152.1 | 4793.1 | 4230.1 | 3625.8 | 3093.8 | 2613.4 | 2280.3 | 2094.4 | 2006.5 | 2009.2 |
| 12.5° | 5299.2 | 5149.5 | 4591.6 | 3783.3 | 2964.7 | 2313.9 | 1867.1 | 1701.8 | 1650.2 | 1632.1 | 1627.0 |
| 15° | 5381.9 | 5157.2 | 4338.5 | 3272.0 | 2306.1 | 1748.3 | 1585.7 | 1583.0 | 1593.4 | 1588.2 | 1585.7 |
| 17.5° | 5495.5 | 5165.0 | 4051.9 | 2729.7 | 1779.3 | 1541.7 | 1534.0 | 1557.2 | 1572.8 | 1565.0 | 1562.4 |
| 20° | 5642.7 | 5195.9 | 3747.2 | 2192.5 | 1528.8 | 1490.0 | 1508.2 | 1528.8 | 1541.7 | 1528.8 | 1526.2 |
| 22.5° | 5849.3 | 5250.2 | 3414.1 | 1761.3 | 1448.7 | 1459.1 | 1474.6 | 1497.8 | 1510.7 | 1492.7 | 1490.0 |
| 25° | 6102.3 | 5335.4 | 3086.1 | 1531.5 | 1410.0 | 1422.9 | 1446.2 | 1472.0 | 1487.5 | 1469.4 | 1466.9 |
| 27.5° | 6430.3 | 5472.3 | 2783.9 | 1479.8 | 1371.2 | 1379.0 | 1412.7 | 1451.4 | 1472.0 | 1448.7 | 1448.7 |
| 30° | 6905.5 | 5697.0 | 2523.0 | 1503.0 | 1348.1 | 1329.9 | 1376.5 | 1430.7 | 1454.0 | 1433.3 | 1430.7 |
| 32.5° | 7535.7 | 6014.6 | 2362.9 | 1539.1 | 1337.7 | 1273.2 | 1317.0 | 1386.8 | 1425.6 | 1412.7 | 1412.7 |
| 35° | 8362.1 | 6497.5 | 2301.0 | 1580.4 | 1329.9 | 1213.8 | 1244.8 | 1319.7 | 1386.8 | 1399.7 | 1399.7 |
| 37.5° | 9364.0 | 7169.0 | 2319.1 | 1598.6 | 1306.8 | 1164.7 | 1180.2 | 1244.8 | 1332.6 | 1373.9 | 1384.2 |
| 40° | 10502.9 | 7951.4 | 2422.4 | 1580.4 | 1280.9 | 1123.4 | 1126.0 | 1175.1 | 1252.4 | 1314.5 | 1335.2 |
| 42.5° | 11677.9 | 8865.6 | 2613.4 | 1513.3 | 1257.7 | 1087.2 | 1079.4 | 1113.0 | 1164.7 | 1208.6 | 1226.7 |
| 45° | 12796.1 | 9805.7 | 2801.9 | 1420.3 | 1229.3 | 1051.0 | 1033.0 | 1045.9 | 1056.3 | 1074.3 | 1084.7 |
| 47.5° | 13772.3 | 10466.8 | 2747.7 | 1335.2 | 1190.5 | 1009.7 | 978.8 | 973.5 | 942.6 | 940.0 | 937.5 |
| 50° | 14446.4 | 10611.4 | 2440.4 | 1249.9 | 1133.8 | 963.3 | 914.2 | 883.2 | 829.0 | 803.2 | 805.8 |
| 52.5° | 14660.7 | 10040.7 | 1993.6 | 1164.7 | 1040.8 | 901.3 | 831.6 | 782.5 | 715.3 | 692.1 | 689.5 |
| 55° | 14376.6 | 8922.4 | 1593.4 | 1061.4 | 911.6 | 818.7 | 741.2 | 676.6 | 622.4 | 594.0 | 594.0 |
| 57.5° | 13681.9 | 7499.5 | 1260.2 | 940.0 | 774.7 | 725.7 | 648.2 | 583.6 | 537.2 | 508.7 | 503.6 |
| 60° | 12530.1 | 5955.1 | 996.8 | 795.4 | 661.1 | 624.9 | 544.9 | 503.6 | 462.3 | 428.7 | 421.0 |
| 62.5° | 10781.8 | 4250.8 | 782.5 | 630.2 | 552.7 | 511.4 | 464.8 | 433.9 | 384.8 | 338.4 | 330.6 |
| 65° | 8413.7 | 2600.5 | 604.3 | 462.3 | 444.2 | 423.5 | 395.1 | 366.7 | 307.3 | 260.9 | 253.1 |
| 67.5° | 5306.9 | 1231.8 | 431.3 | 348.6 | 351.2 | 340.9 | 328.0 | 304.7 | 260.9 | 219.6 | 214.3 |
| 70° | 2337.1 | 596.6 | 284.0 | 266.0 | 260.9 | 260.9 | 271.1 | 263.4 | 222.1 | 183.4 | 175.6 |
| 72.5° | 795.4 | 320.2 | 211.8 | 201.4 | 188.5 | 185.9 | 227.2 | 219.6 | 178.1 | 142.1 | 134.3 |
| 75° | 415.7 | 214.3 | 155.0 | 144.6 | 113.7 | 136.8 | 180.8 | 170.5 | 126.6 | 93.0 | 85.2 |
| 77.5° | 271.1 | 152.3 | 105.9 | 93.0 | 64.6 | 90.4 | 134.3 | 118.8 | 74.9 | 46.5 | 41.3 |
| 80° | 170.5 | 100.8 | 62.0 | 43.9 | 31.0 | 49.1 | 72.3 | 51.7 | 28.4 | 10.4 | 7.8 |
| 82.5° | 90.4 | 51.7 | 23.3 | 15.5 | 12.9 | 15.5 | 18.0 | 12.9 | 5.1 | 0.0 | 0.0 |
| 85° | 36.2 | 18.0 | 7.8 | 5.1 | 2.6 | 0.0 | 5.1 | 2.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.9 | 2.6 | 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 |

(END OF REPORT)