

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: P965205

Luminaire Tested: **NVN-SB3D-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965205
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-SB3D-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27676 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

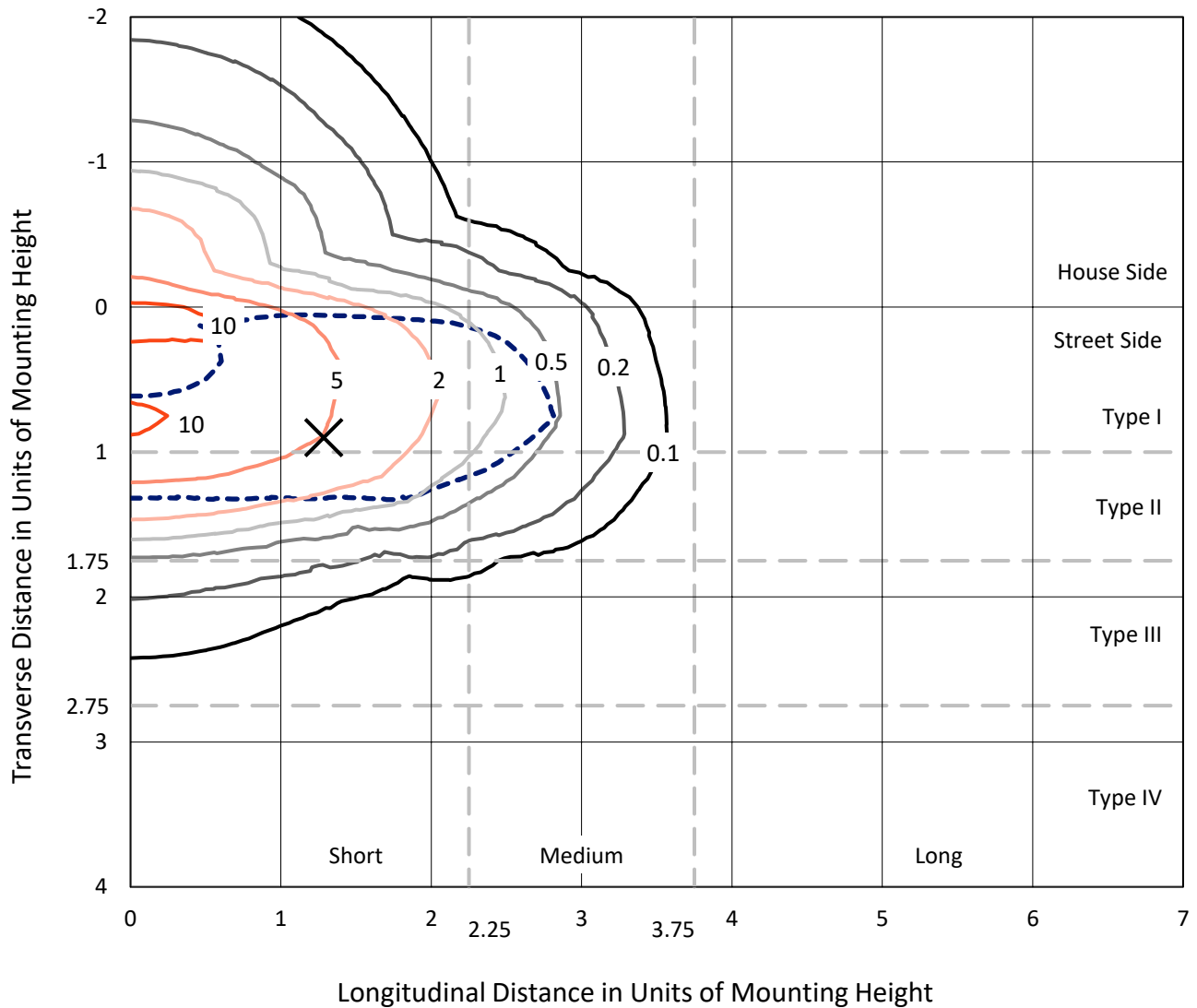
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

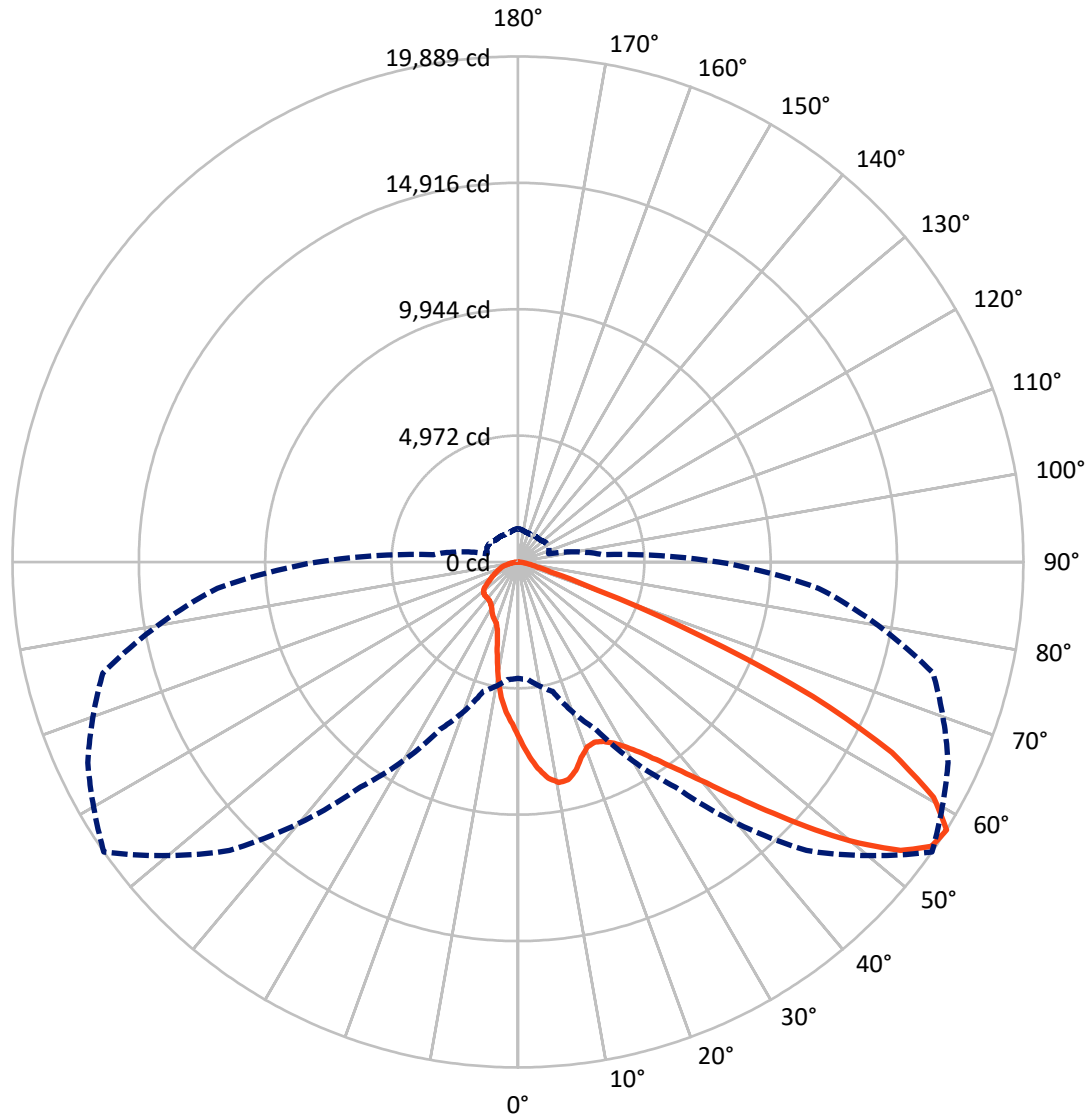
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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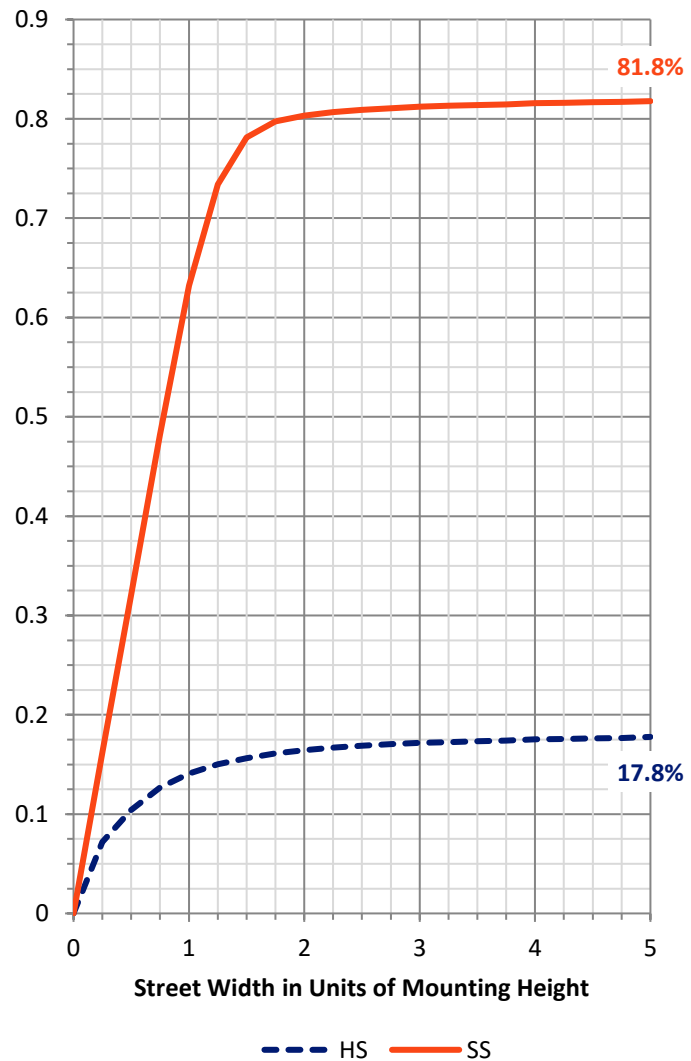
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5007.8 | 0.0 | 5007.8 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 22668.2 | 0.0 | 22668.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 27676.0 | 0.0 | 27676.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 643.5 | 2.3 |
| 10°-20° | 1624.2 | 5.9 |
| 20°-30° | 2591.8 | 9.4 |
| 30°-40° | 4103.5 | 14.8 |
| 40°-50° | 6280.8 | 22.7 |
| 50°-60° | 6727.3 | 24.3 |
| 60°-70° | 4232.2 | 15.3 |
| 70°-80° | 1251.5 | 4.5 |
| 80°-90° | 221.3 | 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° | 27676.0 | 100.0 |
| 0°-180° | 27676.0 | 100.0 |

Coefficient of Utilization



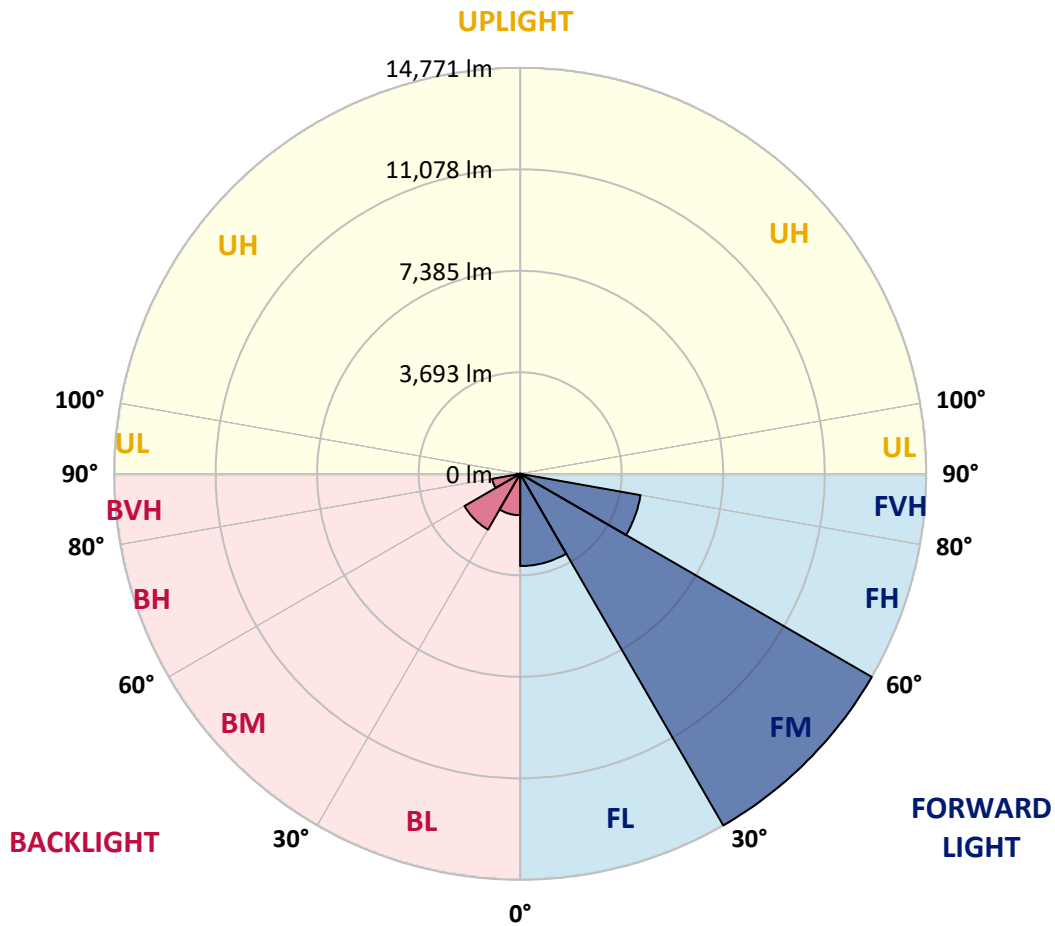
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3354.3 | 12.1 | | | |
| FM (30°-60°) | 14770.9 | 53.4 | | | |
| FH (60°-80°) | 4449.5 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 93.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1505.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2340.6 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1034.2 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 127.8 | 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° | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 |
| 2.5° | 7956.3 | 7950.5 | 7982.0 | 7874.7 | 7801.7 | 7703.0 | 7572.8 | 7406.9 | 7228.0 | 7039.2 | 6957.6 |
| 5° | 8673.0 | 8623.0 | 8655.9 | 8575.8 | 8495.6 | 8346.9 | 8153.7 | 7883.3 | 7552.8 | 7176.5 | 6976.3 |
| 7.5° | 8560.0 | 8525.6 | 8610.1 | 8681.6 | 8741.7 | 8723.2 | 8581.5 | 8298.2 | 7871.8 | 7325.3 | 7034.9 |
| 10° | 7648.7 | 7610.0 | 7728.8 | 7976.2 | 8339.7 | 8655.9 | 8827.6 | 8651.6 | 8198.1 | 7488.4 | 7092.1 |
| 12.5° | 6844.5 | 6826.0 | 6904.7 | 7105.0 | 7508.4 | 8115.0 | 8796.0 | 8960.7 | 8537.1 | 7681.6 | 7169.4 |
| 15° | 6501.2 | 6478.3 | 6528.4 | 6630.0 | 6887.5 | 7452.7 | 8510.0 | 9172.3 | 8870.5 | 7904.7 | 7292.4 |
| 17.5° | 6425.4 | 6399.6 | 6421.1 | 6474.0 | 6640.0 | 7070.7 | 8077.8 | 9276.8 | 9218.1 | 8153.7 | 7395.4 |
| 20° | 6565.6 | 6544.1 | 6547.0 | 6544.1 | 6660.0 | 7002.0 | 7777.4 | 9236.8 | 9521.4 | 8382.7 | 7495.5 |
| 22.5° | 6904.7 | 6868.9 | 6870.4 | 6794.5 | 6857.5 | 7122.1 | 7698.7 | 9129.5 | 9791.8 | 8582.9 | 7571.4 |
| 25° | 7457.0 | 7392.5 | 7405.4 | 7212.3 | 7195.1 | 7391.1 | 7821.8 | 9046.4 | 10060.9 | 8743.1 | 7585.7 |
| 27.5° | 8212.3 | 8139.4 | 8100.8 | 7813.2 | 7675.8 | 7773.1 | 8072.2 | 9075.0 | 10315.5 | 8881.9 | 7549.9 |
| 30° | 9156.6 | 9068.0 | 8989.2 | 8581.5 | 8332.5 | 8296.8 | 8461.3 | 9263.9 | 10615.9 | 9027.9 | 7488.4 |
| 32.5° | 10314.1 | 10211.0 | 10068.0 | 9527.2 | 9176.6 | 8989.2 | 8965.0 | 9600.2 | 10967.9 | 9213.8 | 7457.0 |
| 35° | 11691.9 | 11557.4 | 11354.2 | 10654.6 | 10211.0 | 9827.6 | 9628.7 | 10085.2 | 11450.1 | 9494.3 | 7492.6 |
| 37.5° | 13111.2 | 12959.5 | 12773.4 | 11940.8 | 11395.7 | 10830.6 | 10438.6 | 10743.3 | 12092.4 | 9874.8 | 7587.2 |
| 40° | 14420.2 | 14250.0 | 14076.8 | 13335.8 | 12750.6 | 12069.6 | 11430.1 | 11575.9 | 12877.9 | 10329.8 | 7747.4 |
| 42.5° | 15192.9 | 15067.0 | 15001.1 | 14600.5 | 14148.4 | 13457.4 | 12663.4 | 12563.2 | 13760.7 | 10853.4 | 7930.5 |
| 45° | 15158.5 | 15107.0 | 15310.1 | 15476.2 | 15368.8 | 14985.4 | 14108.4 | 13654.8 | 14646.3 | 11307.0 | 8099.3 |
| 47.5° | 14348.8 | 14383.1 | 14836.6 | 15769.4 | 16180.0 | 16380.3 | 15753.7 | 14726.4 | 15416.0 | 11646.0 | 8175.2 |
| 50° | 12145.4 | 12174.0 | 13224.1 | 15235.8 | 16388.9 | 17517.8 | 17386.2 | 15772.3 | 16012.7 | 11853.5 | 8158.0 |
| 52.5° | 10401.4 | 10419.9 | 10870.6 | 13653.4 | 15699.3 | 18090.0 | 18856.9 | 16758.0 | 16449.0 | 11910.8 | 8062.1 |
| 55° | 7834.6 | 7899.1 | 8404.1 | 10711.9 | 13905.2 | 17636.6 | 19752.6 | 17773.9 | 16725.1 | 11916.4 | 7962.0 |
| 57.5° | 4576.9 | 4646.9 | 5270.8 | 7270.9 | 10807.7 | 16055.6 | 19888.5 | 18675.2 | 16912.6 | 11870.7 | 7901.9 |
| 60° | 2242.0 | 2272.0 | 2543.8 | 3821.5 | 6664.3 | 13009.6 | 18795.4 | 19111.6 | 17017.0 | 11846.3 | 7899.1 |
| 62.5° | 1510.8 | 1506.5 | 1518.0 | 1885.7 | 3283.5 | 8358.3 | 16517.7 | 18347.6 | 16961.2 | 11753.4 | 7870.4 |
| 65° | 1299.1 | 1283.4 | 1240.5 | 1323.4 | 1701.1 | 3822.9 | 12762.1 | 16067.0 | 16536.3 | 11520.2 | 7674.4 |
| 67.5° | 1123.1 | 1124.5 | 1126.0 | 1100.2 | 1214.7 | 1764.1 | 7798.9 | 12656.2 | 15011.1 | 10415.6 | 6919.0 |
| 70° | 930.0 | 942.9 | 948.5 | 948.5 | 990.0 | 1157.4 | 3329.3 | 8674.5 | 11840.7 | 8166.6 | 5572.6 |
| 72.5° | 847.0 | 819.8 | 822.7 | 808.3 | 808.3 | 881.3 | 1340.6 | 4917.4 | 7459.7 | 4594.0 | 3400.8 |
| 75° | 691.1 | 708.2 | 711.0 | 701.1 | 668.2 | 672.4 | 795.5 | 2063.1 | 3192.0 | 1905.7 | 1681.1 |
| 77.5° | 596.7 | 596.7 | 602.3 | 595.2 | 569.4 | 503.6 | 530.8 | 799.8 | 1085.9 | 781.2 | 839.9 |
| 80° | 479.3 | 477.9 | 502.1 | 516.5 | 476.4 | 372.0 | 339.1 | 442.1 | 482.2 | 343.4 | 436.3 |
| 82.5° | 233.2 | 247.5 | 344.8 | 393.5 | 361.9 | 269.0 | 207.5 | 274.7 | 257.5 | 151.7 | 196.0 |
| 85° | 135.9 | 128.7 | 154.5 | 218.9 | 207.5 | 148.8 | 100.1 | 143.1 | 134.5 | 77.3 | 78.7 |
| 87.5° | 42.9 | 40.1 | 31.5 | 74.4 | 60.1 | 41.5 | 27.2 | 41.5 | 37.2 | 17.1 | 17.1 |
| 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° | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 | 6934.7 |
| 2.5° | 6856.0 | 6687.2 | 6519.8 | 6366.7 | 6273.7 | 6213.7 | 6153.6 | 6086.2 | 6060.5 | 6021.9 |
| 5° | 6787.3 | 6461.2 | 6170.7 | 5920.3 | 5692.8 | 5514.0 | 5333.7 | 5187.8 | 5122.0 | 5166.3 |
| 7.5° | 6747.3 | 6275.2 | 5827.3 | 5368.0 | 4925.9 | 4572.6 | 4265.0 | 4049.0 | 3951.7 | 3976.0 |
| 10° | 6711.5 | 6064.8 | 5382.4 | 4657.0 | 4021.8 | 3583.9 | 3269.2 | 3104.6 | 3043.1 | 3056.0 |
| 12.5° | 6678.6 | 5828.8 | 4845.9 | 3891.5 | 3216.2 | 2927.3 | 2837.1 | 2838.5 | 2850.0 | 2858.6 |
| 15° | 6672.9 | 5544.0 | 4246.4 | 3222.0 | 2781.3 | 2762.7 | 2860.1 | 2921.6 | 2954.5 | 2964.5 |
| 17.5° | 6664.3 | 5203.5 | 3635.5 | 2765.6 | 2675.5 | 2801.3 | 2891.5 | 2931.5 | 2957.3 | 2958.8 |
| 20° | 6630.0 | 4771.5 | 3071.7 | 2548.1 | 2652.6 | 2761.2 | 2817.1 | 2848.6 | 2870.0 | 2877.2 |
| 22.5° | 6524.1 | 4290.8 | 2632.5 | 2450.9 | 2561.0 | 2648.3 | 2714.1 | 2749.9 | 2762.7 | 2771.3 |
| 25° | 6333.8 | 3752.8 | 2329.2 | 2357.8 | 2433.7 | 2543.8 | 2596.7 | 2603.9 | 2599.6 | 2612.5 |
| 27.5° | 6084.9 | 3176.2 | 2140.4 | 2231.9 | 2329.2 | 2423.6 | 2452.2 | 2448.0 | 2439.4 | 2453.6 |
| 30° | 5784.4 | 2658.2 | 2020.2 | 2090.3 | 2223.3 | 2309.2 | 2335.0 | 2324.9 | 2307.8 | 2323.5 |
| 32.5° | 5466.8 | 2234.8 | 1921.5 | 1991.6 | 2136.1 | 2220.5 | 2246.2 | 2236.2 | 2223.3 | 2236.2 |
| 35° | 5170.6 | 1938.6 | 1829.9 | 1925.8 | 2067.4 | 2150.3 | 2183.2 | 2184.7 | 2184.7 | 2200.5 |
| 37.5° | 4898.8 | 1765.6 | 1754.1 | 1884.3 | 2020.2 | 2094.6 | 2141.8 | 2144.6 | 2083.1 | 2087.4 |
| 40° | 4646.9 | 1692.6 | 1719.7 | 1857.1 | 1974.4 | 2045.9 | 2048.8 | 1888.6 | 1775.5 | 1772.6 |
| 42.5° | 4440.9 | 1678.2 | 1729.8 | 1854.2 | 1941.5 | 1944.3 | 1742.6 | 1618.2 | 1586.7 | 1588.1 |
| 45° | 4247.8 | 1673.9 | 1752.6 | 1854.2 | 1892.9 | 1679.7 | 1543.8 | 1510.8 | 1513.7 | 1525.2 |
| 47.5° | 4031.7 | 1656.8 | 1757.0 | 1828.5 | 1752.6 | 1493.6 | 1453.7 | 1439.3 | 1433.6 | 1436.4 |
| 50° | 3795.7 | 1595.2 | 1702.5 | 1776.9 | 1512.3 | 1413.6 | 1363.5 | 1359.1 | 1366.3 | 1370.6 |
| 52.5° | 3546.8 | 1495.1 | 1609.6 | 1684.0 | 1402.1 | 1343.5 | 1287.6 | 1297.6 | 1329.1 | 1339.2 |
| 55° | 3383.6 | 1377.8 | 1486.6 | 1497.9 | 1324.8 | 1277.7 | 1230.4 | 1253.3 | 1312.0 | 1330.6 |
| 57.5° | 3340.8 | 1253.3 | 1346.3 | 1333.4 | 1226.1 | 1220.4 | 1191.8 | 1211.9 | 1286.2 | 1313.4 |
| 60° | 3327.9 | 1141.7 | 1209.0 | 1198.9 | 1130.3 | 1157.4 | 1150.3 | 1160.3 | 1186.0 | 1194.6 |
| 62.5° | 3227.7 | 1053.0 | 1085.9 | 1071.6 | 1044.5 | 1091.6 | 1108.8 | 1087.3 | 1107.4 | 1117.4 |
| 65° | 2973.0 | 981.4 | 965.8 | 955.7 | 967.2 | 1010.1 | 1044.5 | 1001.5 | 1020.1 | 1048.7 |
| 67.5° | 2552.5 | 884.2 | 841.2 | 852.7 | 888.5 | 911.3 | 955.7 | 907.1 | 922.8 | 971.5 |
| 70° | 2064.6 | 761.2 | 722.5 | 755.4 | 789.8 | 837.0 | 844.1 | 811.2 | 848.4 | 902.8 |
| 72.5° | 1460.7 | 636.6 | 609.5 | 676.7 | 688.2 | 749.7 | 734.0 | 718.2 | 769.8 | 788.3 |
| 75° | 1012.9 | 513.6 | 497.8 | 549.4 | 590.9 | 643.8 | 632.4 | 651.0 | 759.7 | 768.3 |
| 77.5° | 640.9 | 399.1 | 389.2 | 422.1 | 479.3 | 537.9 | 556.6 | 768.3 | 1297.6 | 1349.2 |
| 80° | 372.0 | 297.6 | 286.2 | 311.9 | 361.9 | 416.4 | 536.5 | 942.9 | 855.6 | 845.5 |
| 82.5° | 207.5 | 204.6 | 190.2 | 197.4 | 241.8 | 300.4 | 758.3 | 663.9 | 539.4 | 556.6 |
| 85° | 97.3 | 120.1 | 103.0 | 98.7 | 135.9 | 352.0 | 506.5 | 379.1 | 251.8 | 246.1 |
| 87.5° | 25.7 | 22.9 | 22.9 | 25.7 | 57.2 | 303.3 | 201.7 | 161.6 | 95.8 | 93.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)