

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: McGRAW-EDISON

Report Number: P948102

Luminaire Tested: **GALN-SB3B-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14066 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

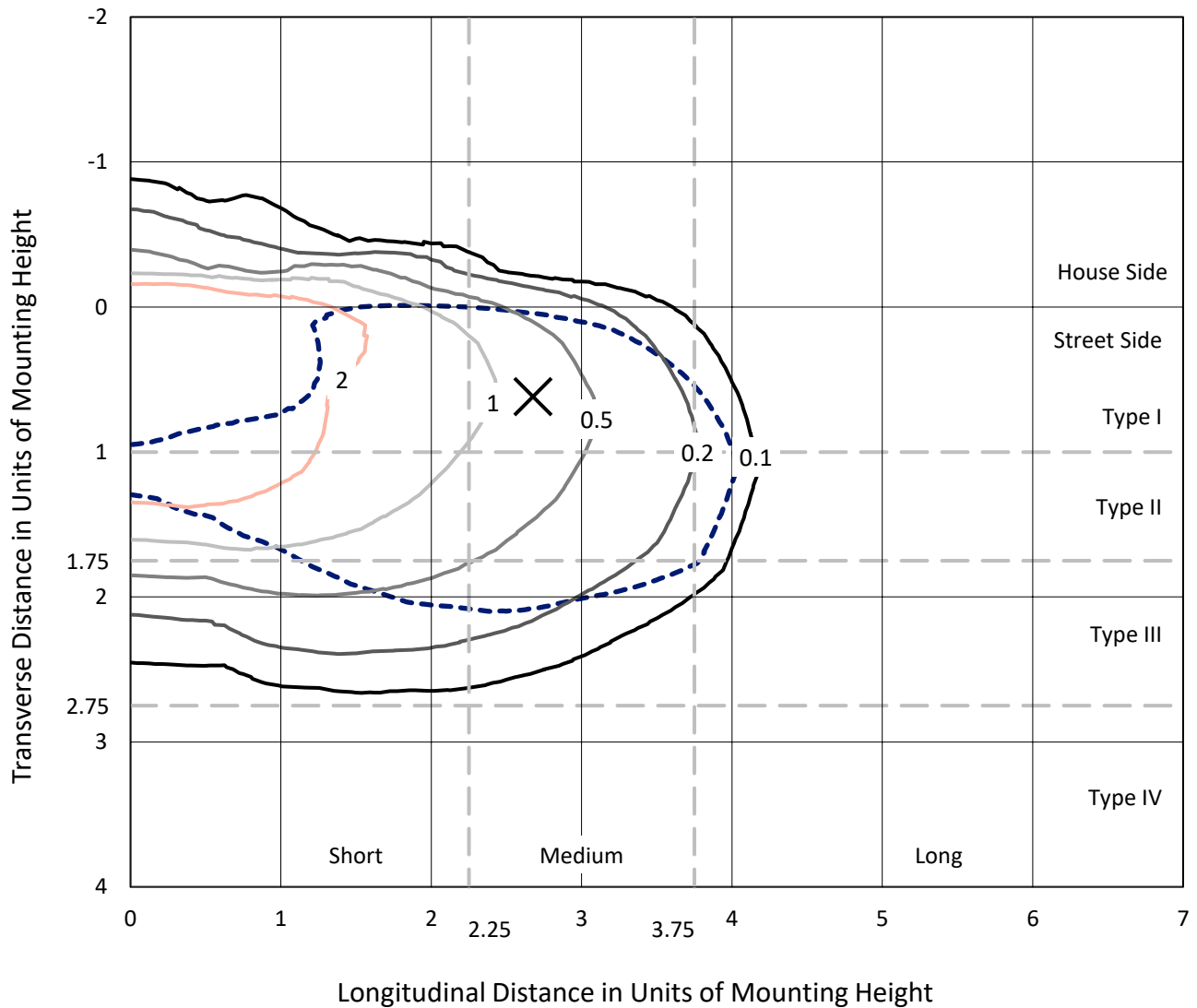
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

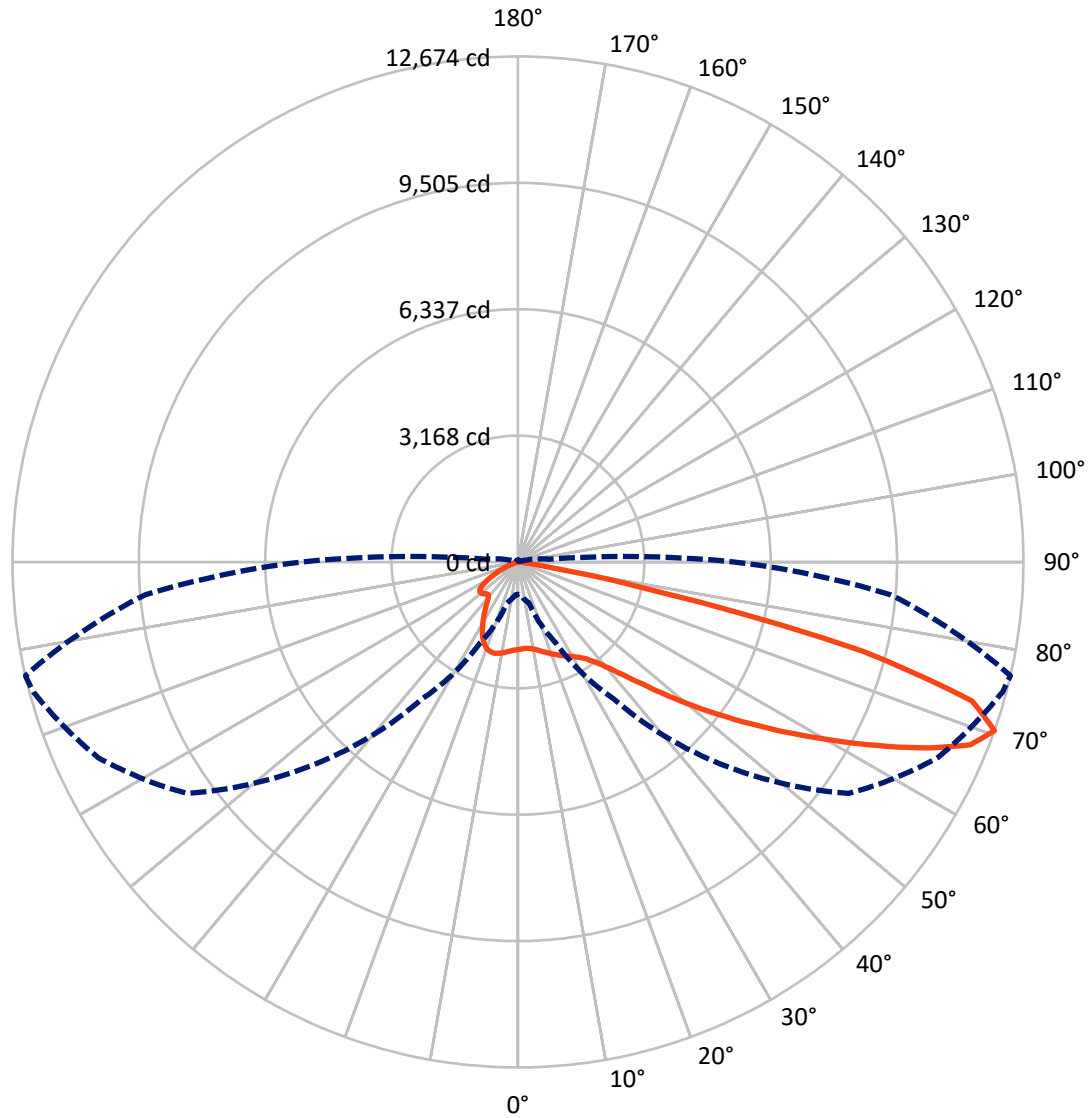
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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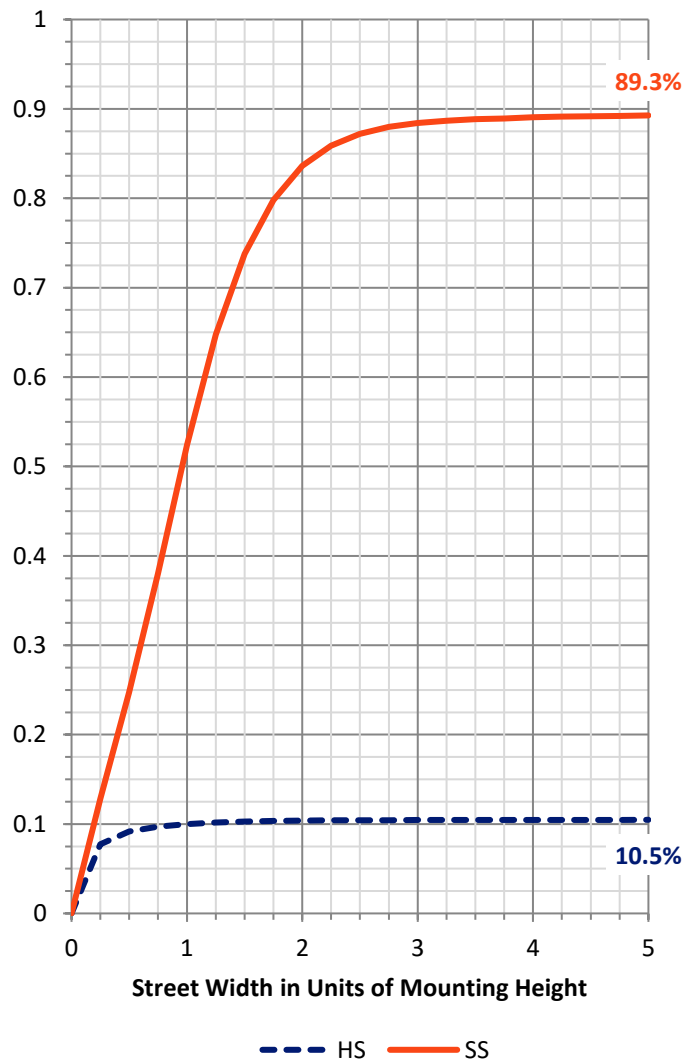
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1482.8 | 0.0 | 1482.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 12583.2 | 0.0 | 12583.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 14066.0 | 0.0 | 14066.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 189.1 | 1.3 |
| 10°-20° | 448.9 | 3.2 |
| 20°-30° | 694.3 | 4.9 |
| 30°-40° | 1259.8 | 9.0 |
| 40°-50° | 2378.1 | 16.9 |
| 50°-60° | 3436.1 | 24.4 |
| 60°-70° | 3657.7 | 26.0 |
| 70°-80° | 1938.3 | 13.8 |
| 80°-90° | 63.6 | 0.5 |
| 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° | 14066.0 | 100.0 |
| 0°-180° | 14066.0 | 100.0 |

Coefficient of Utilization



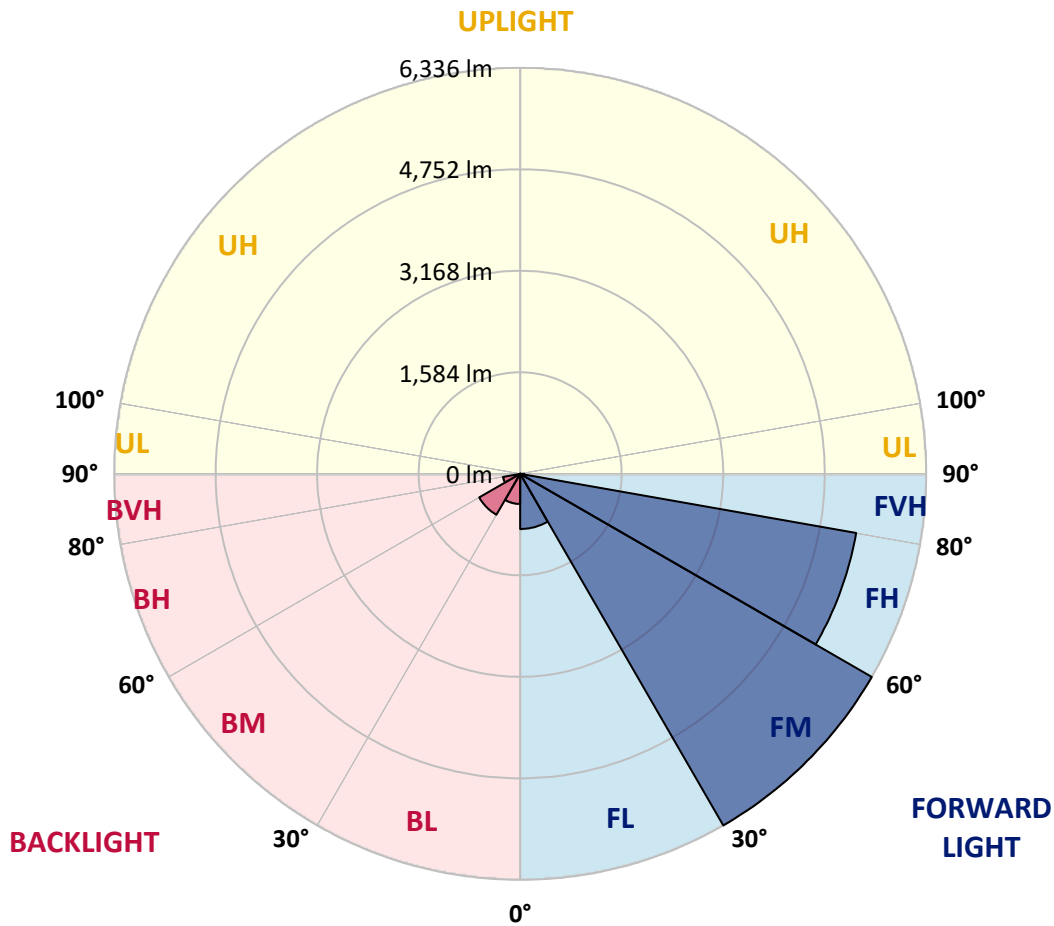
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 861.2 | 6.1 | | | |
| FM (30°-60°) | 6336.0 | 45.0 | | | |
| FH (60°-80°) | 5324.2 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 61.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 471.1 | 3.3 | B1/500 | | |
| BM (30°-60°) | 738.1 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 271.8 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 |
| 2.5° | 2059.9 | 2078.6 | 2075.9 | 2088.3 | 2092.8 | 2110.5 | 2128.3 | 2152.3 | 2178.9 | 2178.1 | 2195.8 |
| 5° | 1943.5 | 1962.2 | 1966.6 | 1983.5 | 2004.8 | 2032.4 | 2068.8 | 2116.8 | 2166.5 | 2174.5 | 2210.0 |
| 7.5° | 1805.9 | 1825.4 | 1837.0 | 1870.7 | 1909.8 | 1966.6 | 2026.2 | 2096.3 | 2178.9 | 2190.5 | 2258.9 |
| 10° | 1668.2 | 1685.9 | 1701.0 | 1749.0 | 1811.2 | 1895.6 | 1992.4 | 2093.7 | 2204.7 | 2221.6 | 2318.4 |
| 12.5° | 1582.9 | 1599.8 | 1616.7 | 1658.4 | 1735.7 | 1838.7 | 1970.2 | 2106.1 | 2247.3 | 2271.3 | 2399.2 |
| 15° | 1552.7 | 1567.8 | 1581.1 | 1618.4 | 1690.4 | 1807.6 | 1965.8 | 2131.9 | 2301.5 | 2333.5 | 2496.9 |
| 17.5° | 1557.1 | 1565.1 | 1574.0 | 1602.5 | 1672.6 | 1793.4 | 1973.7 | 2176.3 | 2365.5 | 2393.9 | 2594.7 |
| 20° | 1582.9 | 1587.3 | 1588.2 | 1607.8 | 1670.0 | 1791.7 | 1989.7 | 2218.9 | 2425.9 | 2464.1 | 2691.5 |
| 22.5° | 1615.8 | 1617.6 | 1615.8 | 1629.1 | 1686.8 | 1805.0 | 2011.1 | 2270.4 | 2493.4 | 2528.9 | 2789.2 |
| 25° | 1769.4 | 1735.7 | 1693.1 | 1667.3 | 1715.3 | 1830.7 | 2043.0 | 2339.7 | 2567.1 | 2601.8 | 2884.2 |
| 27.5° | 2246.5 | 2149.6 | 1996.8 | 1825.4 | 1773.9 | 1868.0 | 2087.4 | 2409.9 | 2641.7 | 2672.8 | 2986.4 |
| 30° | 3021.0 | 2894.0 | 2634.6 | 2248.2 | 1962.2 | 1946.2 | 2145.2 | 2480.1 | 2720.8 | 2754.5 | 3095.6 |
| 32.5° | 3797.4 | 3766.3 | 3466.9 | 2932.2 | 2385.9 | 2120.3 | 2241.1 | 2575.1 | 2825.6 | 2852.3 | 3243.1 |
| 35° | 4582.6 | 4519.5 | 4274.4 | 3745.9 | 3038.8 | 2474.7 | 2401.0 | 2699.5 | 2963.3 | 2993.5 | 3458.1 |
| 37.5° | 5184.0 | 5145.8 | 4993.9 | 4558.6 | 3813.4 | 3021.9 | 2674.6 | 2892.2 | 3163.2 | 3196.9 | 3733.4 |
| 40° | 5715.2 | 5697.4 | 5645.9 | 5359.0 | 4679.4 | 3737.9 | 3100.1 | 3190.7 | 3440.3 | 3480.3 | 4071.0 |
| 42.5° | 6132.7 | 6174.4 | 6203.7 | 6123.8 | 5572.2 | 4555.1 | 3672.1 | 3610.0 | 3826.7 | 3867.6 | 4500.9 |
| 45° | 6559.9 | 6574.1 | 6692.3 | 6807.7 | 6458.7 | 5409.6 | 4317.0 | 4101.2 | 4307.3 | 4357.9 | 5016.1 |
| 47.5° | 6834.4 | 6891.2 | 7099.1 | 7302.5 | 7203.9 | 6257.0 | 5009.9 | 4681.2 | 4864.2 | 4959.2 | 5593.5 |
| 50° | 6854.8 | 6962.3 | 7248.3 | 7602.8 | 7746.7 | 7063.6 | 5763.1 | 5342.1 | 5536.6 | 5641.4 | 6209.9 |
| 52.5° | 6514.6 | 6681.6 | 7124.9 | 7643.6 | 8039.8 | 7746.7 | 6542.2 | 6003.0 | 6252.6 | 6389.4 | 6849.5 |
| 55° | 4994.8 | 5213.3 | 6660.3 | 7421.5 | 8051.3 | 8264.5 | 7300.7 | 6691.4 | 7050.2 | 7204.8 | 7540.6 |
| 57.5° | 4351.7 | 4461.8 | 5236.4 | 7036.0 | 7837.3 | 8473.3 | 7986.5 | 7346.9 | 7918.1 | 8110.0 | 8193.5 |
| 60° | 3620.6 | 3765.4 | 4391.6 | 6405.4 | 7546.8 | 8493.7 | 8592.3 | 8192.6 | 8858.8 | 9074.6 | 8792.2 |
| 62.5° | 2460.5 | 2617.7 | 3240.4 | 5321.7 | 7149.7 | 8483.9 | 9088.8 | 9063.1 | 9904.3 | 10136.1 | 9299.4 |
| 65° | 1524.3 | 1622.9 | 2033.3 | 4345.4 | 6594.6 | 8494.6 | 9608.5 | 10120.1 | 11007.5 | 11242.9 | 9692.0 |
| 67.5° | 1204.5 | 1249.8 | 1463.9 | 3336.4 | 5637.9 | 8254.7 | 10127.2 | 11114.1 | 12045.9 | 12232.5 | 9811.9 |
| 70° | 809.2 | 836.8 | 1065.0 | 2236.7 | 4194.4 | 7148.0 | 10117.5 | 11613.3 | 12580.7 | 12673.9 | 9374.9 |
| 72.5° | 426.4 | 447.7 | 622.7 | 1035.7 | 2533.4 | 5080.9 | 8528.3 | 11016.4 | 12048.6 | 11908.2 | 8013.1 |
| 75° | 213.2 | 248.7 | 419.3 | 525.9 | 1081.9 | 2833.6 | 5295.9 | 8685.6 | 9483.2 | 8939.6 | 5141.3 |
| 77.5° | 161.7 | 195.4 | 346.4 | 346.4 | 376.6 | 954.0 | 2242.9 | 4737.2 | 4369.4 | 3638.4 | 1509.2 |
| 80° | 103.0 | 133.2 | 302.9 | 262.0 | 157.2 | 242.5 | 584.5 | 1327.1 | 928.2 | 706.2 | 274.5 |
| 82.5° | 60.4 | 87.1 | 252.3 | 173.2 | 87.9 | 89.7 | 165.2 | 282.5 | 240.7 | 187.4 | 84.4 |
| 85° | 24.0 | 56.8 | 173.2 | 68.4 | 34.6 | 22.2 | 49.7 | 60.4 | 49.7 | 37.3 | 21.3 |
| 87.5° | 0.0 | 13.3 | 30.2 | 0.0 | 2.7 | 1.8 | 3.6 | 4.4 | 4.4 | 3.6 | 7.1 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 | 2194.0 |
| 2.5° | 2203.8 | 2205.6 | 2210.9 | 2211.8 | 2199.4 | 2183.4 | 2177.2 | 2174.5 | 2163.8 | 2163.0 | 2164.7 |
| 5° | 2230.5 | 2238.5 | 2230.5 | 2207.4 | 2152.3 | 2075.0 | 2016.4 | 1968.4 | 1924.9 | 1911.6 | 1903.6 |
| 7.5° | 2283.8 | 2291.8 | 2267.8 | 2177.2 | 2038.6 | 1884.9 | 1746.4 | 1648.6 | 1560.7 | 1527.8 | 1514.5 |
| 10° | 2360.1 | 2370.8 | 2295.3 | 2112.3 | 1867.2 | 1620.2 | 1385.7 | 1220.5 | 1091.7 | 1039.3 | 1017.1 |
| 12.5° | 2456.1 | 2460.5 | 2310.4 | 2013.7 | 1644.2 | 1291.6 | 959.3 | 782.6 | 668.0 | 625.3 | 612.0 |
| 15° | 2561.8 | 2555.6 | 2312.2 | 1879.6 | 1340.4 | 913.1 | 626.2 | 514.3 | 468.1 | 453.9 | 453.9 |
| 17.5° | 2672.8 | 2647.1 | 2276.7 | 1685.9 | 1007.3 | 624.5 | 464.6 | 437.9 | 429.9 | 426.4 | 425.5 |
| 20° | 2782.1 | 2724.3 | 2211.8 | 1432.8 | 723.1 | 466.3 | 421.9 | 413.9 | 409.5 | 407.7 | 405.9 |
| 22.5° | 2881.6 | 2783.0 | 2100.8 | 1138.8 | 525.0 | 412.2 | 398.8 | 391.7 | 383.7 | 380.2 | 379.3 |
| 25° | 2978.4 | 2816.7 | 1944.4 | 864.3 | 420.2 | 385.5 | 374.9 | 361.5 | 350.9 | 346.4 | 344.7 |
| 27.5° | 3072.5 | 2838.0 | 1749.0 | 639.6 | 374.9 | 360.6 | 341.1 | 322.4 | 314.4 | 312.7 | 310.9 |
| 30° | 3172.9 | 2845.1 | 1526.9 | 477.0 | 347.3 | 329.6 | 301.1 | 279.8 | 275.4 | 276.3 | 276.3 |
| 32.5° | 3295.5 | 2855.8 | 1303.1 | 390.8 | 324.2 | 292.2 | 258.5 | 236.3 | 232.7 | 236.3 | 235.4 |
| 35° | 3442.1 | 2877.1 | 1087.2 | 359.8 | 303.8 | 254.0 | 217.6 | 199.0 | 195.4 | 198.1 | 197.2 |
| 37.5° | 3641.0 | 2911.8 | 885.6 | 353.5 | 286.9 | 222.1 | 183.0 | 167.9 | 167.9 | 168.8 | 167.9 |
| 40° | 3905.8 | 3004.1 | 705.3 | 349.1 | 278.0 | 198.1 | 154.6 | 148.3 | 151.0 | 152.8 | 152.8 |
| 42.5° | 4228.2 | 3200.5 | 583.6 | 343.8 | 268.3 | 187.4 | 140.3 | 137.7 | 142.1 | 143.9 | 143.9 |
| 45° | 4589.7 | 3449.2 | 541.0 | 334.9 | 259.4 | 194.5 | 134.1 | 130.6 | 135.9 | 136.8 | 137.7 |
| 47.5° | 4963.7 | 3692.6 | 535.6 | 325.1 | 250.5 | 205.2 | 132.4 | 124.4 | 130.6 | 131.5 | 132.4 |
| 50° | 5342.1 | 3851.6 | 541.0 | 310.0 | 236.3 | 205.2 | 133.2 | 118.1 | 123.5 | 126.1 | 127.0 |
| 52.5° | 5723.2 | 3924.4 | 537.4 | 277.1 | 211.4 | 192.8 | 133.2 | 112.8 | 118.1 | 119.9 | 119.9 |
| 55° | 6092.7 | 3910.2 | 483.2 | 228.3 | 179.4 | 170.5 | 129.7 | 108.4 | 111.9 | 112.8 | 112.8 |
| 57.5° | 6384.9 | 3712.1 | 382.8 | 177.7 | 145.7 | 142.1 | 118.1 | 103.0 | 105.7 | 104.8 | 104.8 |
| 60° | 6537.7 | 3276.9 | 273.6 | 136.8 | 114.6 | 111.9 | 103.9 | 95.9 | 97.7 | 93.3 | 92.4 |
| 62.5° | 6539.5 | 2701.2 | 183.0 | 108.4 | 91.5 | 88.8 | 88.8 | 86.2 | 84.4 | 75.5 | 72.8 |
| 65° | 6400.0 | 2062.6 | 121.7 | 86.2 | 73.7 | 69.3 | 74.6 | 73.7 | 67.5 | 55.1 | 53.3 |
| 67.5° | 6083.8 | 1352.0 | 92.4 | 67.5 | 56.8 | 54.2 | 59.5 | 62.2 | 57.7 | 46.2 | 45.3 |
| 70° | 5433.6 | 787.0 | 76.4 | 52.4 | 42.6 | 40.0 | 48.0 | 53.3 | 48.0 | 37.3 | 35.5 |
| 72.5° | 4513.3 | 424.6 | 62.2 | 39.1 | 29.3 | 26.6 | 38.2 | 43.5 | 38.2 | 27.5 | 26.6 |
| 75° | 2928.6 | 227.4 | 48.0 | 25.8 | 15.1 | 16.9 | 28.4 | 32.0 | 26.6 | 17.8 | 16.0 |
| 77.5° | 983.3 | 100.4 | 30.2 | 12.4 | 7.1 | 7.1 | 16.9 | 19.5 | 12.4 | 6.2 | 5.3 |
| 80° | 219.4 | 41.7 | 12.4 | 5.3 | 2.7 | 2.7 | 3.6 | 3.6 | 1.8 | 0.0 | 0.0 |
| 82.5° | 72.0 | 16.9 | 5.3 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.5 | 6.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.7 | 0.9 | 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)