

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: P383036

Luminaire Tested: **GLEON-SA3D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17811.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

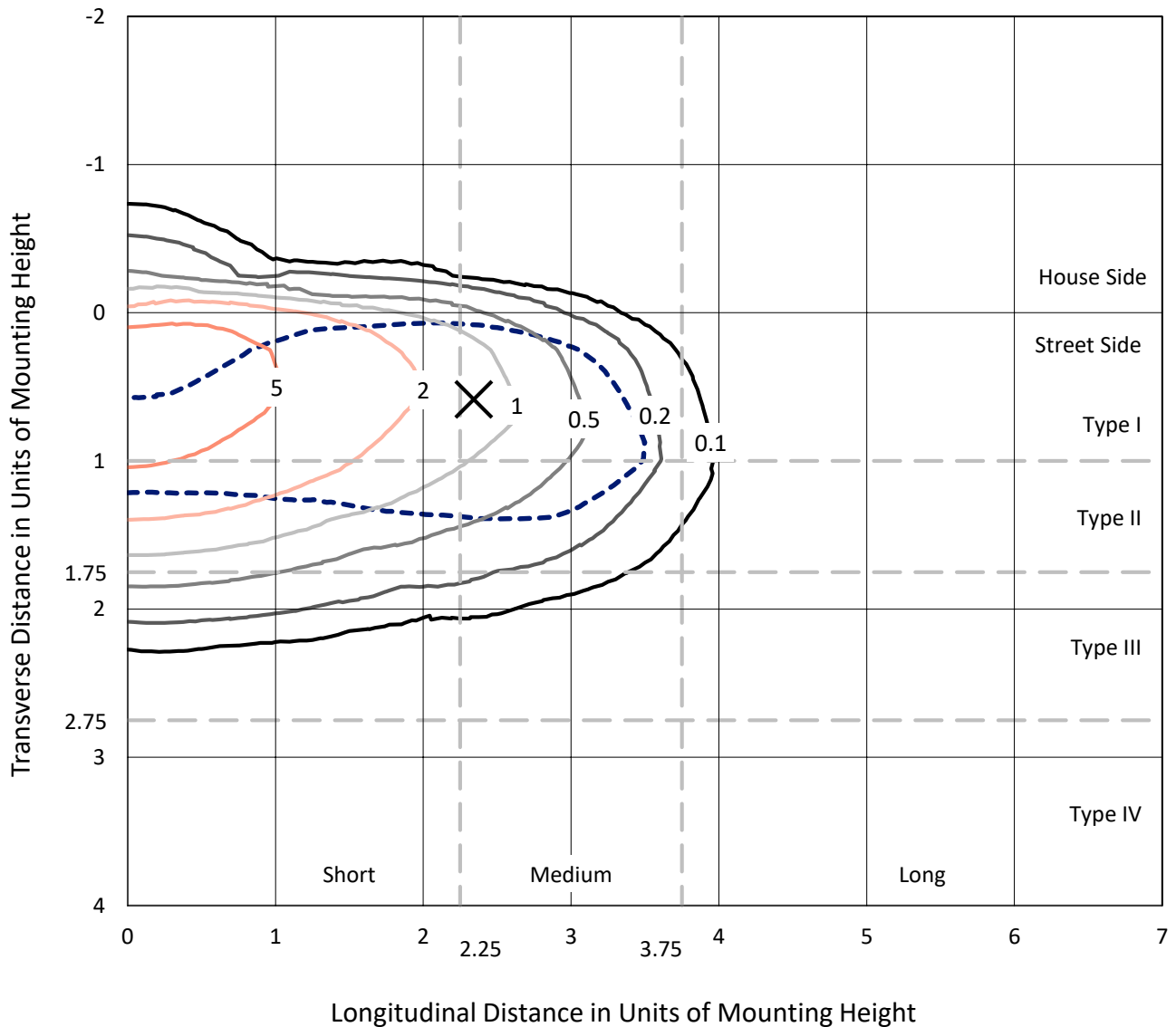
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

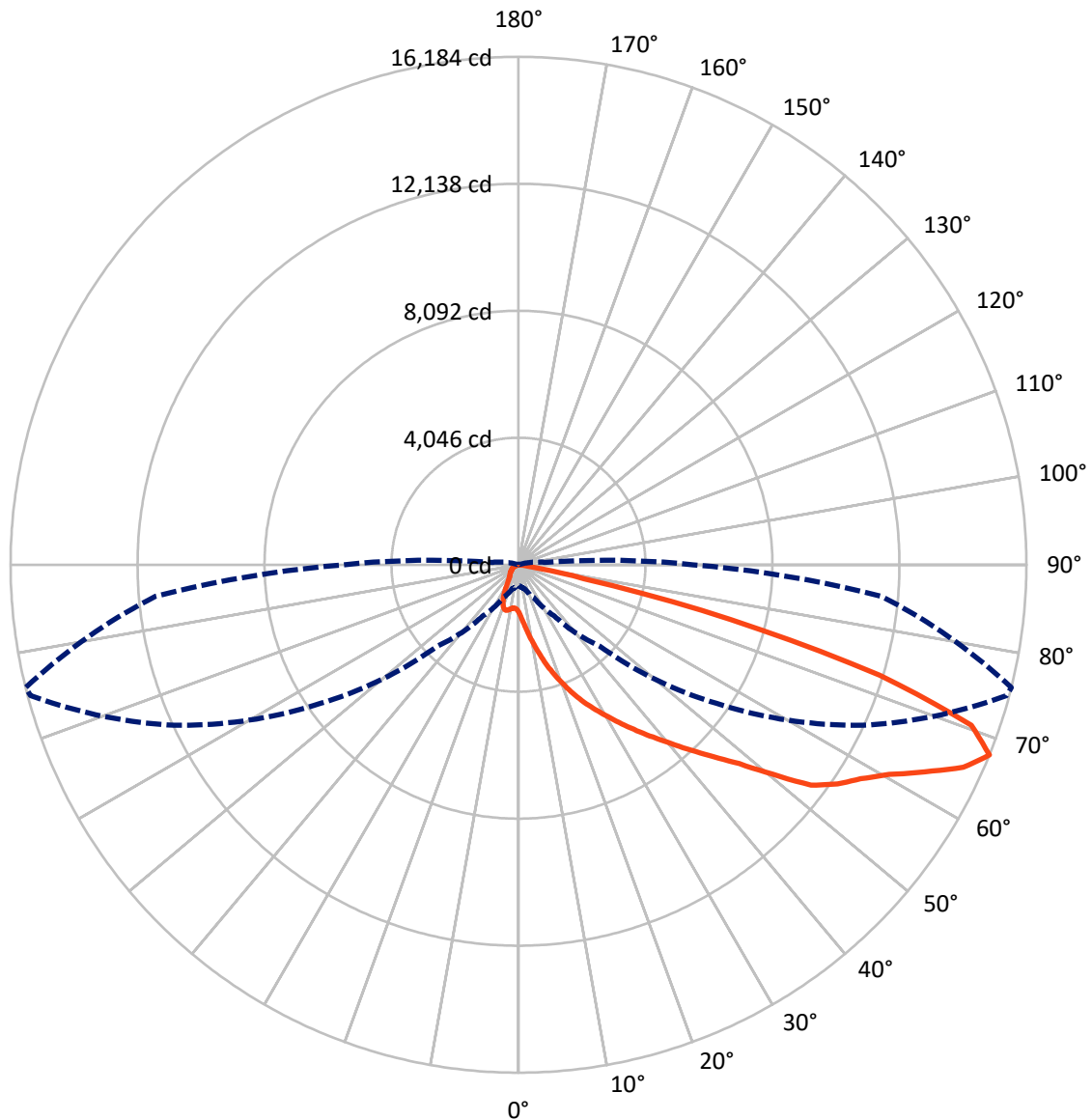
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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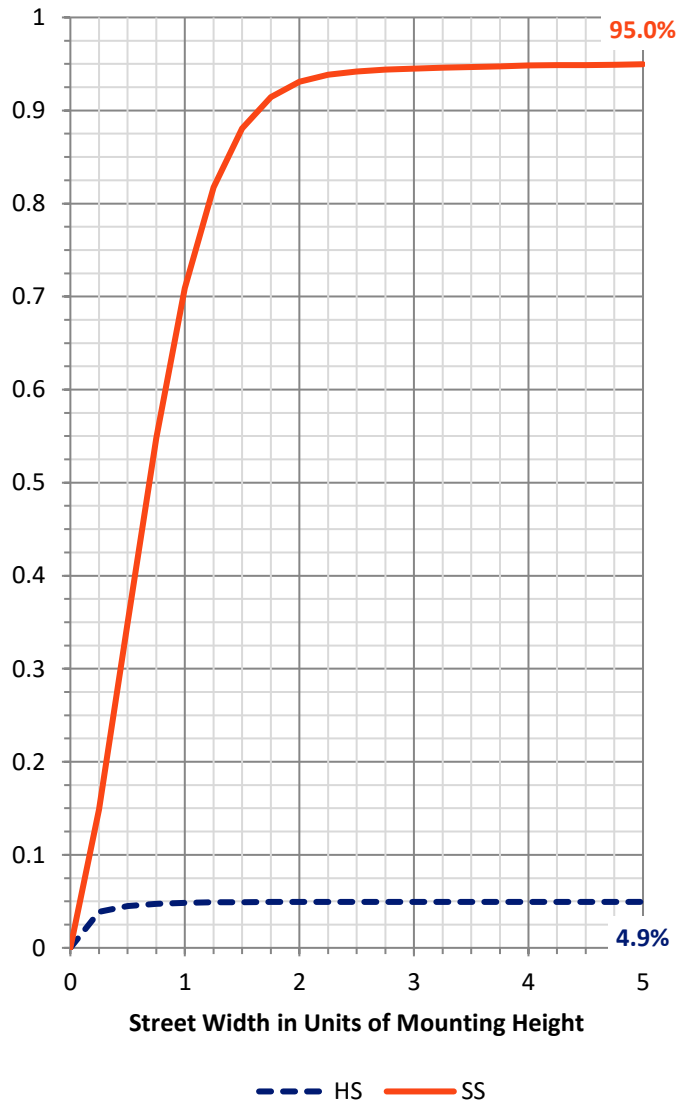
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 884.5 | 0.0 | 884.5 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 16926.7 | 0.0 | 16926.7 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 17811.2 | 0.0 | 17811.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.9 | 1.1 |
| 10°-20° | 744.8 | 4.2 |
| 20°-30° | 1515.4 | 8.5 |
| 30°-40° | 2630.2 | 14.8 |
| 40°-50° | 3716.1 | 20.9 |
| 50°-60° | 4214.3 | 23.7 |
| 60°-70° | 3495.3 | 19.6 |
| 70°-80° | 1266.1 | 7.1 |
| 80°-90° | 41.1 | 0.2 |
| 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° | 17811.2 | 100.0 |
| 0°-180° | 17811.2 | 100.0 |

Coefficient of Utilization

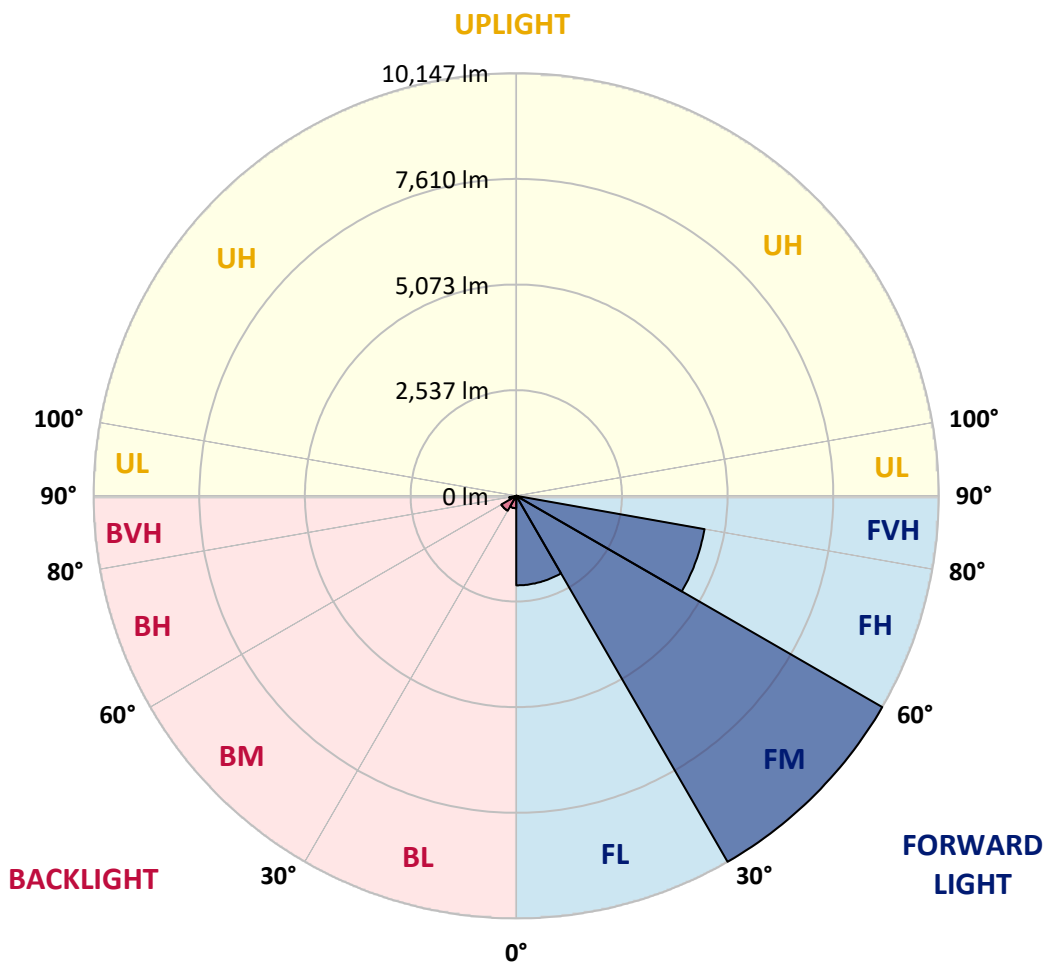


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2149.8 | 12.1 | | | |
| FM (30°-60°) | 10146.7 | 57.0 | | | |
| FH (60°-80°) | 4590.5 | 25.8 | | | G2/5000 |
| FVH (80°-90°) | 39.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 298.3 | 1.7 | B1/500 | | |
| BM (30°-60°) | 414.0 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 170.9 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 |
| 2.5° | 2255.5 | 2204.7 | 2216.4 | 2183.6 | 2124.3 | 2002.5 | 1898.8 | 1800.4 | 1685.7 | 1681.8 | 1587.4 |
| 5° | 3041.3 | 2998.4 | 2993.0 | 2926.6 | 2818.9 | 2612.1 | 2410.8 | 2181.3 | 1925.3 | 1906.6 | 1706.0 |
| 7.5° | 3754.6 | 3720.3 | 3707.8 | 3628.9 | 3428.4 | 3227.1 | 2964.8 | 2627.7 | 2227.3 | 2193.0 | 1866.0 |
| 10° | 4302.4 | 4286.1 | 4289.2 | 4233.0 | 4061.4 | 3874.0 | 3529.9 | 3099.8 | 2570.0 | 2516.9 | 2058.0 |
| 12.5° | 4717.6 | 4721.5 | 4749.7 | 4715.3 | 4619.4 | 4480.5 | 4112.9 | 3603.2 | 2949.2 | 2876.6 | 2277.3 |
| 15° | 5022.8 | 5042.4 | 5093.8 | 5136.7 | 5129.8 | 5009.6 | 4672.5 | 4114.4 | 3351.9 | 3271.5 | 2521.5 |
| 17.5° | 5220.3 | 5242.1 | 5317.1 | 5412.3 | 5499.7 | 5471.5 | 5212.5 | 4607.6 | 3759.4 | 3666.5 | 2783.0 |
| 20° | 5393.6 | 5419.3 | 5499.7 | 5625.3 | 5788.5 | 5823.6 | 5653.4 | 5086.1 | 4165.9 | 4052.8 | 3053.1 |
| 22.5° | 5768.9 | 5768.1 | 5817.3 | 5890.6 | 6045.9 | 6136.5 | 6028.8 | 5530.1 | 4567.8 | 4450.0 | 3328.5 |
| 25° | 6447.9 | 6422.1 | 6404.9 | 6347.2 | 6381.6 | 6437.7 | 6377.7 | 5945.3 | 4972.1 | 4852.7 | 3607.9 |
| 27.5° | 7254.8 | 7270.4 | 7131.6 | 6976.3 | 6856.0 | 6798.2 | 6700.0 | 6330.1 | 5360.8 | 5229.6 | 3881.0 |
| 30° | 8106.3 | 8111.0 | 7947.0 | 7748.9 | 7484.2 | 7265.0 | 7094.9 | 6697.6 | 5760.3 | 5617.5 | 4146.4 |
| 32.5° | 8874.2 | 8843.8 | 8681.5 | 8411.4 | 8077.4 | 7830.8 | 7477.3 | 7108.1 | 6183.3 | 6045.2 | 4441.4 |
| 35° | 9483.0 | 9447.0 | 9249.6 | 9003.8 | 8657.2 | 8409.1 | 7983.7 | 7517.9 | 6628.1 | 6493.2 | 4737.2 |
| 37.5° | 9927.8 | 9885.7 | 9682.8 | 9429.9 | 9131.0 | 8986.6 | 8571.4 | 7963.4 | 7113.6 | 6968.4 | 5048.6 |
| 40° | 10082.3 | 10045.6 | 9918.5 | 9733.5 | 9493.1 | 9460.3 | 9194.9 | 8476.2 | 7642.0 | 7487.4 | 5401.3 |
| 42.5° | 9990.2 | 9954.3 | 9909.1 | 9846.6 | 9746.8 | 9778.0 | 9783.4 | 9060.8 | 8228.8 | 8076.6 | 5790.8 |
| 45° | 9625.0 | 9593.0 | 9639.8 | 9731.1 | 9855.2 | 10009.8 | 10320.3 | 9689.0 | 8884.4 | 8722.1 | 6241.1 |
| 47.5° | 9087.2 | 9063.9 | 9193.4 | 9421.3 | 9784.2 | 10210.3 | 10811.3 | 10349.2 | 9620.3 | 9469.6 | 6803.0 |
| 50° | 8322.4 | 8318.5 | 8577.7 | 8993.6 | 9551.6 | 10307.1 | 11318.5 | 11100.0 | 10642.7 | 10484.3 | 7584.2 |
| 52.5° | 7131.6 | 7139.4 | 7648.9 | 8314.6 | 9143.5 | 10241.5 | 11644.7 | 12064.6 | 11832.1 | 11667.4 | 8260.8 |
| 55° | 5997.6 | 6044.4 | 6405.7 | 7365.7 | 8517.6 | 9998.0 | 11757.2 | 12514.9 | 12488.4 | 12332.3 | 8636.9 |
| 57.5° | 4887.0 | 4972.1 | 5320.2 | 6216.9 | 7603.7 | 9436.9 | 11695.5 | 12710.0 | 12976.9 | 12857.5 | 9133.4 |
| 60° | 3683.6 | 3722.7 | 4123.8 | 4962.0 | 6430.8 | 8413.0 | 11248.3 | 12816.1 | 13644.9 | 13562.2 | 9853.6 |
| 62.5° | 2343.6 | 2441.2 | 2797.1 | 3605.6 | 5007.3 | 6991.1 | 10494.3 | 12814.6 | 14480.8 | 14526.1 | 10783.1 |
| 65° | 1234.7 | 1348.6 | 1537.4 | 2234.3 | 3440.9 | 5402.9 | 9360.5 | 12694.4 | 15506.3 | 15569.5 | 11509.7 |
| 67.5° | 665.7 | 698.5 | 798.3 | 1159.7 | 1995.6 | 3660.2 | 7694.2 | 12101.3 | 16100.2 | 16183.7 | 11611.2 |
| 70° | 487.0 | 504.9 | 542.4 | 641.5 | 1004.4 | 2125.9 | 5614.3 | 10756.6 | 15334.6 | 15303.4 | 10316.4 |
| 72.5° | 373.8 | 402.0 | 430.0 | 469.8 | 577.6 | 1134.7 | 3495.5 | 8423.1 | 12235.5 | 12029.4 | 7711.4 |
| 75° | 295.0 | 299.7 | 339.5 | 375.4 | 433.2 | 646.2 | 1552.2 | 4905.7 | 7467.9 | 6980.1 | 3998.9 |
| 77.5° | 235.7 | 238.8 | 262.2 | 293.4 | 348.0 | 424.5 | 480.8 | 1930.0 | 2384.2 | 2127.5 | 867.8 |
| 80° | 139.7 | 147.5 | 195.1 | 226.4 | 288.8 | 267.7 | 175.6 | 419.1 | 372.2 | 337.1 | 146.0 |
| 82.5° | 78.1 | 84.3 | 110.0 | 178.8 | 201.3 | 128.0 | 87.4 | 113.2 | 87.4 | 85.1 | 41.4 |
| 85° | 0.0 | 3.9 | 71.0 | 110.9 | 82.0 | 28.1 | 36.7 | 37.4 | 25.7 | 24.2 | 16.4 |
| 87.5° | 0.0 | 0.0 | 21.9 | 21.1 | 3.2 | 4.7 | 8.6 | 12.5 | 10.2 | 10.2 | 8.6 |
| 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° | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 | 1510.9 |
| 2.5° | 1540.6 | 1498.4 | 1418.8 | 1340.8 | 1275.2 | 1221.4 | 1173.0 | 1153.4 | 1137.9 | 1135.6 | 1123.1 |
| 5° | 1609.2 | 1524.2 | 1372.0 | 1247.2 | 1163.6 | 1104.3 | 1053.6 | 1022.4 | 998.2 | 988.8 | 980.2 |
| 7.5° | 1713.0 | 1584.3 | 1365.7 | 1222.2 | 1122.2 | 1022.4 | 928.8 | 827.2 | 764.1 | 739.8 | 725.8 |
| 10° | 1839.4 | 1663.8 | 1389.1 | 1215.1 | 1040.4 | 829.6 | 674.3 | 545.5 | 493.3 | 476.0 | 471.4 |
| 12.5° | 1987.0 | 1763.0 | 1429.7 | 1171.4 | 865.5 | 589.2 | 465.1 | 421.4 | 409.7 | 404.3 | 404.3 |
| 15° | 2156.3 | 1871.5 | 1458.6 | 1045.0 | 640.0 | 445.7 | 402.7 | 382.4 | 369.9 | 362.9 | 363.7 |
| 17.5° | 2329.6 | 1977.6 | 1444.6 | 861.6 | 472.2 | 396.5 | 364.4 | 342.6 | 325.5 | 318.4 | 316.8 |
| 20° | 2504.4 | 2076.0 | 1366.5 | 641.5 | 399.5 | 359.8 | 323.9 | 299.7 | 282.5 | 275.5 | 274.0 |
| 22.5° | 2685.5 | 2159.4 | 1229.2 | 470.6 | 359.0 | 319.1 | 284.0 | 259.9 | 243.5 | 237.3 | 234.1 |
| 25° | 2861.8 | 2227.3 | 1037.2 | 380.8 | 320.7 | 281.0 | 247.4 | 224.8 | 210.0 | 203.7 | 202.9 |
| 27.5° | 3026.5 | 2270.3 | 814.7 | 336.4 | 287.2 | 246.6 | 216.2 | 195.9 | 183.4 | 178.8 | 177.9 |
| 30° | 3174.8 | 2274.2 | 602.5 | 303.6 | 257.6 | 217.0 | 188.8 | 170.9 | 159.9 | 155.3 | 153.7 |
| 32.5° | 3324.6 | 2241.4 | 438.6 | 274.0 | 230.2 | 191.2 | 163.9 | 149.9 | 142.1 | 138.1 | 138.1 |
| 35° | 3465.9 | 2165.7 | 341.8 | 248.2 | 203.7 | 166.2 | 144.4 | 134.2 | 129.6 | 125.7 | 125.7 |
| 37.5° | 3604.0 | 2057.2 | 290.4 | 225.5 | 178.8 | 145.1 | 127.2 | 121.0 | 117.1 | 113.2 | 113.2 |
| 40° | 3744.4 | 1920.7 | 263.8 | 204.5 | 158.5 | 128.7 | 113.2 | 107.7 | 103.8 | 100.7 | 99.9 |
| 42.5° | 3917.0 | 1763.0 | 246.6 | 185.0 | 140.5 | 113.9 | 99.9 | 93.6 | 90.5 | 87.4 | 85.9 |
| 45° | 4116.8 | 1627.2 | 232.6 | 165.4 | 125.7 | 101.4 | 86.6 | 80.4 | 75.7 | 71.8 | 71.0 |
| 47.5° | 4404.7 | 1528.9 | 213.8 | 144.4 | 111.6 | 88.2 | 74.9 | 67.9 | 60.8 | 57.0 | 56.2 |
| 50° | 4772.3 | 1447.7 | 189.7 | 125.7 | 97.5 | 74.9 | 62.4 | 53.8 | 47.6 | 43.7 | 43.7 |
| 52.5° | 4954.9 | 1341.5 | 167.8 | 109.3 | 82.0 | 63.3 | 50.8 | 40.6 | 37.4 | 33.5 | 33.5 |
| 55° | 5028.3 | 1260.4 | 146.0 | 92.9 | 67.9 | 52.3 | 39.8 | 31.2 | 28.9 | 26.5 | 25.7 |
| 57.5° | 5234.3 | 1237.0 | 127.2 | 78.8 | 56.2 | 41.4 | 30.5 | 23.4 | 21.9 | 18.7 | 18.7 |
| 60° | 5566.0 | 1248.6 | 110.0 | 67.1 | 45.3 | 32.0 | 22.6 | 18.0 | 16.4 | 13.2 | 13.2 |
| 62.5° | 5924.2 | 1233.8 | 92.9 | 57.8 | 35.1 | 23.4 | 15.6 | 13.2 | 13.2 | 7.8 | 7.0 |
| 65° | 5992.9 | 1098.9 | 79.6 | 47.6 | 27.3 | 17.1 | 10.2 | 8.6 | 11.7 | 1.6 | 0.0 |
| 67.5° | 5562.1 | 852.2 | 68.7 | 36.7 | 20.3 | 13.2 | 7.8 | 3.9 | 10.2 | 0.0 | 0.0 |
| 70° | 4447.7 | 541.6 | 55.4 | 26.5 | 15.6 | 10.9 | 6.2 | 1.6 | 7.8 | 0.0 | 0.0 |
| 72.5° | 3145.1 | 314.5 | 43.7 | 18.7 | 13.2 | 8.6 | 4.7 | 0.0 | 4.7 | 0.0 | 0.0 |
| 75° | 1590.5 | 167.8 | 27.3 | 14.1 | 10.2 | 6.2 | 3.2 | 0.0 | 0.7 | 0.0 | 0.0 |
| 77.5° | 344.2 | 78.1 | 17.1 | 10.2 | 7.0 | 3.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 74.9 | 34.4 | 10.9 | 6.2 | 3.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 27.3 | 18.0 | 5.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.8 | 9.4 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.8 | 3.2 | 0.7 | 0.7 | 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)