

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: P324587

Luminaire Tested: **GLEON-SA3A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7753 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

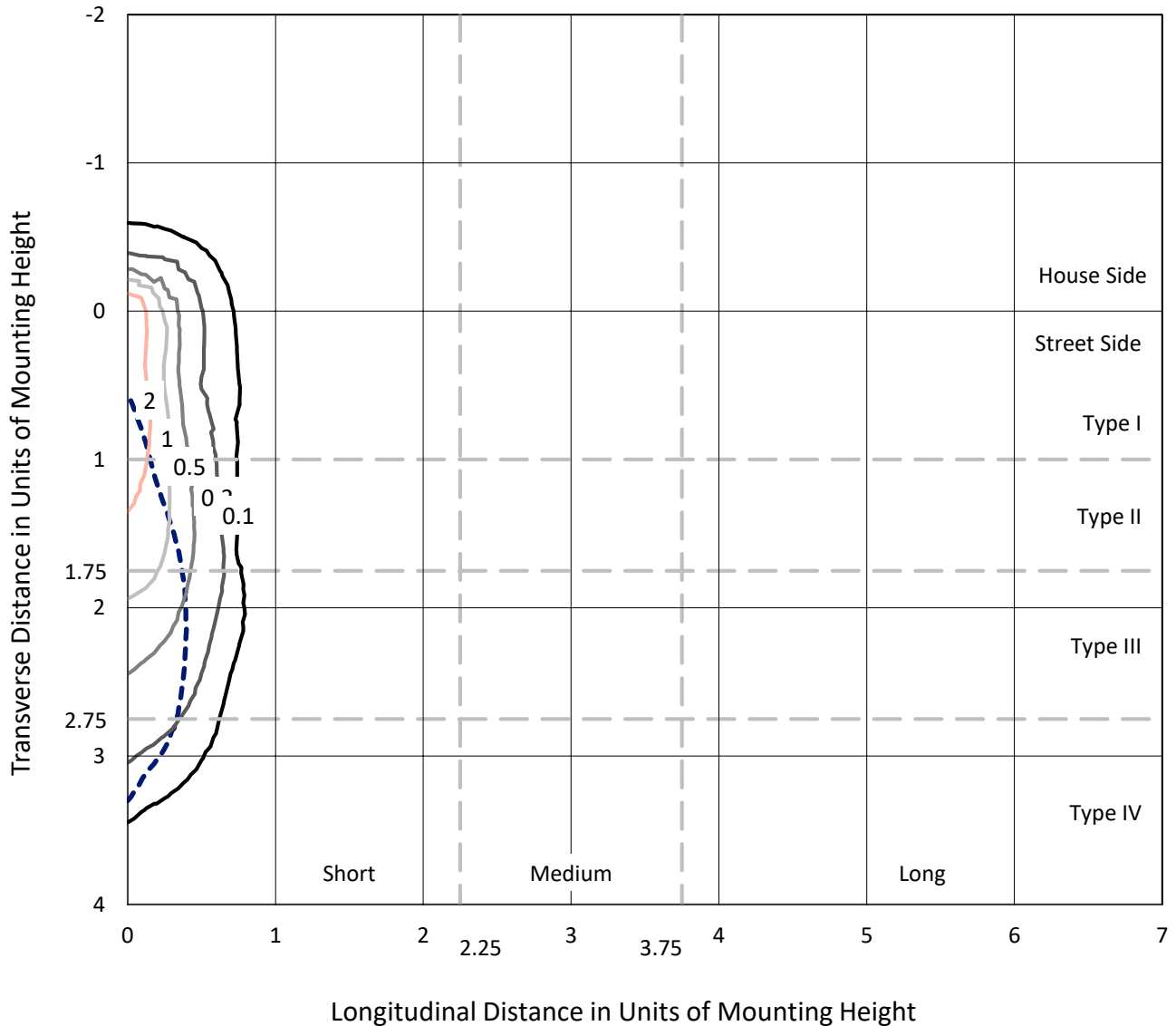
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

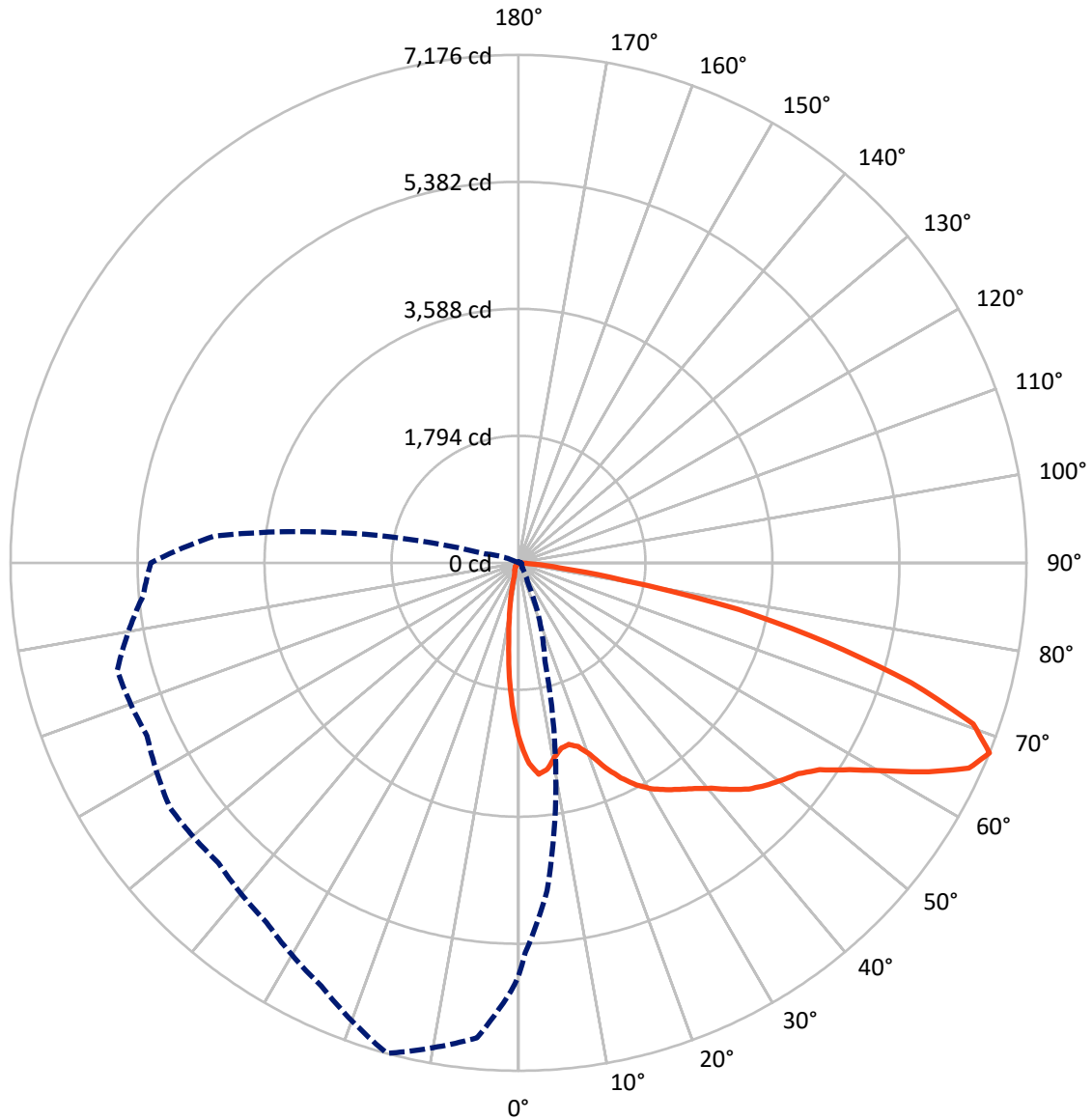
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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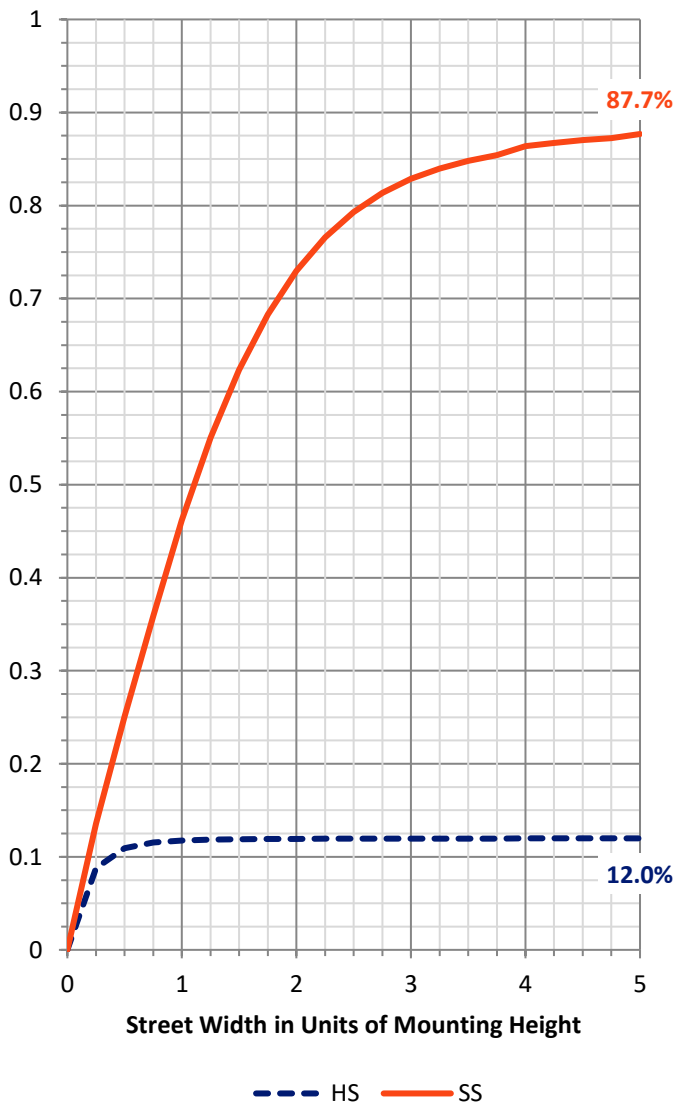
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 938.4 | 0.0 | 938.4 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 6814.6 | 0.0 | 6814.6 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 7753.0 | 0.0 | 7753.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 193.8 | 2.5 |
| 10°-20° | 385.8 | 5.0 |
| 20°-30° | 547.9 | 7.1 |
| 30°-40° | 809.2 | 10.4 |
| 40°-50° | 1167.1 | 15.1 |
| 50°-60° | 1638.3 | 21.1 |
| 60°-70° | 1909.8 | 24.6 |
| 70°-80° | 976.3 | 12.6 |
| 80°-90° | 124.7 | 1.6 |
| 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° | 7753.0 | 100.0 |
| 0°-180° | 7753.0 | 100.0 |

Coefficient of Utilization



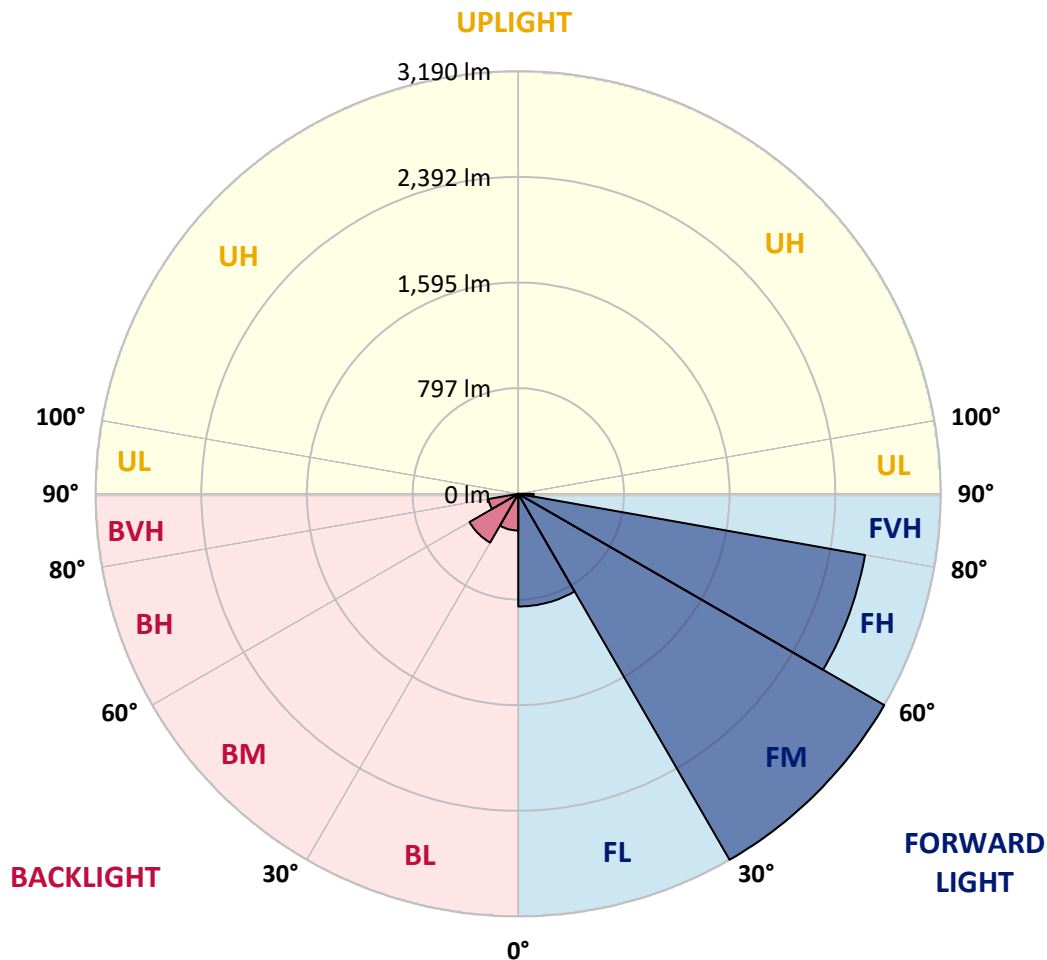
REPORT NUMBER: P324587
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 850.4 | 11.0 | | | |
| FM (30°-60°) | 3189.7 | 41.1 | | | |
| FH (60°-80°) | 2657.5 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 117.1 | 1.5 | | | G2/225 |
| BL (0°-30°) | 277.2 | 3.6 | B1/500 | | |
| BM (30°-60°) | 424.9 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 228.7 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.6 | 0.1 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 |
| 2.5° | 2765.4 | 2744.1 | 2720.6 | 2643.8 | 2572.5 | 2491.0 | 2424.5 | 2378.2 | 2320.2 | 2244.9 | 2225.8 |
| 5° | 2745.5 | 2722.8 | 2648.9 | 2478.1 | 2328.7 | 2183.2 | 2042.9 | 1960.6 | 1858.5 | 1754.9 | 1729.2 |
| 7.5° | 2546.1 | 2522.2 | 2415.7 | 2181.7 | 1980.5 | 1770.4 | 1588.2 | 1475.4 | 1360.1 | 1265.3 | 1215.0 |
| 10° | 2338.6 | 2312.5 | 2192.8 | 1908.8 | 1660.9 | 1471.0 | 1337.3 | 1229.7 | 1120.6 | 1019.2 | 938.4 |
| 12.5° | 2195.7 | 2161.5 | 2031.5 | 1709.8 | 1493.8 | 1364.9 | 1240.0 | 1111.1 | 963.4 | 854.7 | 765.8 |
| 15° | 2135.8 | 2096.9 | 1959.5 | 1633.0 | 1434.7 | 1283.3 | 1120.6 | 962.3 | 789.3 | 664.8 | 583.3 |
| 17.5° | 2182.1 | 2131.4 | 1984.1 | 1627.9 | 1360.5 | 1154.4 | 948.7 | 762.9 | 575.2 | 449.2 | 391.2 |
| 20° | 2339.3 | 2272.8 | 2085.9 | 1626.4 | 1270.5 | 1001.2 | 740.5 | 530.4 | 379.0 | 304.9 | 274.4 |
| 22.5° | 2586.9 | 2499.1 | 2232.1 | 1638.1 | 1177.6 | 840.4 | 534.8 | 360.3 | 284.7 | 246.1 | 228.1 |
| 25° | 2885.8 | 2784.1 | 2442.5 | 1679.6 | 1096.0 | 683.9 | 388.6 | 284.7 | 240.2 | 211.9 | 196.9 |
| 27.5° | 3170.1 | 3087.5 | 2708.4 | 1739.5 | 1032.8 | 557.6 | 315.5 | 241.3 | 205.3 | 186.6 | 174.5 |
| 30° | 3454.0 | 3350.1 | 2981.3 | 1810.8 | 956.8 | 472.0 | 277.3 | 220.0 | 184.0 | 164.2 | 156.5 |
| 32.5° | 3660.5 | 3574.2 | 3195.1 | 1862.2 | 875.6 | 416.1 | 247.9 | 201.3 | 171.9 | 151.7 | 140.3 |
| 35° | 3903.3 | 3805.6 | 3378.4 | 1873.6 | 823.5 | 380.9 | 222.9 | 181.1 | 149.1 | 131.1 | 119.0 |
| 37.5° | 4165.5 | 4043.9 | 3589.9 | 1848.6 | 782.7 | 363.6 | 204.2 | 171.9 | 139.2 | 120.8 | 108.0 |
| 40° | 4455.7 | 4318.3 | 3793.1 | 1812.6 | 742.7 | 357.7 | 189.9 | 164.9 | 131.5 | 112.8 | 99.5 |
| 42.5° | 4761.3 | 4599.3 | 3969.0 | 1774.8 | 717.3 | 337.5 | 188.4 | 157.9 | 125.6 | 105.4 | 92.2 |
| 45° | 5018.0 | 4853.8 | 4149.7 | 1762.3 | 699.3 | 315.5 | 194.7 | 153.2 | 121.6 | 99.5 | 86.7 |
| 47.5° | 5222.6 | 5067.2 | 4334.8 | 1790.2 | 689.0 | 295.3 | 177.4 | 159.4 | 119.4 | 94.4 | 81.9 |
| 50° | 5466.8 | 5290.9 | 4595.6 | 1873.6 | 674.0 | 275.1 | 160.5 | 182.5 | 119.4 | 91.1 | 77.9 |
| 52.5° | 5773.2 | 5599.1 | 4886.5 | 2002.9 | 643.9 | 247.2 | 144.3 | 182.9 | 120.5 | 86.7 | 72.7 |
| 55° | 6158.4 | 6032.1 | 5301.9 | 2144.6 | 595.8 | 206.1 | 124.9 | 157.2 | 116.1 | 78.6 | 67.9 |
| 57.5° | 6527.9 | 6424.7 | 5680.6 | 2241.6 | 531.5 | 160.9 | 108.7 | 126.7 | 106.1 | 69.1 | 60.6 |
| 59° | 6629.0 | 6516.2 | 5819.4 | 2246.0 | 483.4 | 140.3 | 100.6 | 104.7 | 103.9 | 64.6 | 56.2 |
| 60° | 6629.0 | 6509.2 | 5859.5 | 2222.5 | 448.5 | 128.9 | 95.5 | 93.3 | 108.4 | 61.7 | 53.6 |
| 62.5° | 6508.8 | 6340.6 | 5729.4 | 2063.5 | 365.8 | 109.8 | 83.4 | 77.1 | 97.3 | 55.5 | 47.4 |
| 65° | 6259.1 | 6014.1 | 5286.5 | 1775.9 | 326.2 | 100.6 | 72.0 | 63.2 | 67.6 | 48.9 | 41.5 |
| 67.5° | 5842.6 | 5510.5 | 4647.8 | 1434.7 | 310.4 | 98.1 | 62.1 | 53.6 | 51.1 | 41.9 | 36.4 |
| 70° | 5109.1 | 4740.7 | 3872.4 | 1128.0 | 296.8 | 97.0 | 52.2 | 45.2 | 41.1 | 35.3 | 30.9 |
| 72.5° | 3718.5 | 3334.3 | 2749.2 | 881.9 | 288.7 | 99.2 | 41.9 | 37.8 | 33.8 | 27.5 | 23.9 |
| 75° | 2127.0 | 1875.4 | 1545.2 | 582.5 | 246.1 | 94.8 | 32.3 | 31.6 | 24.2 | 19.8 | 16.5 |
| 77.5° | 1098.9 | 1065.5 | 926.0 | 223.7 | 117.9 | 41.5 | 21.3 | 18.4 | 14.3 | 12.1 | 9.9 |
| 80° | 474.2 | 469.0 | 405.9 | 64.6 | 31.2 | 23.1 | 12.1 | 7.7 | 6.6 | 5.1 | 4.0 |
| 82.5° | 163.8 | 163.8 | 144.3 | 21.7 | 14.0 | 11.4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 33.1 | 37.1 | 26.1 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 |
| 2.5° | 2202.7 | 2158.2 | 2155.3 | 2127.4 | 2092.5 | 2076.7 | 2067.5 | 2083.7 | 2103.5 | 2105.7 | 2135.5 |
| 5° | 1709.8 | 1663.1 | 1682.6 | 1633.0 | 1642.9 | 1633.0 | 1616.8 | 1619.8 | 1628.6 | 1601.0 | 1635.2 |
| 7.5° | 1200.7 | 1165.4 | 1187.8 | 1174.6 | 1192.2 | 1199.2 | 1189.3 | 1174.6 | 1131.3 | 1126.1 | 1155.9 |
| 10° | 905.0 | 865.0 | 841.1 | 816.1 | 821.6 | 833.0 | 829.4 | 818.7 | 791.2 | 792.6 | 821.3 |
| 12.5° | 727.2 | 682.4 | 635.1 | 573.7 | 558.7 | 567.1 | 558.7 | 552.4 | 526.0 | 528.2 | 553.5 |
| 15° | 551.7 | 514.9 | 465.4 | 416.1 | 389.3 | 391.9 | 368.4 | 351.9 | 335.3 | 315.5 | 330.9 |
| 17.5° | 372.4 | 350.0 | 335.3 | 320.6 | 288.7 | 281.3 | 251.6 | 219.6 | 207.2 | 198.0 | 204.6 |
| 20° | 263.7 | 251.6 | 245.7 | 245.0 | 226.6 | 217.4 | 188.4 | 168.6 | 162.3 | 160.5 | 164.5 |
| 22.5° | 220.4 | 211.6 | 203.1 | 198.3 | 189.2 | 178.5 | 156.5 | 146.6 | 142.1 | 139.9 | 142.9 |
| 25° | 191.7 | 185.1 | 176.3 | 168.2 | 164.5 | 153.2 | 137.4 | 130.0 | 127.1 | 124.9 | 126.3 |
| 27.5° | 170.4 | 164.5 | 154.3 | 149.1 | 146.2 | 136.3 | 122.7 | 116.8 | 114.2 | 113.5 | 113.1 |
| 30° | 153.5 | 148.0 | 138.5 | 132.6 | 127.5 | 118.6 | 110.6 | 104.7 | 102.1 | 101.4 | 100.6 |
| 32.5° | 136.6 | 132.2 | 126.0 | 120.1 | 114.6 | 106.5 | 99.5 | 94.8 | 90.7 | 90.0 | 89.6 |
| 35° | 115.3 | 110.9 | 107.6 | 107.3 | 102.1 | 94.4 | 89.3 | 83.0 | 79.7 | 78.6 | 79.0 |
| 37.5° | 102.5 | 96.6 | 89.3 | 91.8 | 90.4 | 84.8 | 77.9 | 71.6 | 68.3 | 67.6 | 67.6 |
| 40° | 94.4 | 88.2 | 79.7 | 75.3 | 79.7 | 78.6 | 67.6 | 61.3 | 58.0 | 57.7 | 56.9 |
| 42.5° | 86.7 | 80.4 | 70.9 | 63.5 | 65.7 | 69.1 | 58.4 | 52.5 | 49.2 | 48.5 | 47.4 |
| 45° | 81.2 | 74.6 | 63.9 | 55.5 | 51.1 | 58.0 | 50.0 | 42.6 | 40.8 | 39.3 | 38.6 |
| 47.5° | 76.0 | 69.8 | 57.7 | 48.1 | 40.8 | 41.9 | 40.0 | 34.9 | 32.7 | 31.2 | 30.9 |
| 50° | 71.6 | 65.0 | 52.2 | 41.1 | 33.8 | 30.9 | 32.3 | 27.5 | 25.7 | 24.2 | 23.5 |
| 52.5° | 66.5 | 60.2 | 46.3 | 35.6 | 28.3 | 24.2 | 24.6 | 21.7 | 19.8 | 18.7 | 18.4 |
| 55° | 62.4 | 56.2 | 41.5 | 31.2 | 25.0 | 19.8 | 17.6 | 16.9 | 15.8 | 15.1 | 14.7 |
| 57.5° | 56.9 | 51.1 | 36.7 | 26.4 | 21.3 | 16.2 | 13.6 | 13.6 | 13.2 | 12.5 | 12.1 |
| 59° | 53.6 | 48.5 | 33.8 | 23.9 | 19.5 | 14.0 | 12.1 | 12.5 | 12.1 | 11.4 | 11.0 |
| 60° | 51.1 | 46.3 | 31.6 | 22.0 | 18.4 | 12.9 | 11.0 | 11.8 | 11.4 | 10.7 | 10.3 |
| 62.5° | 45.2 | 41.9 | 27.2 | 18.4 | 16.2 | 10.3 | 9.2 | 9.9 | 9.9 | 9.5 | 9.2 |
| 65° | 39.7 | 36.0 | 23.1 | 15.4 | 15.1 | 8.8 | 7.3 | 8.8 | 9.2 | 8.4 | 7.7 |
| 67.5° | 34.5 | 30.9 | 20.2 | 12.5 | 14.0 | 7.0 | 5.5 | 7.3 | 9.9 | 7.7 | 7.0 |
| 70° | 29.4 | 25.7 | 15.8 | 9.9 | 14.7 | 4.8 | 4.4 | 6.6 | 11.8 | 8.4 | 6.6 |
| 72.5° | 22.8 | 19.8 | 11.0 | 7.3 | 15.8 | 3.3 | 3.3 | 5.5 | 13.2 | 9.2 | 6.2 |
| 75° | 15.8 | 12.9 | 6.6 | 4.4 | 12.9 | 2.2 | 2.2 | 5.1 | 12.5 | 8.4 | 5.9 |
| 77.5° | 9.2 | 7.0 | 2.2 | 0.4 | 6.6 | 0.0 | 0.4 | 3.7 | 8.8 | 5.1 | 2.6 |
| 80° | 3.3 | 1.5 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 |
| 2.5° | 2143.2 | 2192.8 | 2237.2 | 2304.4 | 2384.1 | 2475.9 | 2554.9 | 2639.8 | 2719.5 | 2752.5 | 2775.3 |
| 5° | 1642.2 | 1703.5 | 1775.1 | 1873.9 | 2005.4 | 2167.4 | 2319.1 | 2490.6 | 2675.0 | 2767.2 | 2853.9 |
| 7.5° | 1161.0 | 1223.5 | 1312.3 | 1417.4 | 1576.4 | 1769.3 | 1967.6 | 2204.5 | 2454.3 | 2600.1 | 2743.7 |
| 10° | 834.9 | 911.6 | 994.6 | 1138.2 | 1299.9 | 1482.8 | 1687.0 | 1951.4 | 2229.9 | 2391.5 | 2564.5 |
| 12.5° | 568.2 | 655.6 | 781.2 | 942.1 | 1132.0 | 1311.2 | 1488.6 | 1741.0 | 2064.2 | 2224.3 | 2409.8 |
| 15° | 340.9 | 389.3 | 522.3 | 708.5 | 941.4 | 1164.7 | 1359.0 | 1612.1 | 1956.6 | 2152.7 | 2345.6 |
| 17.5° | 210.1 | 232.5 | 304.9 | 457.7 | 702.3 | 984.7 | 1251.0 | 1568.4 | 1972.0 | 2210.8 | 2417.2 |
| 20° | 167.5 | 176.3 | 199.4 | 270.3 | 465.4 | 786.4 | 1129.4 | 1559.5 | 2098.0 | 2391.8 | 2613.3 |
| 22.5° | 145.4 | 153.9 | 169.3 | 196.5 | 292.7 | 588.8 | 1014.1 | 1567.6 | 2278.7 | 2663.3 | 2921.8 |
| 25° | 128.2 | 135.5 | 150.2 | 172.6 | 214.5 | 414.7 | 890.7 | 1603.6 | 2514.1 | 3000.1 | 3274.8 |
| 27.5° | 114.6 | 120.8 | 134.4 | 155.0 | 184.0 | 289.4 | 750.8 | 1647.3 | 2793.3 | 3344.6 | 3615.7 |
| 30° | 102.1 | 107.6 | 119.7 | 138.8 | 159.8 | 222.6 | 597.2 | 1677.1 | 3072.8 | 3615.7 | 3859.2 |
| 32.5° | 91.5 | 95.5 | 106.5 | 122.7 | 138.8 | 177.4 | 454.0 | 1672.3 | 3280.3 | 3841.2 | 4034.4 |
| 35° | 80.4 | 84.5 | 94.0 | 108.0 | 120.8 | 146.6 | 357.0 | 1583.0 | 3461.0 | 4075.1 | 4234.9 |
| 37.5° | 68.3 | 73.5 | 82.6 | 95.1 | 103.9 | 128.9 | 288.7 | 1475.4 | 3644.3 | 4342.5 | 4458.6 |
| 40° | 58.0 | 63.2 | 71.3 | 84.8 | 90.4 | 122.3 | 221.8 | 1344.3 | 3850.4 | 4641.5 | 4704.0 |
| 42.5° | 48.1 | 52.9 | 61.3 | 73.1 | 85.2 | 105.4 | 164.2 | 1194.4 | 4048.3 | 4897.2 | 4927.6 |
| 45° | 38.9 | 43.7 | 52.5 | 64.3 | 91.1 | 87.4 | 127.1 | 1033.9 | 4208.1 | 5109.8 | 5119.7 |
| 47.5° | 30.9 | 35.3 | 44.4 | 60.6 | 84.8 | 69.8 | 90.7 | 908.0 | 4342.2 | 5275.8 | 5249.8 |
| 50° | 23.9 | 27.5 | 37.1 | 69.4 | 74.2 | 57.7 | 68.7 | 866.1 | 4462.3 | 5378.7 | 5311.1 |
| 52.5° | 18.7 | 22.0 | 30.5 | 65.0 | 57.7 | 47.7 | 57.7 | 905.4 | 4626.8 | 5463.9 | 5345.6 |
| 55° | 15.1 | 18.4 | 23.9 | 37.1 | 39.3 | 40.4 | 49.2 | 942.1 | 4910.7 | 5663.7 | 5549.5 |
| 57.5° | 12.5 | 15.8 | 19.5 | 26.1 | 29.8 | 34.2 | 43.7 | 946.2 | 5245.4 | 5995.7 | 5887.8 |
| 59° | 11.4 | 14.3 | 17.6 | 23.1 | 26.1 | 31.2 | 41.1 | 924.1 | 5363.3 | 6116.6 | 6062.6 |
| 60° | 10.7 | 13.6 | 16.5 | 21.3 | 24.2 | 29.4 | 39.7 | 903.2 | 5368.4 | 6112.2 | 6137.1 |
| 62.5° | 9.2 | 12.1 | 14.7 | 18.0 | 20.6 | 25.0 | 35.6 | 825.7 | 5151.0 | 5912.0 | 6092.3 |
| 65° | 8.1 | 10.7 | 13.2 | 15.4 | 17.6 | 22.4 | 32.3 | 684.3 | 4779.6 | 5589.1 | 5785.6 |
| 67.5° | 7.3 | 9.2 | 12.1 | 13.6 | 15.8 | 19.8 | 28.6 | 487.8 | 4315.7 | 5194.3 | 5321.7 |
| 70° | 6.6 | 8.8 | 11.0 | 12.5 | 14.3 | 17.3 | 24.6 | 280.2 | 3644.3 | 4616.2 | 4706.9 |
| 72.5° | 6.2 | 8.4 | 9.9 | 11.8 | 12.9 | 15.4 | 22.4 | 131.9 | 2668.4 | 3697.9 | 3934.8 |
| 75° | 5.5 | 7.7 | 9.2 | 11.0 | 12.1 | 14.0 | 19.1 | 63.2 | 1774.8 | 2676.1 | 2945.3 |
| 77.5° | 3.3 | 6.2 | 8.4 | 9.9 | 10.7 | 12.1 | 15.8 | 36.4 | 1132.7 | 1852.3 | 2181.7 |
| 80° | 0.0 | 2.2 | 6.2 | 8.4 | 9.2 | 10.3 | 12.1 | 28.6 | 606.0 | 1058.2 | 1270.1 |
| 82.5° | 0.0 | 0.0 | 4.4 | 6.6 | 6.2 | 7.0 | 9.2 | 18.0 | 273.3 | 691.6 | 779.4 |
| 85° | 0.0 | 0.0 | 1.5 | 5.1 | 4.4 | 3.3 | 6.2 | 6.2 | 59.9 | 350.0 | 436.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.4 | 2.2 | 1.5 | 2.6 | 0.7 | 0.4 | 26.1 | 105.8 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 | 2525.5 |
| 2.5° | 2855.0 | 2882.2 | 2928.1 | 2949.8 | 2939.1 | 2893.9 | 2839.9 | 2784.8 | 2752.5 | 2765.4 |
| 5° | 3030.6 | 3170.5 | 3251.3 | 3278.1 | 3233.3 | 3131.9 | 2999.3 | 2824.5 | 2762.4 | 2745.5 |
| 7.5° | 3030.6 | 3293.9 | 3460.7 | 3490.0 | 3390.1 | 3191.4 | 2942.8 | 2669.9 | 2579.2 | 2546.1 |
| 10° | 2924.0 | 3282.5 | 3515.0 | 3561.7 | 3422.1 | 3125.0 | 2791.8 | 2480.3 | 2372.7 | 2338.6 |
| 12.5° | 2803.9 | 3190.0 | 3434.9 | 3499.2 | 3384.6 | 3058.8 | 2687.1 | 2352.2 | 2225.4 | 2195.7 |
| 15° | 2730.1 | 3076.1 | 3278.8 | 3325.5 | 3277.0 | 3020.3 | 2662.2 | 2313.6 | 2164.5 | 2135.8 |
| 17.5° | 2756.6 | 2988.0 | 3061.0 | 3088.2 | 3120.9 | 3006.7 | 2730.1 | 2398.1 | 2209.3 | 2182.1 |
| 20° | 2856.1 | 2895.0 | 2857.2 | 2891.4 | 2979.5 | 3019.9 | 2892.1 | 2602.3 | 2375.7 | 2339.3 |
| 22.5° | 3025.0 | 2846.9 | 2740.8 | 2754.4 | 2861.6 | 3063.6 | 3139.6 | 2893.9 | 2632.4 | 2586.9 |
| 25° | 3221.9 | 2885.8 | 2676.1 | 2664.0 | 2774.2 | 3121.3 | 3365.9 | 3211.3 | 2936.2 | 2885.8 |
| 27.5° | 3469.5 | 2973.3 | 2662.9 | 2650.8 | 2743.7 | 3175.3 | 3554.0 | 3524.9 | 3256.1 | 3170.1 |
| 30° | 3660.5 | 3059.2 | 2702.2 | 2674.3 | 2774.2 | 3212.7 | 3704.9 | 3791.2 | 3511.0 | 3454.0 |
| 32.5° | 3797.5 | 3160.6 | 2766.1 | 2725.7 | 2860.1 | 3277.4 | 3821.3 | 4035.1 | 3746.8 | 3660.5 |
| 35° | 3901.8 | 3270.8 | 2869.3 | 2802.8 | 2978.4 | 3375.4 | 3930.4 | 4294.8 | 3997.6 | 3903.3 |
| 37.5° | 3999.5 | 3425.4 | 3030.6 | 2951.2 | 3163.9 | 3533.4 | 4045.8 | 4589.4 | 4278.3 | 4165.5 |
| 40° | 4135.7 | 3600.6 | 3279.2 | 3208.7 | 3475.7 | 3748.6 | 4189.7 | 4896.4 | 4597.4 | 4455.7 |
| 42.5° | 4272.0 | 3788.7 | 3533.8 | 3552.9 | 3864.7 | 4010.1 | 4375.6 | 5221.1 | 4912.6 | 4761.3 |
| 45° | 4396.5 | 3982.6 | 3896.3 | 3984.4 | 4225.7 | 4297.0 | 4560.3 | 5408.8 | 5164.2 | 5018.0 |
| 47.5° | 4507.5 | 4225.0 | 4256.6 | 4491.3 | 4636.4 | 4556.7 | 4698.4 | 5570.8 | 5351.5 | 5222.6 |
| 50° | 4636.4 | 4538.7 | 4731.5 | 5063.5 | 5109.1 | 4791.7 | 4824.1 | 5762.5 | 5570.4 | 5466.8 |
| 52.5° | 4777.4 | 4869.2 | 5257.5 | 5550.2 | 5535.5 | 5047.0 | 4950.4 | 5977.4 | 5870.5 | 5773.2 |
| 55° | 4937.6 | 5136.3 | 5720.6 | 6005.7 | 5993.2 | 5332.0 | 5159.8 | 6242.9 | 6246.6 | 6158.4 |
| 57.5° | 5175.2 | 5366.2 | 6035.0 | 6374.0 | 6395.0 | 5661.1 | 5514.6 | 6540.4 | 6586.7 | 6527.9 |
| 59° | 5345.6 | 5515.3 | 6159.5 | 6527.9 | 6613.2 | 5915.7 | 5773.9 | 6713.1 | 6682.6 | 6629.0 |
| 60° | 5472.0 | 5610.1 | 6221.3 | 6608.4 | 6739.9 | 6088.3 | 5965.2 | 6814.4 | 6694.0 | 6629.0 |
| 62.5° | 5784.5 | 5816.5 | 6332.5 | 6699.5 | 6885.7 | 6471.8 | 6503.7 | 6987.1 | 6615.0 | 6508.8 |
| 65° | 5930.4 | 5946.9 | 6331.1 | 6536.4 | 6744.7 | 6770.4 | 6992.2 | 6992.2 | 6422.2 | 6259.1 |
| 67.5° | 5869.4 | 5789.7 | 6017.0 | 5995.7 | 6203.6 | 6593.0 | 7175.9 | 6735.8 | 6053.4 | 5842.6 |
| 70° | 5373.5 | 5066.8 | 4965.8 | 4975.0 | 5134.1 | 5734.6 | 6812.2 | 5981.4 | 5355.5 | 5109.1 |
| 72.5° | 4471.1 | 3735.4 | 3486.0 | 3770.7 | 3812.2 | 4407.2 | 5805.5 | 4504.5 | 3949.5 | 3718.5 |
| 75° | 3596.2 | 2633.1 | 2227.6 | 2528.1 | 2598.6 | 3225.2 | 4490.9 | 2805.4 | 2307.0 | 2127.0 |
| 77.5° | 2583.6 | 1890.1 | 1598.5 | 1577.5 | 1668.6 | 2045.5 | 3186.7 | 1411.9 | 1177.6 | 1098.9 |
| 80° | 1467.7 | 1244.0 | 1339.5 | 1263.9 | 1309.8 | 1278.9 | 1514.0 | 619.3 | 507.2 | 474.2 |
| 82.5° | 885.9 | 735.3 | 796.3 | 663.0 | 838.9 | 730.6 | 583.3 | 198.3 | 172.3 | 163.8 |
| 85° | 576.3 | 401.8 | 209.4 | 140.3 | 289.1 | 466.8 | 130.4 | 54.0 | 41.5 | 33.1 |
| 87.5° | 198.7 | 102.5 | 10.3 | 4.4 | 30.9 | 87.0 | 4.8 | 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 |

(END OF REPORT)