

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: P269511

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30216.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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: 25 FT

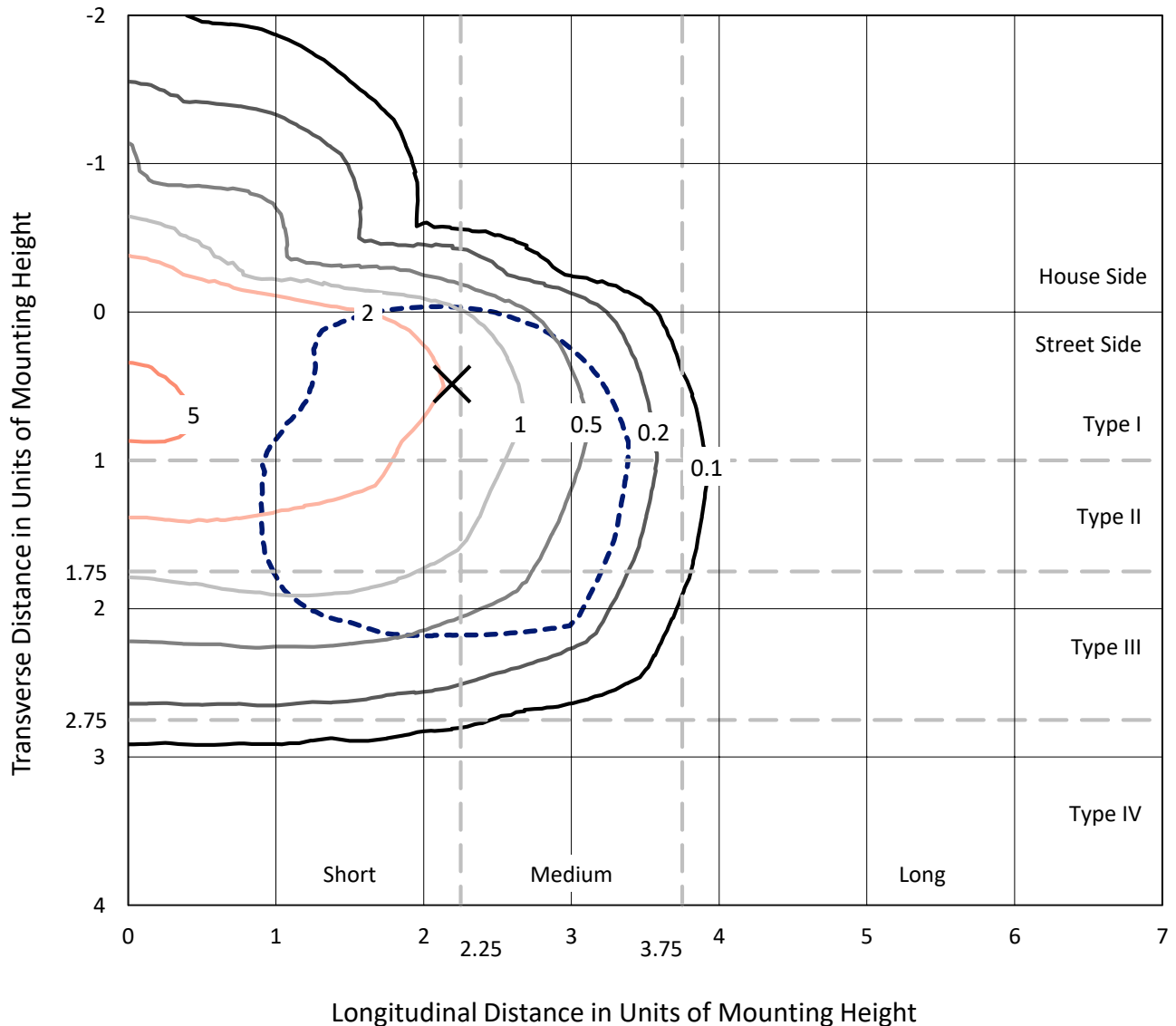


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

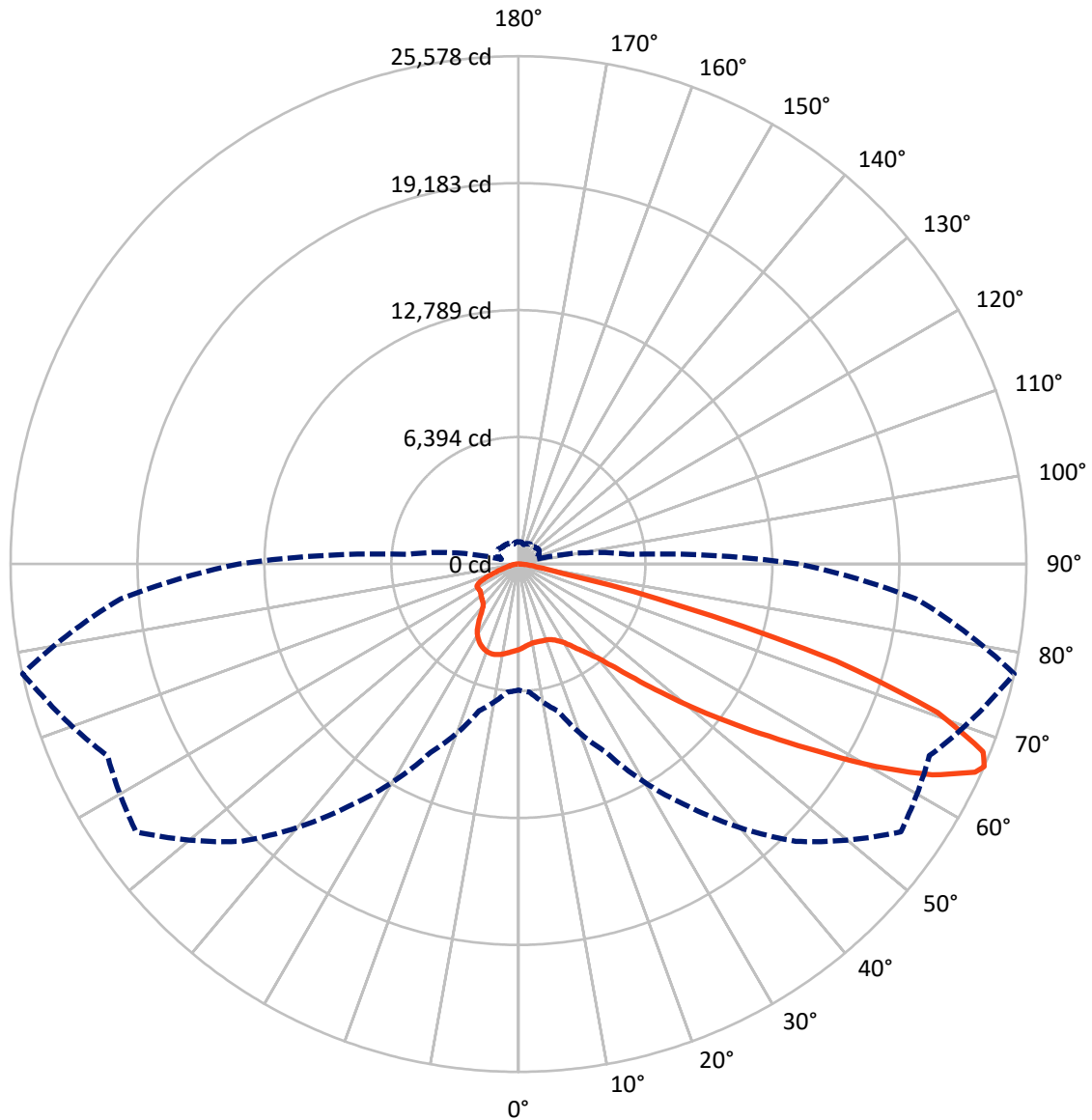


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5162.4 | 0.0 | 5162.4 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 25054.5 | 0.0 | 25054.5 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 30216.9 | 0.0 | 30216.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 384.7 | 1.3 |
| 10°-20° | 1085.3 | 3.6 |
| 20°-30° | 1852.3 | 6.1 |
| 30°-40° | 2965.2 | 9.8 |
| 40°-50° | 4580.9 | 15.2 |
| 50°-60° | 6497.3 | 21.5 |
| 60°-70° | 8691.7 | 28.8 |
| 70°-80° | 3774.6 | 12.5 |
| 80°-90° | 384.9 | 1.3 |
| 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° | 30216.9 | 100.0 |
| 0°-180° | 30216.9 | 100.0 |



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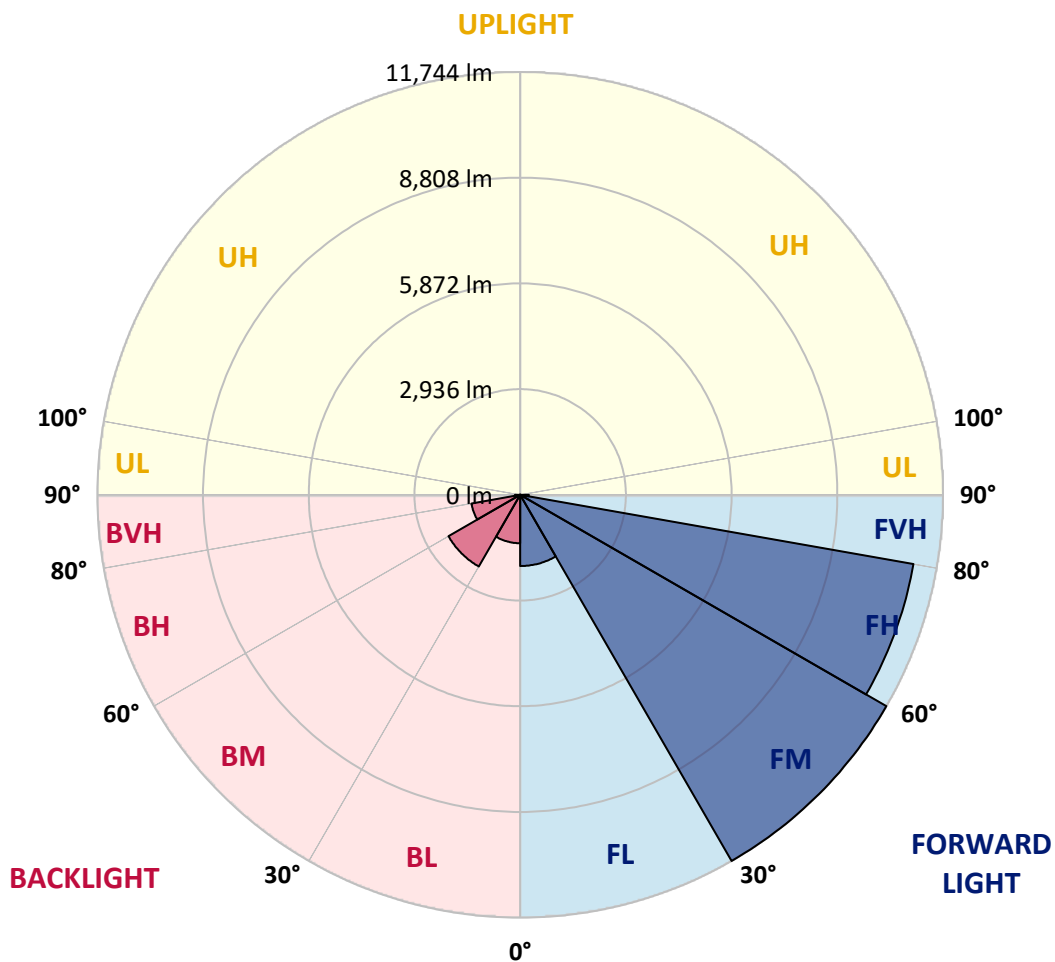
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1977.8 | 6.5 | | | |
| FM (30°-60°) | 11743.9 | 38.9 | | | |
| FH (60°-80°) | 11091.4 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 241.4 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1344.5 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2299.5 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1374.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 143.5 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 |
| 2.5° | 3809.3 | 3835.0 | 3856.3 | 3876.2 | 3916.3 | 3981.9 | 4057.6 | 4119.0 | 4207.5 | 4224.6 | 4271.8 |
| 5° | 3459.5 | 3459.5 | 3476.5 | 3506.5 | 3560.8 | 3659.2 | 3762.1 | 3899.2 | 4091.9 | 4137.6 | 4263.3 |
| 7.5° | 3289.6 | 3290.9 | 3300.9 | 3326.7 | 3373.8 | 3463.7 | 3576.5 | 3737.8 | 3999.1 | 4074.7 | 4288.9 |
| 10° | 3352.4 | 3338.0 | 3316.6 | 3303.7 | 3311.0 | 3363.8 | 3470.8 | 3650.7 | 3942.0 | 4039.0 | 4346.0 |
| 12.5° | 3703.5 | 3676.5 | 3602.2 | 3503.7 | 3409.4 | 3370.9 | 3433.7 | 3609.3 | 3917.7 | 4030.4 | 4421.6 |
| 15° | 4277.5 | 4266.1 | 4127.6 | 3923.3 | 3695.0 | 3503.7 | 3460.8 | 3593.6 | 3920.6 | 4040.4 | 4511.6 |
| 17.5° | 4997.1 | 4981.5 | 4798.7 | 4501.6 | 4129.0 | 3756.4 | 3556.5 | 3606.4 | 3930.5 | 4057.6 | 4598.8 |
| 20° | 5723.8 | 5675.2 | 5478.3 | 5124.1 | 4645.9 | 4100.5 | 3715.0 | 3639.4 | 3943.4 | 4076.1 | 4690.1 |
| 22.5° | 6266.3 | 6226.3 | 6049.2 | 5705.2 | 5154.1 | 4498.8 | 3927.7 | 3696.3 | 3984.8 | 4130.4 | 4802.9 |
| 25° | 6743.1 | 6746.0 | 6570.5 | 6237.8 | 5668.1 | 4921.5 | 4201.8 | 3849.1 | 4090.4 | 4241.7 | 4957.0 |
| 27.5° | 7332.9 | 7298.5 | 7134.3 | 6804.7 | 6176.3 | 5348.2 | 4533.0 | 4059.0 | 4247.5 | 4400.3 | 5159.9 |
| 30° | 8038.2 | 8013.9 | 7824.0 | 7450.0 | 6740.3 | 5806.6 | 4911.5 | 4303.2 | 4450.3 | 4608.8 | 5425.5 |
| 32.5° | 8867.7 | 8856.2 | 8659.2 | 8178.1 | 7391.3 | 6346.3 | 5355.4 | 4625.8 | 4752.9 | 4917.1 | 5806.6 |
| 35° | 9841.4 | 9842.8 | 9610.1 | 9031.9 | 8103.8 | 6974.5 | 5859.5 | 5041.4 | 5121.2 | 5292.6 | 6260.6 |
| 37.5° | 10441.0 | 10513.9 | 10426.7 | 9837.1 | 8910.5 | 7676.9 | 6513.3 | 5592.5 | 5541.0 | 5713.8 | 6747.4 |
| 40° | 10569.5 | 10658.0 | 10933.6 | 10633.7 | 9812.8 | 8450.7 | 7092.9 | 6122.0 | 6057.9 | 6269.2 | 7374.2 |
| 42.5° | 10389.6 | 10512.4 | 11095.0 | 11306.2 | 10770.9 | 9404.4 | 7872.6 | 6908.9 | 6827.4 | 7111.5 | 8153.7 |
| 45° | 10282.5 | 10373.9 | 11047.9 | 11656.0 | 11601.8 | 10482.4 | 8864.8 | 7896.8 | 7866.7 | 8239.4 | 9053.3 |
| 47.5° | 10096.9 | 10179.8 | 10827.9 | 11737.4 | 12090.1 | 11470.4 | 10057.0 | 9104.6 | 9163.3 | 9651.5 | 10068.5 |
| 50° | 10196.9 | 10231.2 | 10582.4 | 11530.4 | 12231.4 | 12194.3 | 11389.0 | 10503.8 | 10703.8 | 11313.3 | 11217.8 |
| 52.5° | 10182.6 | 10271.1 | 10553.7 | 11190.5 | 12249.9 | 12641.2 | 12701.1 | 12064.3 | 12485.5 | 13185.1 | 12492.6 |
| 55° | 8232.2 | 8395.1 | 10218.3 | 11104.8 | 12315.7 | 13079.5 | 13869.0 | 13709.2 | 14494.3 | 15309.6 | 13931.9 |
| 57.5° | 7861.1 | 7964.0 | 8974.7 | 11284.8 | 12663.9 | 13916.2 | 15168.2 | 15519.5 | 16833.0 | 17779.6 | 15685.0 |
| 60° | 7788.2 | 7915.3 | 8961.9 | 11504.8 | 13370.7 | 15279.6 | 17094.2 | 17711.1 | 19678.5 | 20715.0 | 17718.2 |
| 62.5° | 7561.3 | 7698.4 | 8877.7 | 11476.1 | 14374.4 | 17165.6 | 19560.0 | 20041.0 | 22376.9 | 23384.9 | 19418.7 |
| 65° | 6841.8 | 6970.2 | 8190.9 | 11014.9 | 15051.2 | 19178.8 | 22478.3 | 22176.9 | 24507.1 | 25265.2 | 20266.8 |
| 66° | 6349.1 | 6474.8 | 7649.7 | 10472.4 | 14894.1 | 19749.9 | 23512.0 | 22838.0 | 24983.9 | 25577.9 | 20101.1 |
| 67.5° | 5448.2 | 5546.8 | 6598.9 | 9257.5 | 14059.0 | 19909.8 | 24381.4 | 23334.9 | 25033.8 | 25243.8 | 19154.5 |
| 70° | 3442.2 | 3470.8 | 4288.9 | 6390.5 | 10642.3 | 17267.0 | 23058.0 | 22101.3 | 22969.4 | 22401.2 | 16057.7 |
| 72.5° | 1493.4 | 1483.5 | 2058.7 | 3251.0 | 6025.0 | 11586.1 | 18651.9 | 18236.4 | 18018.1 | 16721.6 | 11240.5 |
| 75° | 830.9 | 842.4 | 1069.4 | 1509.2 | 2448.6 | 5690.9 | 12201.4 | 11676.0 | 9858.4 | 8412.2 | 5097.1 |
| 77.5° | 666.7 | 682.4 | 886.6 | 1070.8 | 1099.3 | 1984.5 | 5709.4 | 4645.9 | 2797.0 | 2244.3 | 1416.3 |
| 80° | 526.9 | 555.4 | 773.8 | 833.7 | 741.0 | 818.0 | 1844.6 | 1474.8 | 1106.5 | 1015.2 | 733.8 |
| 82.5° | 417.0 | 436.8 | 663.8 | 631.1 | 518.2 | 551.1 | 883.8 | 860.9 | 719.6 | 655.4 | 424.0 |
| 85° | 299.9 | 337.0 | 545.5 | 475.5 | 339.7 | 371.2 | 586.9 | 562.5 | 412.6 | 337.0 | 187.0 |
| 87.5° | 122.8 | 159.9 | 385.6 | 315.6 | 189.9 | 172.7 | 292.7 | 275.6 | 195.7 | 142.8 | 92.9 |
| 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° | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 | 4306.0 |
| 2.5° | 4301.8 | 4335.9 | 4380.2 | 4407.4 | 4421.6 | 4431.7 | 4447.4 | 4446.0 | 4450.3 | 4451.7 | 4457.4 |
| 5° | 4330.3 | 4387.4 | 4451.7 | 4468.8 | 4468.8 | 4453.1 | 4437.4 | 4411.7 | 4401.8 | 4398.8 | 4401.8 |
| 7.5° | 4404.6 | 4467.5 | 4523.1 | 4503.1 | 4460.3 | 4397.5 | 4316.0 | 4244.6 | 4206.1 | 4193.3 | 4190.5 |
| 10° | 4498.8 | 4574.4 | 4597.3 | 4521.6 | 4395.9 | 4244.6 | 4083.3 | 3966.2 | 3899.2 | 3880.6 | 3874.8 |
| 12.5° | 4612.9 | 4684.4 | 4653.0 | 4493.1 | 4260.3 | 4016.2 | 3793.5 | 3606.4 | 3466.5 | 3422.4 | 3419.4 |
| 15° | 4738.6 | 4794.3 | 4684.4 | 4404.6 | 4057.6 | 3697.9 | 3300.9 | 2978.2 | 2804.1 | 2748.4 | 2744.1 |
| 17.5° | 4855.7 | 4884.3 | 4665.8 | 4250.4 | 3759.2 | 3176.6 | 2649.9 | 2401.4 | 2341.5 | 2355.7 | 2358.6 |
| 20° | 4955.7 | 4955.7 | 4603.1 | 4029.1 | 3289.6 | 2489.9 | 2157.3 | 2153.0 | 2195.8 | 2238.7 | 2247.3 |
| 22.5° | 5065.6 | 5000.0 | 4493.1 | 3716.4 | 2624.2 | 2037.4 | 1988.8 | 2028.8 | 2077.3 | 2124.5 | 2131.6 |
| 25° | 5201.2 | 5035.5 | 4340.3 | 3242.4 | 2063.0 | 1850.4 | 1869.0 | 1901.7 | 1926.1 | 1956.0 | 1960.3 |
| 27.5° | 5352.6 | 5081.4 | 4139.0 | 2590.0 | 1790.4 | 1733.3 | 1747.6 | 1759.1 | 1756.0 | 1767.5 | 1770.4 |
| 30° | 5533.9 | 5134.2 | 3863.4 | 2024.5 | 1677.6 | 1633.3 | 1607.6 | 1597.6 | 1597.6 | 1616.2 | 1623.3 |
| 32.5° | 5776.6 | 5212.7 | 3467.9 | 1734.6 | 1623.3 | 1562.0 | 1479.1 | 1442.0 | 1456.3 | 1519.2 | 1533.3 |
| 35° | 6043.5 | 5296.9 | 2932.5 | 1636.3 | 1611.9 | 1529.2 | 1400.5 | 1332.0 | 1333.5 | 1392.1 | 1410.6 |
| 37.5° | 6334.8 | 5403.9 | 2345.7 | 1617.6 | 1637.6 | 1530.5 | 1359.1 | 1265.0 | 1226.5 | 1226.5 | 1233.6 |
| 40° | 6707.6 | 5513.8 | 1898.8 | 1630.5 | 1691.9 | 1547.7 | 1337.8 | 1212.2 | 1103.7 | 1106.5 | 1112.2 |
| 42.5° | 7192.9 | 5608.2 | 1659.0 | 1657.6 | 1757.5 | 1570.4 | 1336.4 | 1142.1 | 1048.0 | 1112.2 | 1170.8 |
| 45° | 7732.6 | 5655.3 | 1553.3 | 1681.8 | 1810.4 | 1584.8 | 1313.5 | 1130.7 | 1055.1 | 1246.4 | 1357.8 |
| 47.5° | 8353.7 | 5628.2 | 1494.8 | 1690.4 | 1823.2 | 1584.8 | 1287.8 | 1157.8 | 1105.0 | 1443.4 | 1573.3 |
| 50° | 9034.8 | 5549.5 | 1437.7 | 1673.4 | 1819.0 | 1581.9 | 1312.1 | 1185.0 | 1123.6 | 1477.7 | 1567.6 |
| 52.5° | 9835.6 | 5484.0 | 1377.8 | 1636.3 | 1789.0 | 1566.3 | 1340.6 | 1173.5 | 1065.1 | 1343.4 | 1406.3 |
| 55° | 10749.4 | 5502.5 | 1310.6 | 1583.4 | 1741.9 | 1536.2 | 1330.7 | 1127.9 | 1003.6 | 1183.5 | 1222.1 |
| 57.5° | 11917.4 | 5723.8 | 1230.7 | 1516.2 | 1677.6 | 1486.2 | 1294.9 | 1106.5 | 985.1 | 1073.7 | 1096.6 |
| 60° | 13220.9 | 6109.3 | 1130.7 | 1449.1 | 1597.6 | 1406.3 | 1267.8 | 1116.6 | 993.7 | 1065.1 | 1076.4 |
| 62.5° | 14177.4 | 6333.4 | 1045.1 | 1350.6 | 1489.1 | 1317.9 | 1233.6 | 1129.3 | 1016.5 | 1095.0 | 1092.2 |
| 65° | 14437.3 | 5965.0 | 938.0 | 1206.5 | 1342.1 | 1225.0 | 1190.8 | 1143.6 | 1026.6 | 1119.4 | 1106.5 |
| 66° | 14073.1 | 5568.1 | 890.8 | 1139.3 | 1267.8 | 1179.4 | 1169.4 | 1142.1 | 1022.2 | 1122.3 | 1100.9 |
| 67.5° | 13189.5 | 4754.4 | 809.6 | 1040.9 | 1149.3 | 1110.8 | 1135.1 | 1129.3 | 1010.9 | 1119.4 | 1089.4 |
| 70° | 10756.6 | 3243.8 | 692.5 | 866.7 | 956.5 | 978.1 | 1069.4 | 1083.6 | 973.8 | 1069.4 | 1003.6 |
| 72.5° | 7515.6 | 1976.0 | 612.6 | 672.6 | 773.8 | 833.7 | 979.4 | 1020.8 | 923.7 | 933.8 | 870.9 |
| 75° | 3632.1 | 1049.4 | 555.4 | 521.1 | 601.1 | 696.7 | 870.9 | 935.1 | 845.2 | 780.9 | 758.1 |
| 77.5° | 1132.3 | 641.0 | 471.2 | 419.8 | 471.2 | 562.5 | 728.2 | 819.6 | 752.4 | 653.8 | 645.3 |
| 80° | 608.2 | 471.2 | 362.6 | 337.0 | 372.6 | 441.2 | 572.5 | 683.9 | 646.8 | 586.9 | 524.0 |
| 82.5° | 401.3 | 305.6 | 268.5 | 261.2 | 284.1 | 337.0 | 425.4 | 566.8 | 566.8 | 502.5 | 365.5 |
| 85° | 207.0 | 187.0 | 184.2 | 184.2 | 198.4 | 224.1 | 289.9 | 436.8 | 465.4 | 265.5 | 219.8 |
| 87.5° | 102.8 | 107.1 | 99.9 | 104.3 | 111.4 | 110.0 | 138.5 | 219.8 | 262.8 | 161.3 | 134.1 |
| 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)