

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: P191445

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34804.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

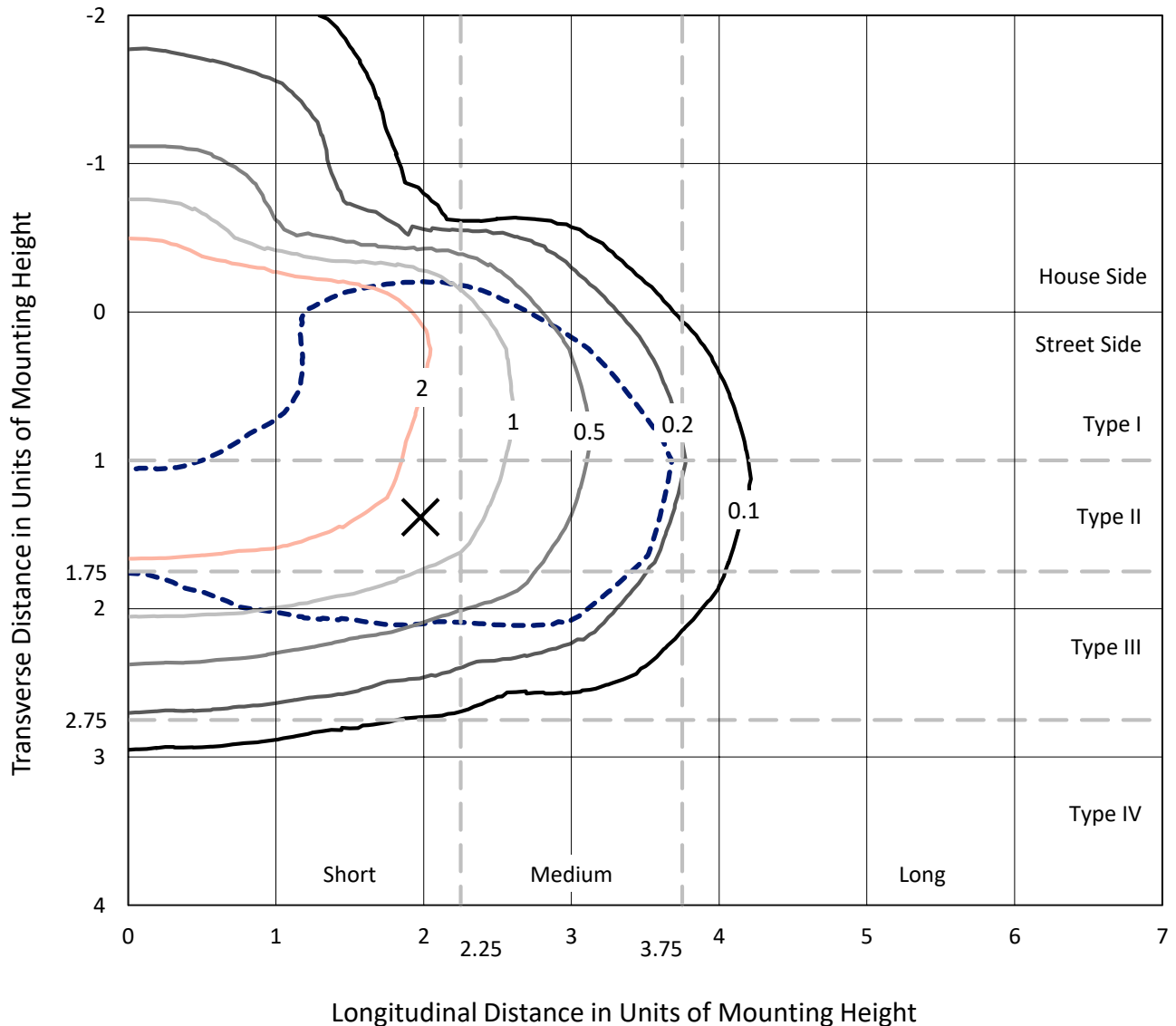
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

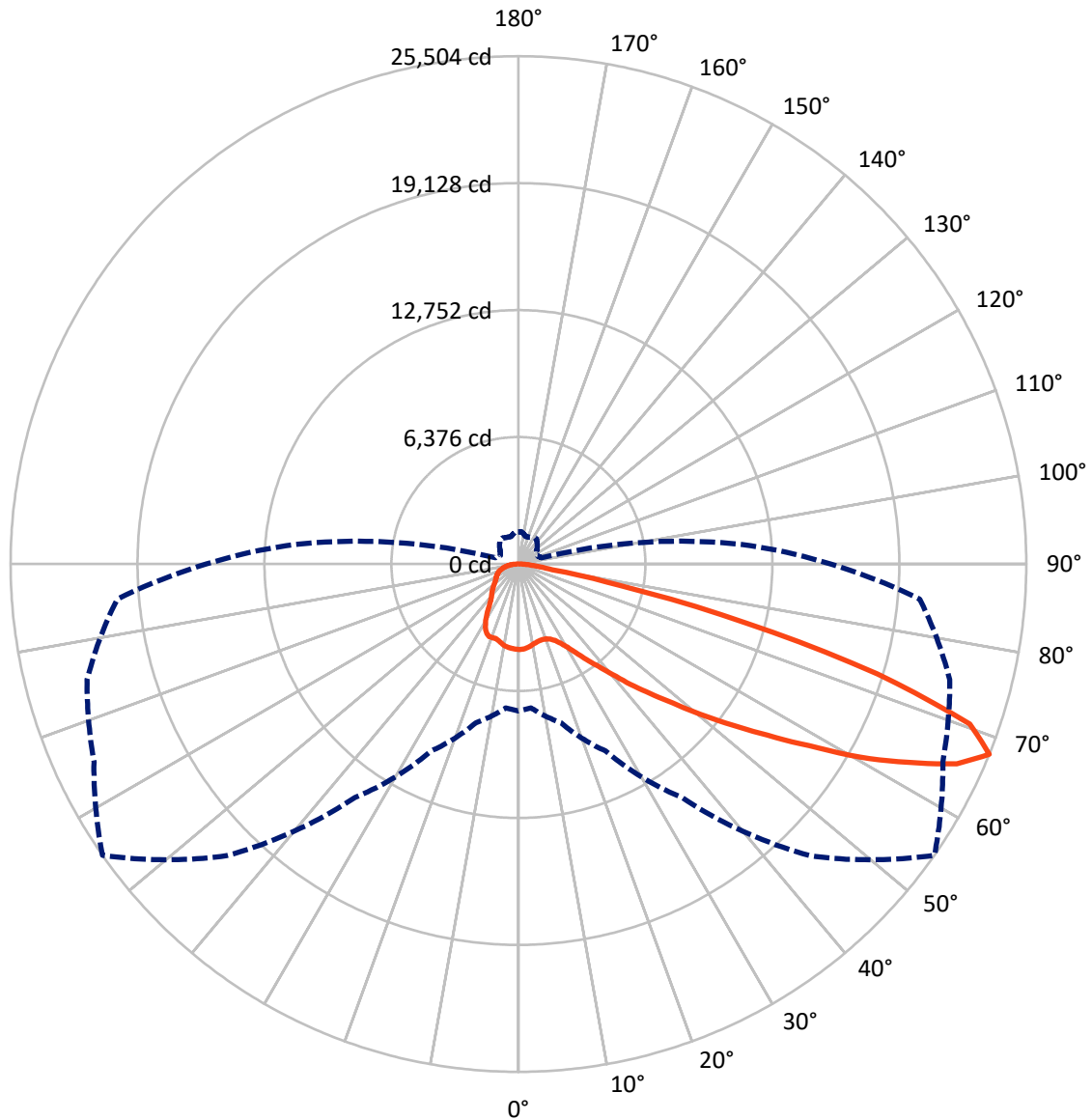
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7518.6 | 0.0 | 7518.6 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 27286.3 | 0.0 | 27286.3 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 34804.9 | 0.0 | 34804.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.6 | 1.2 |
| 10°-20° | 1134.5 | 3.3 |
| 20°-30° | 1900.5 | 5.5 |
| 30°-40° | 3125.3 | 9.0 |
| 40°-50° | 5260.8 | 15.1 |
| 50°-60° | 8280.1 | 23.8 |
| 60°-70° | 9881.4 | 28.4 |
| 70°-80° | 4243.2 | 12.2 |
| 80°-90° | 578.5 | 1.7 |
| 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° | 34804.9 | 100.0 |
| 0°-180° | 34804.9 | 100.0 |



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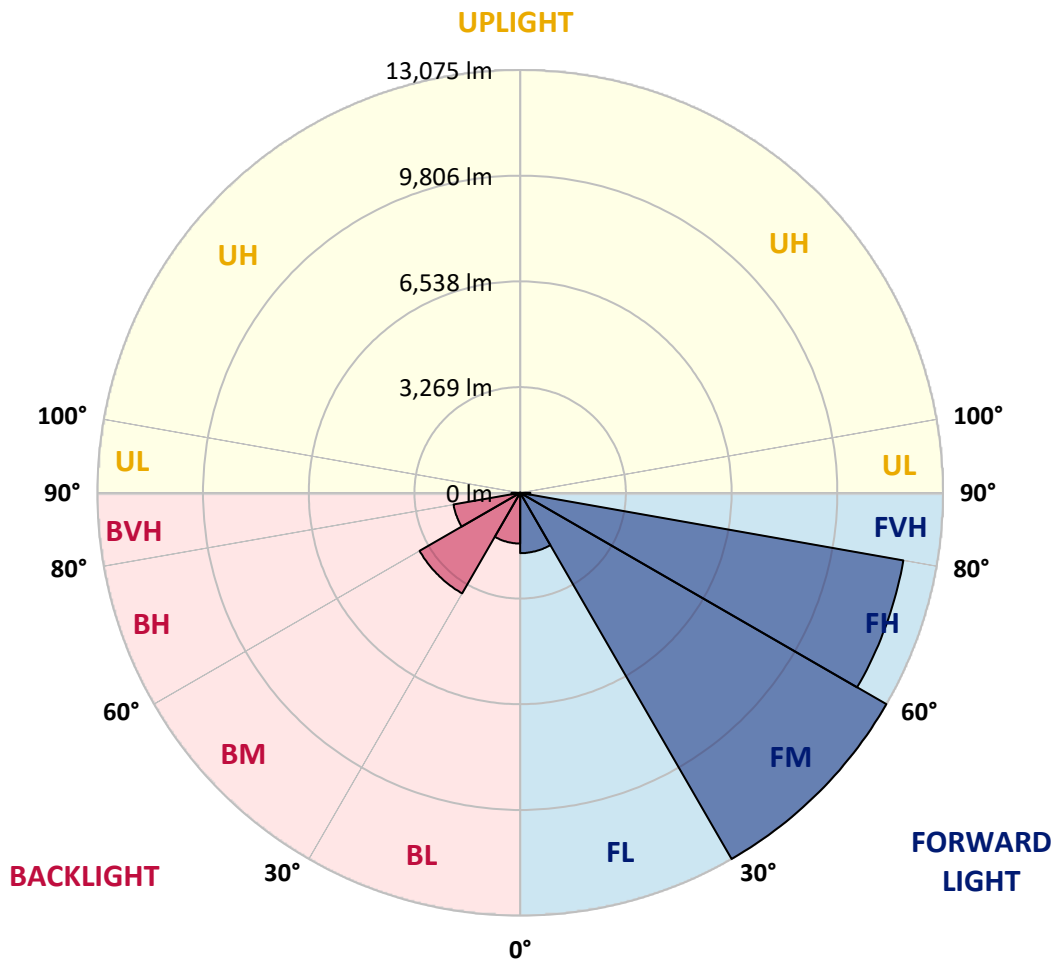
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1865.6 | 5.4 | | | |
| FM | (30°-60°) | 13075.3 | 37.6 | | | |
| FH | (60°-80°) | 12032.2 | 34.6 | | | G5 |
| FVH | (80°-90°) | 313.2 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1570.0 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3590.8 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2092.4 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 265.4 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 |
| 2.5° | 4254.9 | 4256.5 | 4259.9 | 4273.4 | 4285.1 | 4281.8 | 4283.4 | 4276.7 | 4275.0 | 4264.9 | 4275.0 |
| 5° | 4201.1 | 4206.1 | 4207.8 | 4229.6 | 4243.1 | 4246.5 | 4241.4 | 4233.0 | 4222.9 | 4212.8 | 4217.8 |
| 7.5° | 4078.3 | 4091.8 | 4093.4 | 4123.7 | 4145.6 | 4174.2 | 4175.8 | 4177.5 | 4172.5 | 4165.8 | 4175.8 |
| 10° | 4001.0 | 4004.3 | 4002.7 | 4024.5 | 4041.4 | 4073.3 | 4091.8 | 4123.7 | 4137.1 | 4140.5 | 4147.2 |
| 12.5° | 3996.0 | 3992.6 | 3987.6 | 3987.6 | 3982.6 | 3996.0 | 4029.6 | 4074.9 | 4106.9 | 4117.0 | 4125.4 |
| 15° | 4049.8 | 4048.0 | 4031.2 | 4006.1 | 3974.1 | 3964.0 | 3992.6 | 4043.0 | 4085.1 | 4106.9 | 4115.3 |
| 17.5° | 4170.8 | 4160.6 | 4133.8 | 4076.7 | 4007.7 | 3980.8 | 3984.2 | 4026.2 | 4074.9 | 4103.6 | 4112.0 |
| 20° | 4392.7 | 4392.7 | 4335.6 | 4228.0 | 4105.2 | 4041.4 | 4011.1 | 4036.3 | 4083.4 | 4122.1 | 4133.8 |
| 22.5° | 4776.0 | 4779.3 | 4683.5 | 4507.0 | 4300.2 | 4164.0 | 4088.4 | 4083.4 | 4138.9 | 4182.5 | 4196.0 |
| 25° | 5318.9 | 5305.5 | 5171.0 | 4918.9 | 4604.5 | 4379.3 | 4248.1 | 4217.8 | 4264.9 | 4313.7 | 4330.5 |
| 27.5° | 5951.0 | 5902.3 | 5742.6 | 5438.3 | 5031.5 | 4702.0 | 4500.3 | 4451.6 | 4496.9 | 4552.4 | 4569.2 |
| 30° | 6576.4 | 6526.0 | 6336.1 | 6003.2 | 5550.9 | 5134.1 | 4844.9 | 4765.9 | 4829.8 | 4908.7 | 4918.9 |
| 32.5° | 7201.8 | 7201.8 | 6989.9 | 6601.6 | 6109.1 | 5650.2 | 5303.8 | 5209.7 | 5315.6 | 5411.4 | 5433.3 |
| 35° | 7949.9 | 7953.2 | 7748.1 | 7280.8 | 6751.3 | 6265.5 | 5883.8 | 5814.9 | 5974.5 | 6041.9 | 6093.9 |
| 37.5° | 8869.4 | 8887.9 | 8624.0 | 8059.1 | 7479.2 | 6968.1 | 6514.3 | 6420.0 | 6579.8 | 6763.0 | 6931.1 |
| 40° | 9863.0 | 9886.5 | 9595.7 | 8899.7 | 8319.8 | 7785.2 | 7294.3 | 7124.4 | 7390.1 | 7739.7 | 7956.6 |
| 42.5° | 10811.1 | 10932.2 | 10651.4 | 9935.2 | 9311.5 | 8758.5 | 8260.8 | 8013.8 | 8346.6 | 8874.5 | 9062.7 |
| 45° | 12181.2 | 12268.6 | 11779.4 | 11130.5 | 10543.8 | 9925.2 | 9266.2 | 9005.5 | 9471.3 | 10136.9 | 10175.6 |
| 47.5° | 13094.0 | 13028.4 | 12779.6 | 12376.2 | 12004.6 | 11426.4 | 10434.5 | 10148.7 | 10767.4 | 11550.8 | 11333.9 |
| 50° | 13579.9 | 13600.0 | 13566.4 | 13589.9 | 13603.4 | 13240.3 | 11866.8 | 11475.2 | 12213.1 | 13159.5 | 12660.2 |
| 52.5° | 14033.8 | 13899.2 | 14010.2 | 14561.6 | 15227.3 | 15092.8 | 13425.2 | 13016.6 | 13763.1 | 14944.9 | 14062.3 |
| 55° | 14023.6 | 13818.5 | 14179.9 | 15153.4 | 16597.4 | 16752.0 | 15175.2 | 14704.5 | 15402.2 | 16859.7 | 15548.4 |
| 57.5° | 13527.7 | 13537.8 | 14094.2 | 15368.5 | 17552.3 | 18312.1 | 17205.9 | 16499.9 | 17140.4 | 18799.6 | 16905.1 |
| 60° | 12845.2 | 12937.7 | 13739.6 | 15333.2 | 18317.2 | 19591.5 | 19697.3 | 18434.8 | 18843.4 | 20563.1 | 18028.0 |
| 62.5° | 11744.1 | 11841.6 | 12947.8 | 14966.7 | 18201.2 | 20823.7 | 21950.0 | 20630.4 | 20623.6 | 21632.2 | 18357.5 |
| 65° | 10007.5 | 9979.0 | 11140.5 | 13596.7 | 17227.8 | 21734.8 | 24187.5 | 22528.2 | 21965.1 | 21649.1 | 17695.1 |
| 67.5° | 7380.0 | 7252.2 | 8249.1 | 10355.5 | 14319.5 | 20714.3 | 25503.8 | 23516.7 | 22422.4 | 20225.2 | 15671.1 |
| 70° | 3829.5 | 3701.8 | 4508.7 | 6046.9 | 9417.5 | 16167.0 | 24046.3 | 23005.8 | 21412.0 | 16953.8 | 12277.0 |
| 72.5° | 1637.3 | 1615.5 | 1943.3 | 2652.7 | 4555.7 | 9325.0 | 18855.1 | 19912.6 | 18372.6 | 12631.7 | 8440.8 |
| 75° | 1101.1 | 1094.4 | 1217.1 | 1445.7 | 2049.3 | 3784.1 | 11799.5 | 14134.6 | 13442.0 | 7832.2 | 4747.4 |
| 77.5° | 864.1 | 855.7 | 927.9 | 1038.9 | 1328.1 | 1492.8 | 5236.6 | 7588.5 | 7023.6 | 3409.3 | 2077.8 |
| 80° | 675.8 | 669.1 | 714.4 | 775.0 | 954.8 | 941.4 | 1723.2 | 3019.2 | 2336.7 | 1306.2 | 1010.4 |
| 82.5° | 532.9 | 532.9 | 569.9 | 571.5 | 677.5 | 642.2 | 899.4 | 1329.7 | 1166.7 | 761.5 | 618.7 |
| 85° | 487.5 | 487.5 | 526.2 | 427.0 | 442.1 | 405.2 | 558.1 | 788.4 | 739.7 | 312.7 | 268.9 |
| 87.5° | 245.4 | 238.8 | 442.1 | 378.3 | 240.4 | 215.2 | 272.3 | 381.6 | 410.2 | 173.2 | 134.5 |
| 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° | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 | 4291.8 |
| 2.5° | 4271.6 | 4270.0 | 4273.4 | 4275.0 | 4288.4 | 4306.9 | 4315.3 | 4327.1 | 4333.8 | 4330.5 |
| 5° | 4221.2 | 4224.6 | 4238.0 | 4248.1 | 4271.6 | 4301.9 | 4318.7 | 4332.2 | 4344.0 | 4338.8 |
| 7.5° | 4179.2 | 4187.6 | 4207.8 | 4216.2 | 4229.6 | 4238.0 | 4236.3 | 4241.4 | 4251.5 | 4239.7 |
| 10° | 4155.6 | 4165.8 | 4180.9 | 4169.1 | 4137.1 | 4091.8 | 4049.8 | 4027.9 | 4034.6 | 4026.2 |
| 12.5° | 4132.1 | 4145.6 | 4133.8 | 4078.3 | 3989.2 | 3930.4 | 3898.5 | 3901.8 | 3917.0 | 3920.3 |
| 15° | 4118.7 | 4123.7 | 4073.3 | 3969.0 | 3878.3 | 3869.8 | 3886.7 | 3883.3 | 3885.0 | 3885.0 |
| 17.5° | 4118.7 | 4105.2 | 4011.1 | 3906.9 | 3868.2 | 3853.0 | 3801.0 | 3735.4 | 3706.8 | 3696.7 |
| 20° | 4140.5 | 4105.2 | 3990.9 | 3922.0 | 3837.9 | 3708.5 | 3570.6 | 3449.6 | 3395.8 | 3380.6 |
| 22.5° | 4206.1 | 4145.6 | 4048.0 | 3928.7 | 3690.0 | 3473.1 | 3254.6 | 3110.0 | 3012.5 | 2995.7 |
| 25° | 4338.8 | 4271.6 | 4160.6 | 3839.6 | 3454.6 | 3145.4 | 2896.5 | 2735.2 | 2637.7 | 2624.2 |
| 27.5° | 4570.9 | 4527.2 | 4221.2 | 3642.9 | 3142.0 | 2810.8 | 2580.5 | 2456.1 | 2383.8 | 2378.8 |
| 30° | 4920.6 | 4898.7 | 4190.9 | 3352.1 | 2757.0 | 2486.3 | 2375.4 | 2303.1 | 2249.3 | 2247.6 |
| 32.5° | 5478.7 | 5302.2 | 4091.8 | 2997.3 | 2405.7 | 2256.0 | 2210.6 | 2166.9 | 2124.9 | 2124.9 |
| 35° | 6196.5 | 5628.3 | 3903.5 | 2617.4 | 2192.2 | 2128.2 | 2071.1 | 2002.2 | 1946.7 | 1943.3 |
| 37.5° | 7040.4 | 5830.0 | 3565.6 | 2311.5 | 2091.3 | 2042.5 | 1958.4 | 1855.9 | 1758.5 | 1741.6 |
| 40° | 7892.7 | 5890.6 | 3089.8 | 2123.2 | 2027.4 | 1956.8 | 1854.2 | 1733.2 | 1639.1 | 1634.1 |
| 42.5° | 8674.4 | 5774.6 | 2585.5 | 1993.7 | 1963.6 | 1869.3 | 1761.8 | 1654.2 | 1580.3 | 1578.5 |
| 45° | 9330.0 | 5473.6 | 2161.9 | 1871.1 | 1896.2 | 1790.4 | 1694.5 | 1607.2 | 1550.0 | 1538.2 |
| 47.5° | 9947.0 | 5048.3 | 1864.3 | 1741.6 | 1829.0 | 1746.7 | 1666.0 | 1583.6 | 1528.1 | 1519.7 |
| 50° | 10663.1 | 4589.4 | 1655.9 | 1615.5 | 1770.2 | 1731.5 | 1689.5 | 1603.8 | 1511.3 | 1501.2 |
| 52.5° | 11530.6 | 4192.7 | 1492.8 | 1504.6 | 1724.8 | 1751.7 | 1750.1 | 1661.0 | 1499.5 | 1486.0 |
| 55° | 12498.9 | 3752.2 | 1370.0 | 1413.8 | 1706.3 | 1788.6 | 1765.1 | 1714.7 | 1509.6 | 1489.4 |
| 57.5° | 13452.1 | 3237.7 | 1284.3 | 1344.9 | 1679.4 | 1785.4 | 1692.9 | 1620.6 | 1533.2 | 1504.6 |
| 60° | 14166.5 | 2546.8 | 1218.7 | 1284.3 | 1620.6 | 1729.8 | 1613.8 | 1518.1 | 1528.1 | 1506.3 |
| 62.5° | 14213.6 | 1968.6 | 1139.8 | 1232.2 | 1531.5 | 1674.4 | 1561.7 | 1472.6 | 1550.0 | 1529.8 |
| 65° | 13378.2 | 1487.8 | 1064.2 | 1170.1 | 1435.6 | 1639.1 | 1511.3 | 1447.4 | 1595.4 | 1573.5 |
| 67.5° | 11263.3 | 1197.0 | 1000.2 | 1106.1 | 1339.9 | 1565.1 | 1465.9 | 1423.8 | 1635.7 | 1597.0 |
| 70° | 8131.4 | 1020.4 | 938.0 | 1028.8 | 1254.1 | 1481.0 | 1425.6 | 1381.9 | 1526.4 | 1465.9 |
| 72.5° | 5006.3 | 884.2 | 867.5 | 926.3 | 1188.6 | 1393.7 | 1365.0 | 1302.8 | 1375.2 | 1326.4 |
| 75° | 2499.8 | 766.6 | 788.4 | 825.4 | 1096.1 | 1294.4 | 1264.2 | 1202.0 | 1212.1 | 1202.0 |
| 77.5° | 1197.0 | 655.6 | 696.0 | 724.6 | 976.7 | 1181.8 | 1149.9 | 1086.0 | 1074.2 | 1075.9 |
| 80° | 758.2 | 548.0 | 586.7 | 606.9 | 872.5 | 1050.7 | 1018.8 | 954.8 | 1089.3 | 1010.4 |
| 82.5° | 474.0 | 445.5 | 455.6 | 492.6 | 759.8 | 914.5 | 872.5 | 815.3 | 981.7 | 776.6 |
| 85° | 262.3 | 311.0 | 324.5 | 356.4 | 585.0 | 764.9 | 722.9 | 650.6 | 583.4 | 573.3 |
| 87.5° | 156.3 | 184.9 | 190.0 | 213.5 | 393.3 | 553.1 | 489.2 | 464.0 | 384.9 | 383.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)