

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: P269600

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45149.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

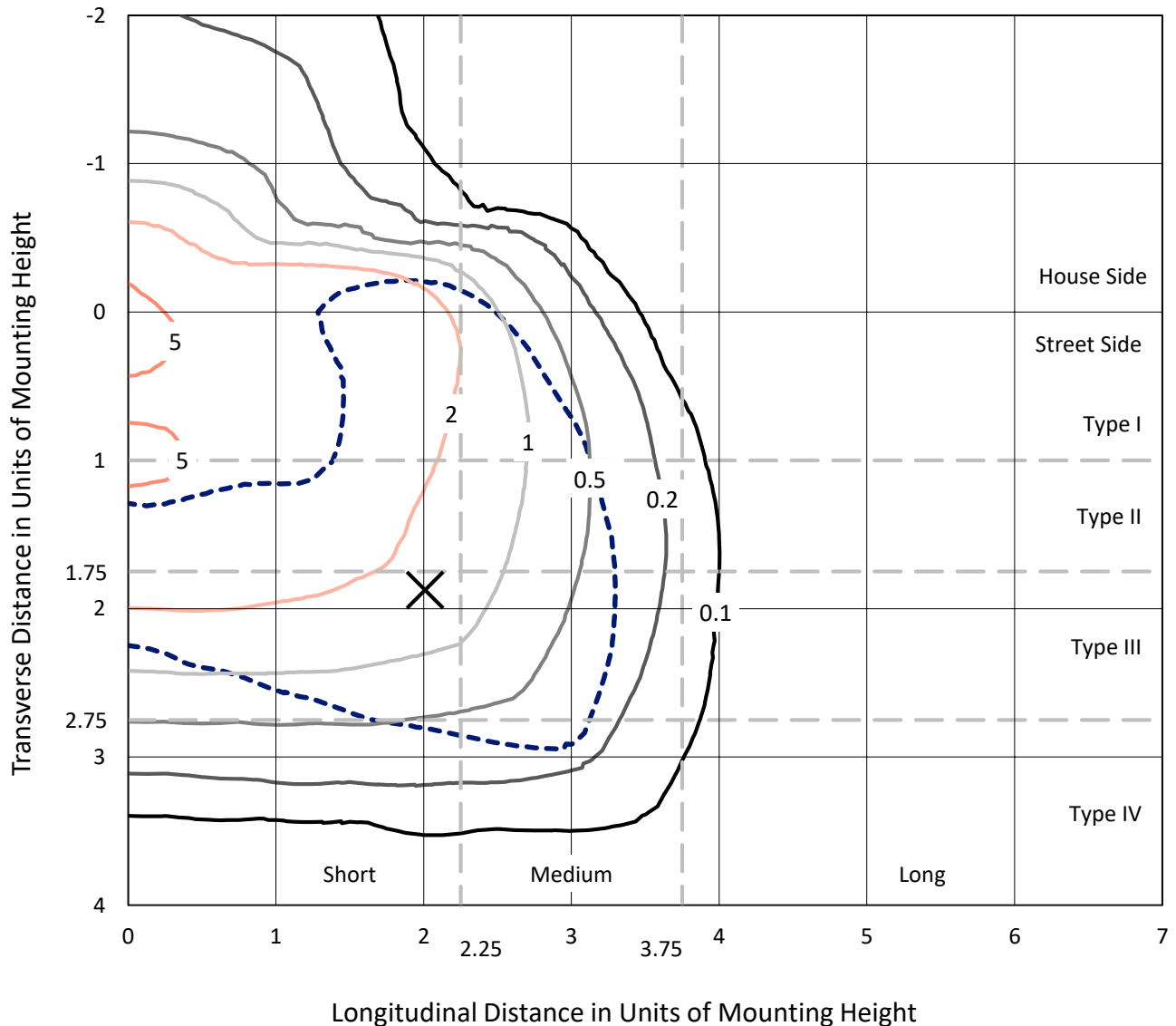


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

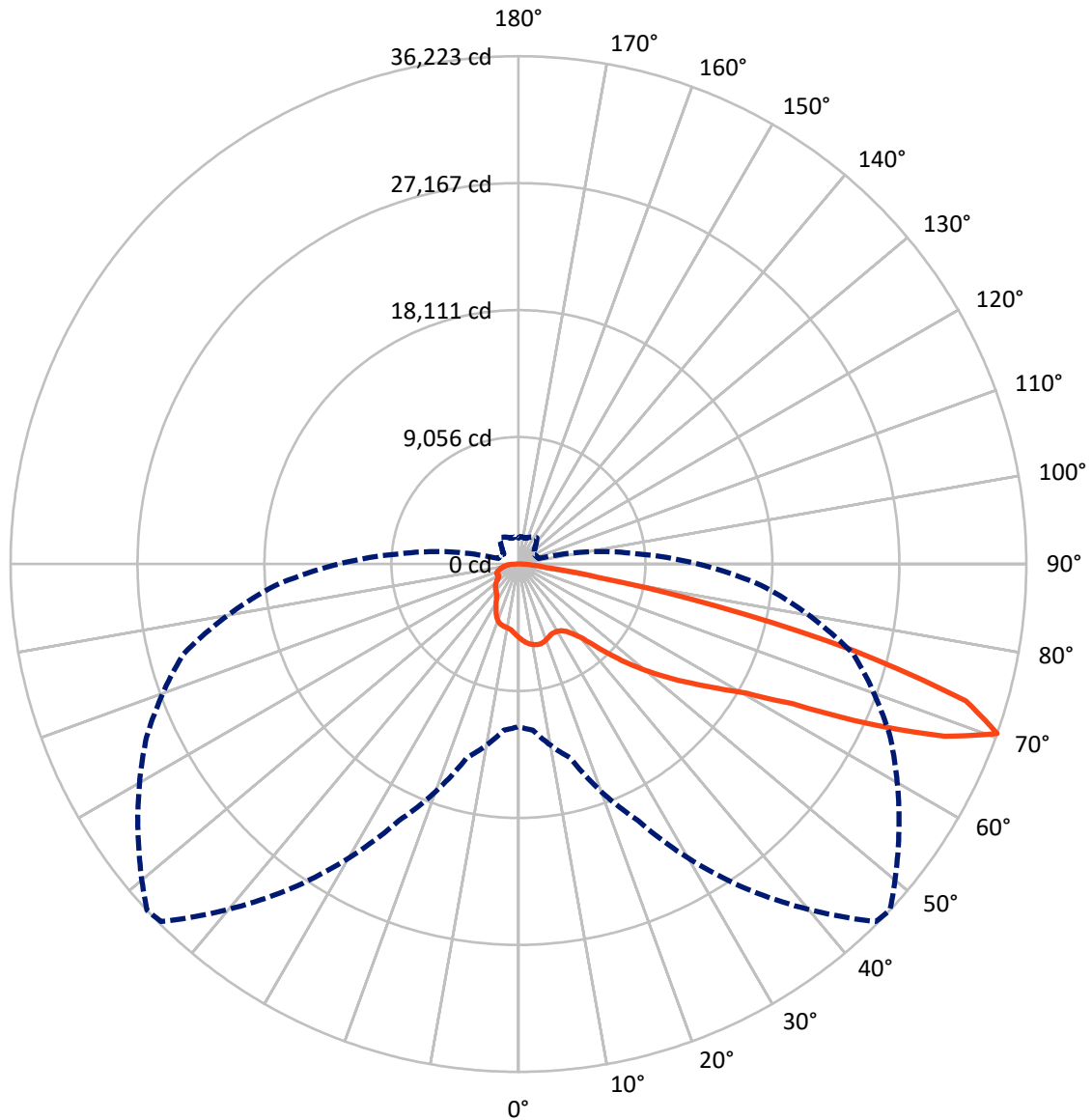


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9419.0 | 0.0 | 9419.0 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 35730.1 | 0.0 | 35730.1 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 45149.1 | 0.0 | 45149.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 502.0 | 1.1 |
| 10°-20° | 1472.6 | 3.3 |
| 20°-30° | 2174.6 | 4.8 |
| 30°-40° | 3160.8 | 7.0 |
| 40°-50° | 5688.3 | 12.6 |
| 50°-60° | 9854.5 | 21.8 |
| 60°-70° | 14065.2 | 31.2 |
| 70°-80° | 7220.3 | 16.0 |
| 80°-90° | 1010.9 | 2.2 |
| 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° | 45149.1 | 100.0 |
| 0°-180° | 45149.1 | 100.0 |



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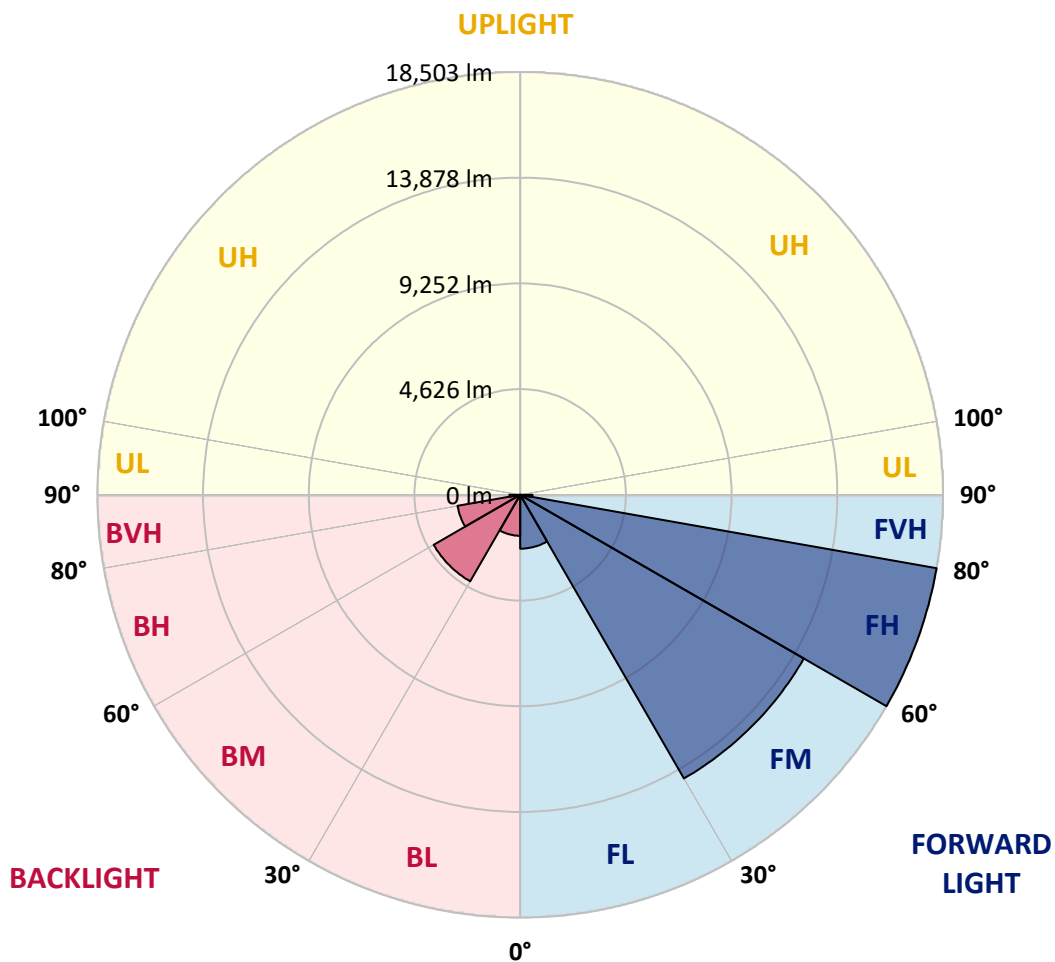
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2355.8 | 5.2 | | | |
| FM | (30°-60°) | 14331.6 | 31.7 | | | |
| FH | (60°-80°) | 18503.3 | 41.0 | | | G5 |
| FVH | (80°-90°) | 539.4 | 1.2 | | | G4/750 |
| BL | (0°-30°) | 1793.4 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 4372.0 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 2782.1 | 6.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 471.5 | 1.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 |
| 2.5° | 5546.2 | 5535.3 | 5530.9 | 5522.1 | 5511.1 | 5456.1 | 5445.2 | 5405.6 | 5350.8 | 5293.6 | 5234.3 |
| 5° | 5910.8 | 5908.6 | 5884.4 | 5840.6 | 5770.3 | 5649.4 | 5621.0 | 5524.2 | 5394.6 | 5269.5 | 5144.2 |
| 7.5° | 6231.5 | 6211.8 | 6165.6 | 6077.8 | 5954.8 | 5790.0 | 5750.5 | 5616.6 | 5438.6 | 5267.2 | 5098.2 |
| 10° | 6466.5 | 6455.6 | 6354.5 | 6233.7 | 6073.4 | 5891.1 | 5844.9 | 5695.6 | 5500.1 | 5282.7 | 5071.8 |
| 12.5° | 6600.6 | 6578.6 | 6462.1 | 6317.2 | 6126.1 | 5948.1 | 5902.0 | 5750.5 | 5530.9 | 5282.7 | 5034.5 |
| 15° | 6591.8 | 6576.4 | 6460.0 | 6301.8 | 6108.6 | 5952.6 | 5910.8 | 5759.3 | 5524.2 | 5260.7 | 4986.1 |
| 17.5° | 6416.1 | 6422.6 | 6323.8 | 6167.9 | 6009.8 | 5891.1 | 5853.7 | 5713.1 | 5480.3 | 5216.7 | 4929.0 |
| 20° | 6108.6 | 6139.2 | 6073.4 | 5935.0 | 5847.2 | 5766.0 | 5741.6 | 5623.1 | 5412.2 | 5153.0 | 4867.5 |
| 22.5° | 5801.1 | 5829.6 | 5803.2 | 5686.8 | 5673.6 | 5625.2 | 5612.2 | 5526.5 | 5352.9 | 5113.5 | 4830.1 |
| 25° | 5574.8 | 5601.1 | 5596.7 | 5495.7 | 5535.3 | 5533.0 | 5522.1 | 5480.3 | 5339.7 | 5113.5 | 4836.7 |
| 27.5° | 5513.3 | 5522.1 | 5513.3 | 5421.0 | 5475.9 | 5519.8 | 5511.1 | 5504.5 | 5379.3 | 5177.2 | 4920.1 |
| 30° | 5724.1 | 5711.0 | 5642.9 | 5456.1 | 5506.7 | 5568.1 | 5559.4 | 5563.8 | 5497.8 | 5344.1 | 5107.0 |
| 32.5° | 6565.4 | 6506.2 | 6290.8 | 5766.0 | 5631.8 | 5664.8 | 5669.3 | 5741.6 | 5752.7 | 5601.1 | 5396.8 |
| 35° | 7824.0 | 7758.1 | 7479.2 | 6596.2 | 6020.7 | 5906.4 | 5906.4 | 6016.3 | 6082.2 | 5970.1 | 5847.2 |
| 37.5° | 9157.3 | 9084.7 | 8935.4 | 7747.2 | 6837.8 | 6326.0 | 6315.1 | 6391.9 | 6486.3 | 6512.7 | 6543.4 |
| 40° | 10672.9 | 10596.0 | 10637.8 | 9038.7 | 7977.8 | 7053.0 | 6897.0 | 6842.2 | 7097.0 | 7266.1 | 7512.0 |
| 42.5° | 12331.3 | 12296.1 | 12311.5 | 10477.4 | 9275.9 | 8140.4 | 7918.5 | 7635.1 | 7942.6 | 8243.6 | 8759.7 |
| 45° | 13866.6 | 13897.4 | 13882.0 | 12017.2 | 10721.2 | 9467.0 | 9232.1 | 8682.8 | 8983.8 | 9499.9 | 10341.2 |
| 47.5° | 15210.9 | 15083.5 | 15281.2 | 13699.7 | 12340.0 | 10951.9 | 10662.0 | 9926.1 | 10231.3 | 10868.5 | 12291.8 |
| 50° | 16843.0 | 16825.3 | 16535.5 | 15944.6 | 14297.2 | 12443.3 | 12063.2 | 11211.0 | 11685.5 | 12570.7 | 14749.6 |
| 52.5° | 18558.4 | 18239.9 | 17974.1 | 17690.9 | 16372.9 | 13972.1 | 13506.5 | 12491.7 | 13394.4 | 14508.0 | 17745.7 |
| 55° | 18909.9 | 18767.1 | 19096.6 | 19573.2 | 18373.9 | 15560.1 | 15017.7 | 14097.3 | 15318.5 | 16722.0 | 21200.8 |
| 57.5° | 19661.1 | 19658.9 | 20339.9 | 21189.8 | 20434.3 | 17244.9 | 16698.0 | 16036.8 | 17482.2 | 19259.1 | 24868.9 |
| 60° | 20168.4 | 20311.2 | 21576.4 | 23225.9 | 22457.3 | 19191.0 | 18688.0 | 18275.1 | 19942.3 | 22094.8 | 28286.8 |
| 62.5° | 20434.3 | 20627.5 | 22354.1 | 24051.8 | 25317.1 | 22430.9 | 21927.8 | 21332.6 | 23197.6 | 25205.2 | 30285.6 |
| 65° | 19329.4 | 19709.4 | 22233.2 | 24765.8 | 27821.1 | 27682.8 | 27456.5 | 26411.0 | 27267.6 | 27662.9 | 29563.0 |
| 67.5° | 16271.8 | 16660.7 | 19599.6 | 24100.3 | 29609.2 | 32747.9 | 32796.3 | 31010.5 | 29771.6 | 27873.9 | 24855.8 |
| 70° | 11593.3 | 11898.6 | 14330.1 | 20205.8 | 28247.3 | 36058.1 | 36222.8 | 33130.1 | 29273.1 | 24719.6 | 17365.8 |
| 72.5° | 5504.5 | 5691.2 | 7993.2 | 13150.6 | 22415.4 | 33037.9 | 33356.4 | 30424.1 | 24891.0 | 18301.3 | 9473.5 |
| 75° | 2023.1 | 2080.1 | 2701.7 | 5594.6 | 13001.2 | 24363.8 | 24739.4 | 21809.3 | 16500.2 | 9111.1 | 3608.9 |
| 77.5° | 1212.5 | 1249.8 | 1515.6 | 2361.3 | 5113.5 | 13926.0 | 14481.7 | 11861.2 | 7211.1 | 3391.5 | 1774.8 |
| 80° | 847.9 | 874.2 | 1087.3 | 1469.4 | 2416.3 | 5306.7 | 5801.1 | 4841.1 | 2873.0 | 2146.1 | 1291.6 |
| 82.5° | 573.3 | 586.5 | 764.4 | 992.8 | 1605.7 | 1895.7 | 2044.9 | 2152.6 | 1937.4 | 1596.8 | 819.3 |
| 85° | 375.6 | 388.7 | 518.4 | 654.5 | 1021.5 | 979.6 | 1001.6 | 1267.4 | 1414.6 | 1085.2 | 454.7 |
| 87.5° | 215.2 | 224.0 | 311.9 | 349.3 | 500.9 | 415.1 | 419.6 | 667.7 | 905.0 | 731.4 | 276.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 | 5238.6 |
| 2.5° | 5219.0 | 5190.3 | 5126.6 | 5087.1 | 5049.8 | 5041.0 | 5025.7 | 5023.4 | 5021.3 | 5021.3 | 5014.7 |
| 5° | 5102.6 | 5054.3 | 4955.4 | 4900.4 | 4854.4 | 4849.9 | 4847.8 | 4858.8 | 4863.2 | 4867.5 | 4860.9 |
| 7.5° | 5027.9 | 4962.0 | 4838.9 | 4759.8 | 4705.0 | 4691.8 | 4713.8 | 4764.3 | 4797.2 | 4810.3 | 4803.7 |
| 10° | 4981.7 | 4900.4 | 4757.7 | 4672.1 | 4625.9 | 4619.3 | 4647.8 | 4707.2 | 4775.2 | 4801.6 | 4799.5 |
| 12.5° | 4929.0 | 4836.7 | 4685.2 | 4595.1 | 4568.8 | 4582.0 | 4619.3 | 4674.2 | 4744.5 | 4786.2 | 4788.4 |
| 15° | 4876.3 | 4768.7 | 4612.6 | 4533.7 | 4522.6 | 4540.3 | 4575.3 | 4617.1 | 4672.1 | 4713.8 | 4718.2 |
| 17.5° | 4812.6 | 4700.6 | 4544.6 | 4463.3 | 4454.5 | 4463.3 | 4465.6 | 4487.6 | 4522.6 | 4562.2 | 4573.1 |
| 20° | 4744.5 | 4630.3 | 4467.7 | 4386.5 | 4346.9 | 4311.8 | 4272.2 | 4276.7 | 4287.6 | 4327.1 | 4335.8 |
| 22.5° | 4696.2 | 4582.0 | 4408.4 | 4296.5 | 4191.0 | 4085.5 | 4006.4 | 3995.5 | 3999.9 | 4032.9 | 4043.8 |
| 25° | 4700.6 | 4579.7 | 4393.0 | 4199.8 | 3969.2 | 3800.0 | 3694.5 | 3677.0 | 3674.7 | 3699.0 | 3714.3 |
| 27.5° | 4786.2 | 4665.3 | 4450.2 | 4100.9 | 3727.4 | 3477.1 | 3365.1 | 3351.8 | 3334.2 | 3340.8 | 3358.5 |
| 30° | 4977.2 | 4865.3 | 4588.5 | 3999.9 | 3466.1 | 3160.7 | 3044.4 | 3031.2 | 3007.0 | 2996.0 | 3009.2 |
| 32.5° | 5289.2 | 5197.0 | 4790.7 | 3903.2 | 3204.8 | 2890.7 | 2772.0 | 2743.5 | 2728.2 | 2714.9 | 2725.8 |
| 35° | 5807.6 | 5768.0 | 5060.8 | 3797.8 | 2974.1 | 2682.0 | 2574.4 | 2530.3 | 2508.4 | 2532.6 | 2550.2 |
| 37.5° | 6620.2 | 6642.2 | 5414.4 | 3633.0 | 2796.2 | 2543.6 | 2453.5 | 2403.0 | 2370.1 | 2389.9 | 2409.6 |
| 40° | 7771.2 | 7786.7 | 5805.3 | 3400.3 | 2642.5 | 2462.3 | 2365.6 | 2319.6 | 2273.4 | 2238.2 | 2236.1 |
| 42.5° | 9282.5 | 9126.5 | 6189.9 | 3147.7 | 2464.5 | 2411.8 | 2304.2 | 2247.0 | 2176.8 | 2080.1 | 2060.4 |
| 45° | 11074.8 | 10528.0 | 6481.9 | 2857.7 | 2264.5 | 2350.2 | 2236.1 | 2157.0 | 2047.1 | 1941.7 | 1930.7 |
| 47.5° | 13139.6 | 12032.5 | 6624.7 | 2556.8 | 2077.9 | 2260.2 | 2152.6 | 2027.4 | 1889.0 | 1836.2 | 1829.7 |
| 50° | 15661.2 | 13818.3 | 6692.8 | 2264.5 | 1915.4 | 2141.6 | 2031.7 | 1884.6 | 1768.3 | 1757.3 | 1750.6 |
| 52.5° | 18532.0 | 15966.6 | 6714.8 | 2025.1 | 1781.3 | 1987.9 | 1933.0 | 1790.1 | 1697.8 | 1706.7 | 1706.7 |
| 55° | 21537.0 | 18185.0 | 6416.1 | 1851.6 | 1658.5 | 1829.7 | 1867.0 | 1752.9 | 1676.0 | 1711.1 | 1724.2 |
| 57.5° | 24295.6 | 20150.9 | 5475.9 | 1717.6 | 1542.0 | 1708.8 | 1843.0 | 1787.9 | 1735.3 | 1878.0 | 1886.8 |
| 60° | 26413.1 | 21312.8 | 4090.0 | 1596.8 | 1456.3 | 1667.2 | 1906.7 | 1922.0 | 1935.0 | 2275.5 | 2321.7 |
| 62.5° | 26856.8 | 20926.2 | 2811.5 | 1502.4 | 1416.7 | 1702.3 | 2023.1 | 2025.1 | 2009.8 | 2247.0 | 2275.5 |
| 65° | 24820.7 | 18481.5 | 2044.9 | 1449.8 | 1383.7 | 1766.0 | 2121.8 | 2075.8 | 1974.7 | 2154.8 | 2102.0 |
| 67.5° | 19711.6 | 13923.8 | 1702.3 | 1410.2 | 1335.5 | 1761.5 | 2227.3 | 2121.8 | 1954.9 | 2110.8 | 2025.1 |
| 70° | 12794.6 | 8419.3 | 1515.6 | 1377.2 | 1278.4 | 1678.2 | 2288.8 | 2117.5 | 1897.8 | 1963.7 | 1862.6 |
| 72.5° | 6242.5 | 3764.8 | 1390.3 | 1329.0 | 1219.1 | 1561.8 | 2286.5 | 2077.9 | 1838.6 | 1834.1 | 1779.3 |
| 75° | 2442.5 | 1724.2 | 1276.2 | 1256.4 | 1118.0 | 1429.9 | 2225.1 | 2020.7 | 1768.3 | 1697.8 | 1678.2 |
| 77.5° | 1429.9 | 1230.0 | 1131.2 | 1148.8 | 997.2 | 1298.1 | 2135.0 | 1922.0 | 1671.6 | 1588.1 | 1566.1 |
| 80° | 1041.1 | 920.4 | 964.3 | 992.8 | 852.2 | 1166.4 | 2014.2 | 1801.1 | 1563.9 | 1605.7 | 1574.9 |
| 82.5° | 667.7 | 593.2 | 782.0 | 810.5 | 709.5 | 1032.3 | 1882.4 | 1673.7 | 1412.3 | 1282.8 | 1252.0 |
| 85° | 340.5 | 375.6 | 582.1 | 617.2 | 547.0 | 847.9 | 1722.1 | 1504.7 | 1241.1 | 1067.5 | 1085.2 |
| 87.5° | 191.1 | 256.9 | 371.2 | 415.1 | 386.6 | 652.3 | 1397.0 | 1241.1 | 1012.6 | 823.7 | 724.8 |
| 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)