

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: P194016

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194016
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-08-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26224 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

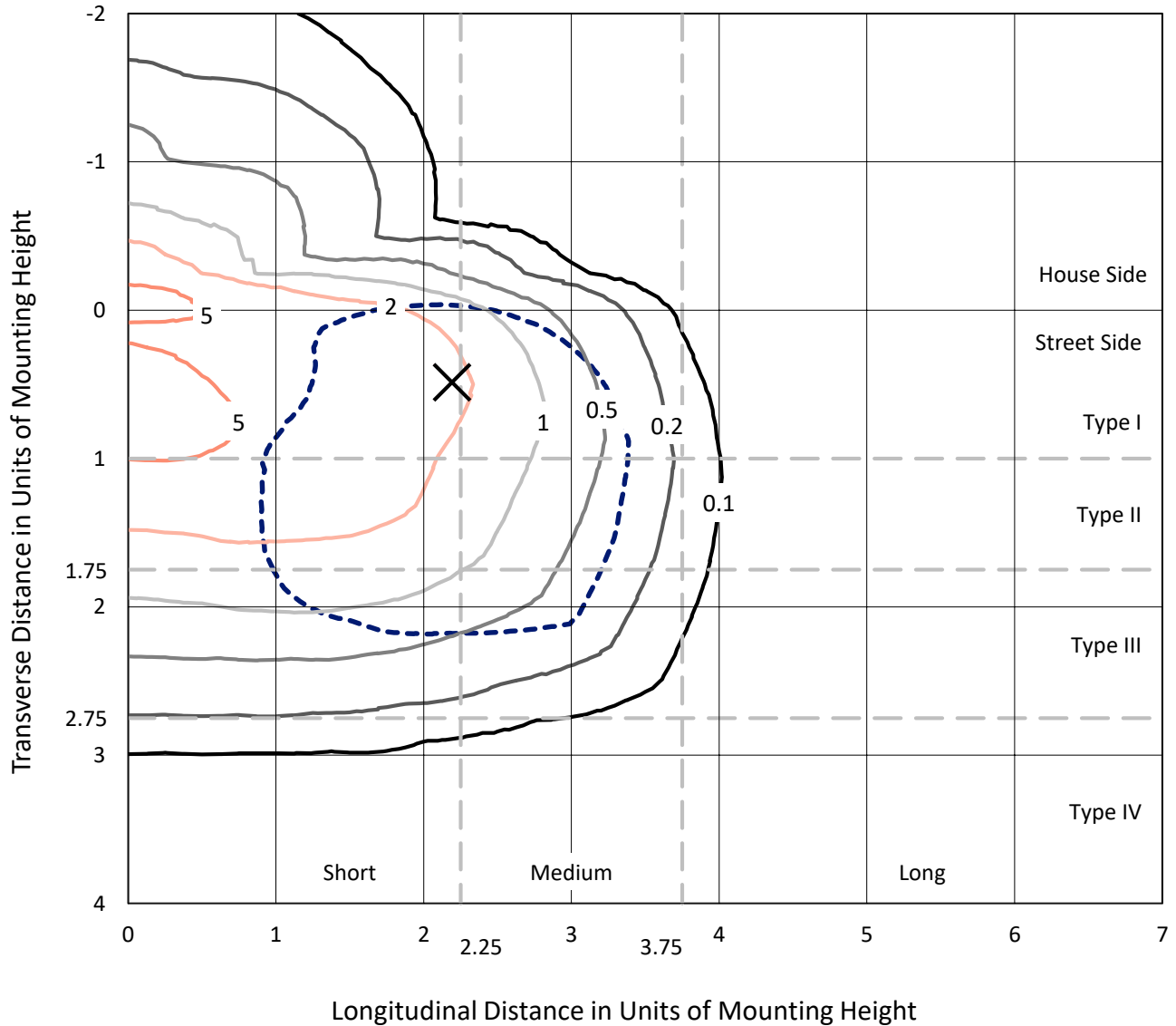


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

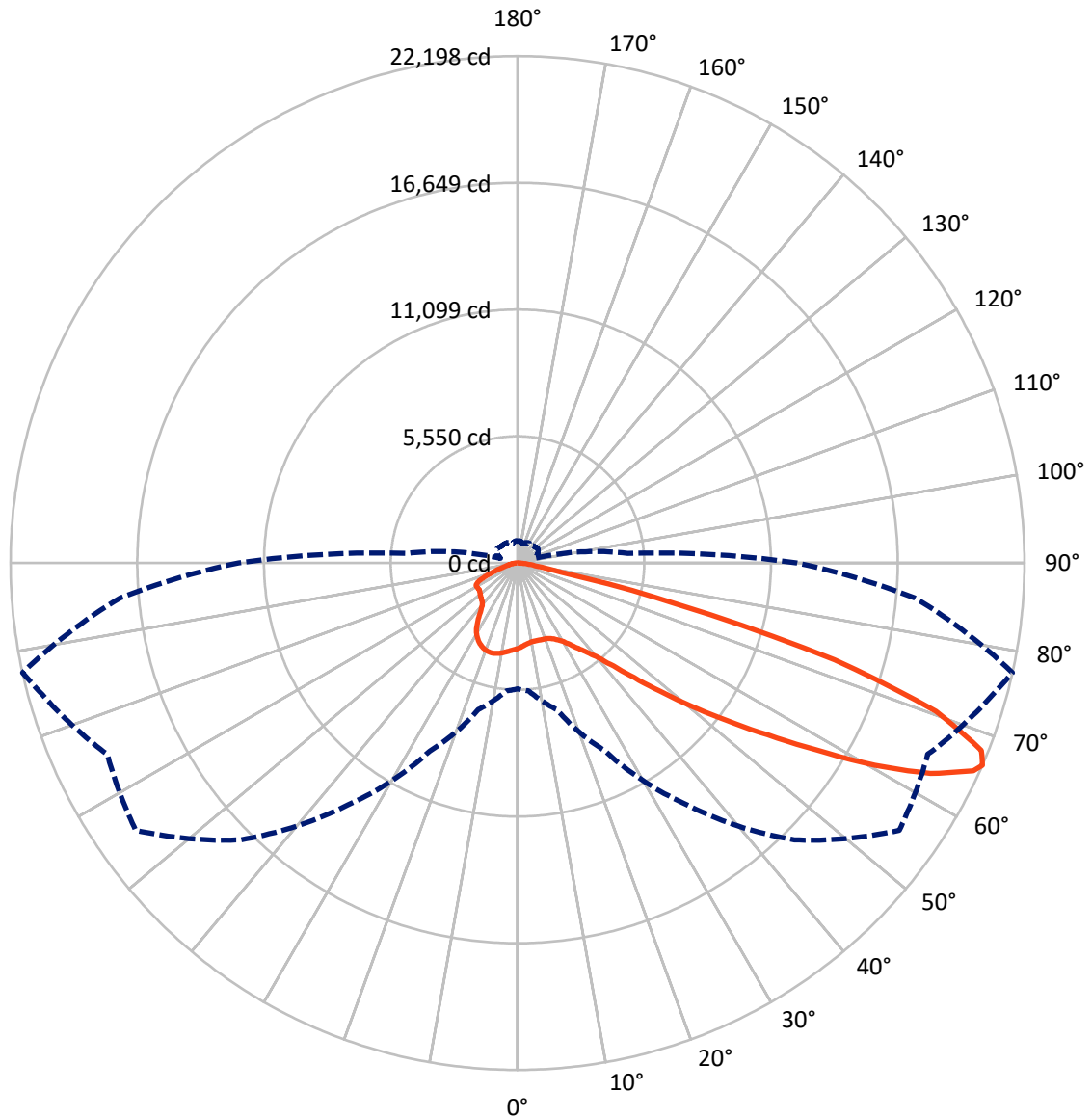


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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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 | 4480.2 | 0.0 | 4480.2 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 21743.8 | 0.0 | 21743.8 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 26224.0 | 0.0 | 26224.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 333.9 | 1.3 |
| 10°-20° | 941.9 | 3.6 |
| 20°-30° | 1607.5 | 6.1 |
| 30°-40° | 2573.4 | 9.8 |
| 40°-50° | 3975.6 | 15.2 |
| 50°-60° | 5638.8 | 21.5 |
| 60°-70° | 7543.1 | 28.8 |
| 70°-80° | 3275.8 | 12.5 |
| 80°-90° | 334.0 | 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° | 26224.0 | 100.0 |
| 0°-180° | 26224.0 | 100.0 |



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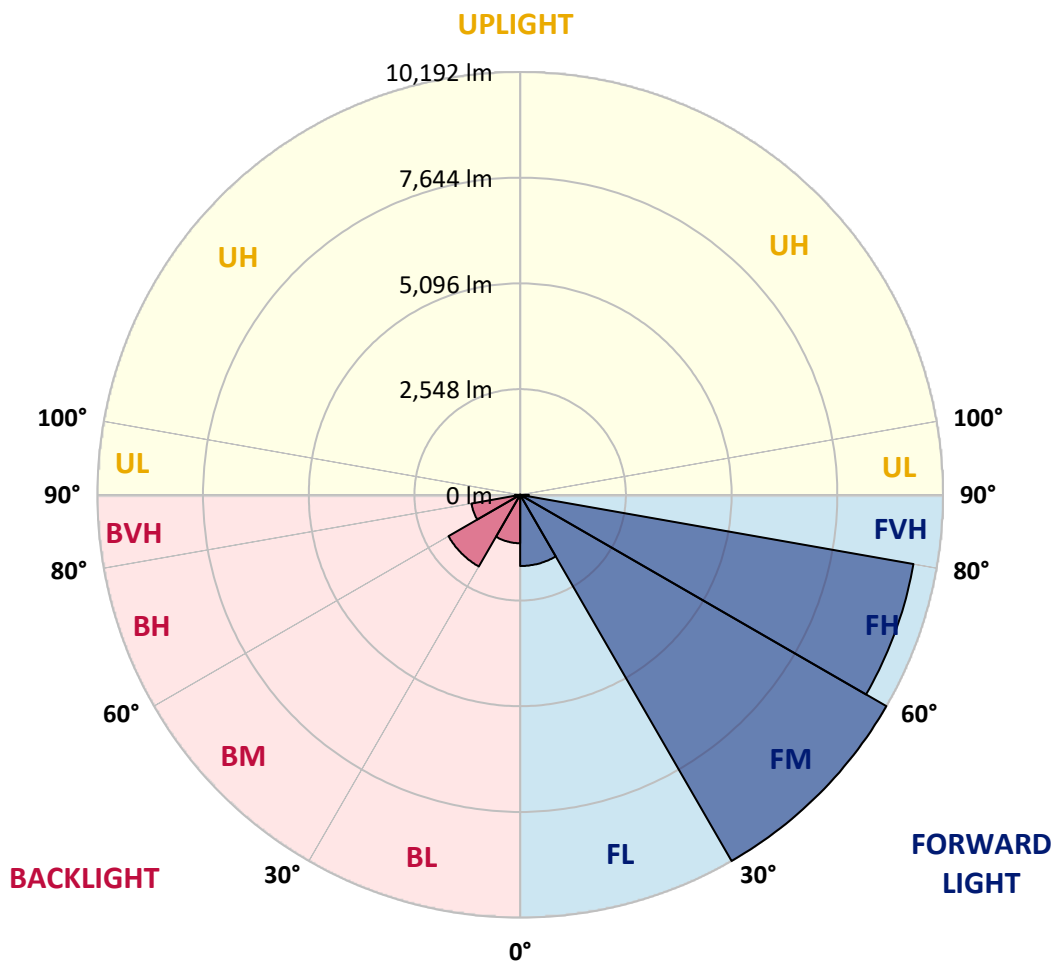
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1716.5 | 6.5 | | | |
| FM (30°-60°) | 10192.0 | 38.9 | | | |
| FH (60°-80°) | 9625.8 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 209.5 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1166.8 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 1995.7 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1193.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 124.5 | 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° | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 |
| 2.5° | 3305.8 | 3328.2 | 3346.7 | 3364.1 | 3398.8 | 3455.8 | 3521.4 | 3574.7 | 3651.5 | 3666.4 | 3707.3 |
| 5° | 3002.3 | 3002.3 | 3017.1 | 3043.2 | 3090.2 | 3175.7 | 3265.0 | 3383.9 | 3551.2 | 3590.8 | 3699.9 |
| 7.5° | 2854.8 | 2856.1 | 2864.7 | 2887.0 | 2927.9 | 3006.0 | 3103.9 | 3243.9 | 3470.6 | 3536.3 | 3722.2 |
| 10° | 2909.3 | 2897.0 | 2878.4 | 2867.2 | 2873.4 | 2919.3 | 3012.2 | 3168.3 | 3421.1 | 3505.3 | 3771.7 |
| 12.5° | 3214.2 | 3190.6 | 3126.2 | 3040.7 | 2958.9 | 2925.5 | 2980.0 | 3132.4 | 3400.0 | 3497.9 | 3837.4 |
| 15° | 3712.3 | 3702.4 | 3582.2 | 3405.0 | 3206.7 | 3040.7 | 3003.5 | 3118.7 | 3402.5 | 3506.6 | 3915.5 |
| 17.5° | 4336.8 | 4323.1 | 4164.5 | 3906.8 | 3583.4 | 3260.0 | 3086.5 | 3129.9 | 3411.2 | 3521.4 | 3991.1 |
| 20° | 4967.4 | 4925.3 | 4754.3 | 4447.0 | 4031.9 | 3558.6 | 3224.1 | 3158.4 | 3422.3 | 3537.6 | 4070.4 |
| 22.5° | 5438.3 | 5403.6 | 5250.0 | 4951.3 | 4473.1 | 3904.3 | 3408.7 | 3208.0 | 3458.3 | 3584.6 | 4168.2 |
| 25° | 5852.1 | 5854.6 | 5702.2 | 5413.5 | 4919.1 | 4271.1 | 3646.6 | 3340.5 | 3549.9 | 3681.3 | 4302.1 |
| 27.5° | 6363.9 | 6334.1 | 6191.6 | 5905.4 | 5360.2 | 4641.6 | 3934.1 | 3522.7 | 3686.2 | 3818.8 | 4478.0 |
| 30° | 6976.0 | 6954.9 | 6790.1 | 6465.5 | 5849.7 | 5039.3 | 4262.4 | 3734.6 | 3862.2 | 3999.7 | 4708.5 |
| 32.5° | 7695.9 | 7686.0 | 7515.0 | 7097.4 | 6414.7 | 5507.7 | 4647.8 | 4014.6 | 4124.9 | 4267.4 | 5039.3 |
| 35° | 8540.9 | 8542.2 | 8340.2 | 7838.4 | 7033.0 | 6052.9 | 5085.2 | 4375.2 | 4444.6 | 4593.2 | 5433.3 |
| 37.5° | 9061.3 | 9124.5 | 9049.0 | 8537.2 | 7733.1 | 6662.5 | 5652.7 | 4853.4 | 4808.8 | 4958.8 | 5855.9 |
| 40° | 9172.9 | 9249.7 | 9488.8 | 9228.6 | 8516.1 | 7334.1 | 6155.7 | 5313.1 | 5257.4 | 5440.8 | 6399.8 |
| 42.5° | 9016.7 | 9123.3 | 9628.8 | 9812.2 | 9347.6 | 8161.8 | 6832.2 | 5995.9 | 5925.2 | 6171.8 | 7076.3 |
| 45° | 8923.8 | 9003.1 | 9587.9 | 10115.8 | 10068.7 | 9097.3 | 7693.4 | 6853.3 | 6827.3 | 7150.7 | 7857.0 |
| 47.5° | 8762.7 | 8834.6 | 9397.1 | 10186.4 | 10492.5 | 9954.7 | 8728.0 | 7901.6 | 7952.4 | 8376.1 | 8737.9 |
| 50° | 8849.5 | 8879.2 | 9184.0 | 10006.8 | 10615.1 | 10582.9 | 9884.1 | 9115.9 | 9289.3 | 9818.4 | 9735.4 |
| 52.5° | 8837.1 | 8913.9 | 9159.2 | 9711.9 | 10631.2 | 10970.8 | 11022.8 | 10470.2 | 10835.7 | 11442.8 | 10841.9 |
| 55° | 7144.5 | 7285.8 | 8868.0 | 9637.5 | 10688.2 | 11351.1 | 12036.4 | 11897.6 | 12579.1 | 13286.6 | 12090.9 |
| 57.5° | 6822.3 | 6911.6 | 7788.8 | 9793.6 | 10990.6 | 12077.2 | 13163.9 | 13468.7 | 14608.7 | 15430.2 | 13612.5 |
| 60° | 6759.1 | 6869.4 | 7777.7 | 9984.5 | 11603.9 | 13260.6 | 14835.4 | 15370.7 | 17078.1 | 17977.7 | 15376.9 |
| 62.5° | 6562.1 | 6681.1 | 7704.6 | 9959.7 | 12475.0 | 14897.4 | 16975.3 | 17392.9 | 19420.0 | 20294.8 | 16852.6 |
| 65° | 5937.6 | 6049.2 | 7108.6 | 9559.4 | 13062.3 | 16644.5 | 19508.0 | 19246.5 | 21268.7 | 21926.6 | 17588.6 |
| 66° | 5510.2 | 5619.2 | 6639.0 | 9088.6 | 12926.0 | 17140.1 | 20405.1 | 19820.2 | 21682.5 | 22198.0 | 17444.9 |
| 67.5° | 4728.3 | 4813.8 | 5727.0 | 8034.2 | 12201.2 | 17278.9 | 21159.7 | 20251.4 | 21725.9 | 21908.1 | 16623.4 |
| 70° | 2987.4 | 3012.2 | 3722.2 | 5546.1 | 9236.1 | 14985.4 | 20011.0 | 19180.9 | 19934.2 | 19441.1 | 13935.9 |
| 72.5° | 1296.1 | 1287.4 | 1786.7 | 2821.4 | 5228.9 | 10055.1 | 16187.3 | 15826.7 | 15637.1 | 14512.0 | 9755.2 |
| 75° | 721.1 | 731.1 | 928.1 | 1309.7 | 2125.0 | 4938.9 | 10589.1 | 10133.1 | 8555.8 | 7300.6 | 4423.5 |
| 77.5° | 578.6 | 592.3 | 769.5 | 929.3 | 954.1 | 1722.3 | 4955.1 | 4031.9 | 2427.3 | 1947.8 | 1229.2 |
| 80° | 457.2 | 482.0 | 671.6 | 723.6 | 643.1 | 710.0 | 1600.9 | 1280.0 | 960.3 | 881.0 | 636.9 |
| 82.5° | 361.8 | 379.2 | 576.2 | 547.7 | 449.8 | 478.3 | 767.0 | 747.2 | 624.5 | 568.7 | 368.0 |
| 85° | 260.2 | 292.4 | 473.3 | 412.6 | 294.9 | 322.2 | 509.3 | 488.2 | 358.1 | 292.4 | 162.3 |
| 87.5° | 106.6 | 138.8 | 334.5 | 273.8 | 164.8 | 149.9 | 254.0 | 239.1 | 169.8 | 123.9 | 80.5 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 | 3737.0 |
| 2.5° | 3733.3 | 3763.1 | 3801.5 | 3825.0 | 3837.4 | 3846.1 | 3859.7 | 3858.5 | 3862.2 | 3863.4 | 3868.4 |
| 5° | 3758.1 | 3807.7 | 3863.4 | 3878.3 | 3878.3 | 3864.7 | 3851.0 | 3828.7 | 3820.1 | 3817.6 | 3820.1 |
| 7.5° | 3822.5 | 3877.1 | 3925.4 | 3908.0 | 3870.9 | 3816.3 | 3745.7 | 3683.8 | 3650.3 | 3639.2 | 3636.7 |
| 10° | 3904.3 | 3970.0 | 3989.8 | 3924.1 | 3815.1 | 3683.8 | 3543.7 | 3442.1 | 3383.9 | 3367.8 | 3362.8 |
| 12.5° | 4003.4 | 4065.4 | 4038.1 | 3899.4 | 3697.4 | 3485.5 | 3292.2 | 3129.9 | 3008.5 | 2970.1 | 2967.6 |
| 15° | 4112.5 | 4160.8 | 4065.4 | 3822.5 | 3521.4 | 3209.2 | 2864.7 | 2584.7 | 2433.5 | 2385.2 | 2381.5 |
| 17.5° | 4214.1 | 4238.9 | 4049.3 | 3688.7 | 3262.5 | 2756.9 | 2299.7 | 2084.1 | 2032.1 | 2044.5 | 2046.9 |
| 20° | 4300.8 | 4300.8 | 3994.8 | 3496.7 | 2854.8 | 2160.9 | 1872.2 | 1868.5 | 1905.7 | 1942.9 | 1950.3 |
| 22.5° | 4396.2 | 4339.2 | 3899.4 | 3225.3 | 2277.4 | 1768.2 | 1726.0 | 1760.7 | 1802.9 | 1843.7 | 1849.9 |
| 25° | 4513.9 | 4370.2 | 3766.8 | 2813.9 | 1790.5 | 1605.8 | 1621.9 | 1650.4 | 1671.5 | 1697.5 | 1701.2 |
| 27.5° | 4645.3 | 4409.9 | 3592.1 | 2247.7 | 1553.8 | 1504.2 | 1516.6 | 1526.5 | 1524.1 | 1534.0 | 1536.5 |
| 30° | 4802.6 | 4455.7 | 3352.9 | 1757.0 | 1455.9 | 1417.5 | 1395.2 | 1386.5 | 1386.5 | 1402.6 | 1408.8 |
| 32.5° | 5013.3 | 4523.9 | 3009.7 | 1505.5 | 1408.8 | 1355.5 | 1283.7 | 1251.5 | 1263.9 | 1318.4 | 1330.8 |
| 35° | 5245.0 | 4597.0 | 2545.1 | 1420.0 | 1398.9 | 1327.0 | 1215.5 | 1156.1 | 1157.3 | 1208.1 | 1224.2 |
| 37.5° | 5497.8 | 4689.9 | 2035.8 | 1403.9 | 1421.2 | 1328.3 | 1179.6 | 1097.8 | 1064.4 | 1064.4 | 1070.6 |
| 40° | 5821.2 | 4785.3 | 1648.0 | 1415.0 | 1468.3 | 1343.2 | 1161.0 | 1052.0 | 957.8 | 960.3 | 965.2 |
| 42.5° | 6242.5 | 4867.1 | 1439.8 | 1438.6 | 1525.3 | 1363.0 | 1159.8 | 991.3 | 909.5 | 965.2 | 1016.0 |
| 45° | 6710.8 | 4908.0 | 1348.1 | 1459.6 | 1571.1 | 1375.4 | 1139.9 | 981.3 | 915.7 | 1081.7 | 1178.4 |
| 47.5° | 7249.8 | 4884.4 | 1297.3 | 1467.1 | 1582.3 | 1375.4 | 1117.6 | 1004.9 | 959.0 | 1252.7 | 1365.5 |
| 50° | 7840.9 | 4816.3 | 1247.7 | 1452.2 | 1578.6 | 1372.9 | 1138.7 | 1028.4 | 975.2 | 1282.4 | 1360.5 |
| 52.5° | 8536.0 | 4759.3 | 1195.7 | 1420.0 | 1552.6 | 1359.3 | 1163.5 | 1018.5 | 924.3 | 1166.0 | 1220.5 |
| 55° | 9329.0 | 4775.4 | 1137.5 | 1374.1 | 1511.7 | 1333.2 | 1154.8 | 978.9 | 871.1 | 1027.2 | 1060.6 |
| 57.5° | 10342.5 | 4967.4 | 1068.1 | 1315.9 | 1455.9 | 1289.9 | 1123.8 | 960.3 | 855.0 | 931.8 | 951.6 |
| 60° | 11473.8 | 5302.0 | 981.3 | 1257.7 | 1386.5 | 1220.5 | 1100.3 | 969.0 | 862.4 | 924.3 | 934.3 |
| 62.5° | 12304.0 | 5496.5 | 907.0 | 1172.2 | 1292.4 | 1143.7 | 1070.6 | 980.1 | 882.2 | 950.4 | 947.9 |
| 65° | 12529.5 | 5176.8 | 814.1 | 1047.0 | 1164.7 | 1063.1 | 1033.4 | 992.5 | 890.9 | 971.4 | 960.3 |
| 66° | 12213.5 | 4832.4 | 773.2 | 988.8 | 1100.3 | 1023.5 | 1014.8 | 991.3 | 887.2 | 973.9 | 955.3 |
| 67.5° | 11446.6 | 4126.1 | 702.6 | 903.3 | 997.5 | 964.0 | 985.1 | 980.1 | 877.3 | 971.4 | 945.4 |
| 70° | 9335.2 | 2815.2 | 601.0 | 752.1 | 830.2 | 848.8 | 928.1 | 940.5 | 845.0 | 928.1 | 871.1 |
| 72.5° | 6522.5 | 1714.9 | 531.6 | 583.6 | 671.6 | 723.6 | 850.0 | 885.9 | 801.7 | 810.4 | 755.8 |
| 75° | 3152.2 | 910.7 | 482.0 | 452.3 | 521.6 | 604.7 | 755.8 | 811.6 | 733.5 | 677.8 | 657.9 |
| 77.5° | 982.6 | 556.3 | 408.9 | 364.3 | 408.9 | 488.2 | 631.9 | 711.2 | 653.0 | 567.5 | 560.1 |
| 80° | 527.8 | 408.9 | 314.7 | 292.4 | 323.4 | 382.9 | 496.9 | 593.5 | 561.3 | 509.3 | 454.7 |
| 82.5° | 348.2 | 265.2 | 232.9 | 226.8 | 246.6 | 292.4 | 369.2 | 491.9 | 491.9 | 436.2 | 317.2 |
| 85° | 179.7 | 162.3 | 159.8 | 159.8 | 172.2 | 194.5 | 251.5 | 379.2 | 403.9 | 230.5 | 190.8 |
| 87.5° | 89.2 | 92.9 | 86.7 | 90.5 | 96.6 | 95.4 | 120.2 | 190.8 | 228.0 | 140.0 | 116.5 |
| 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)