

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: P319482

Luminaire Tested: **GLEON-SA8B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32983 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

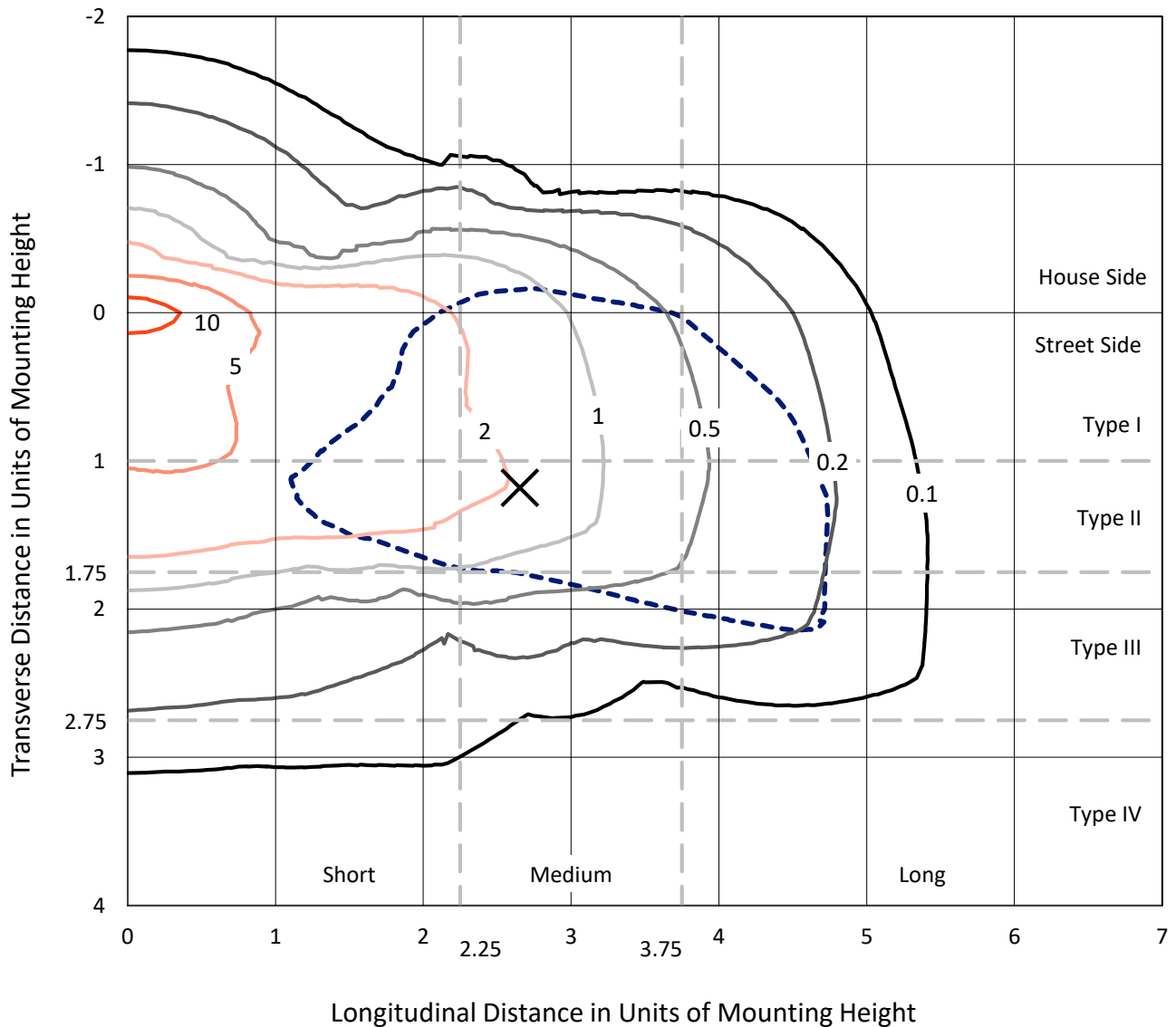
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

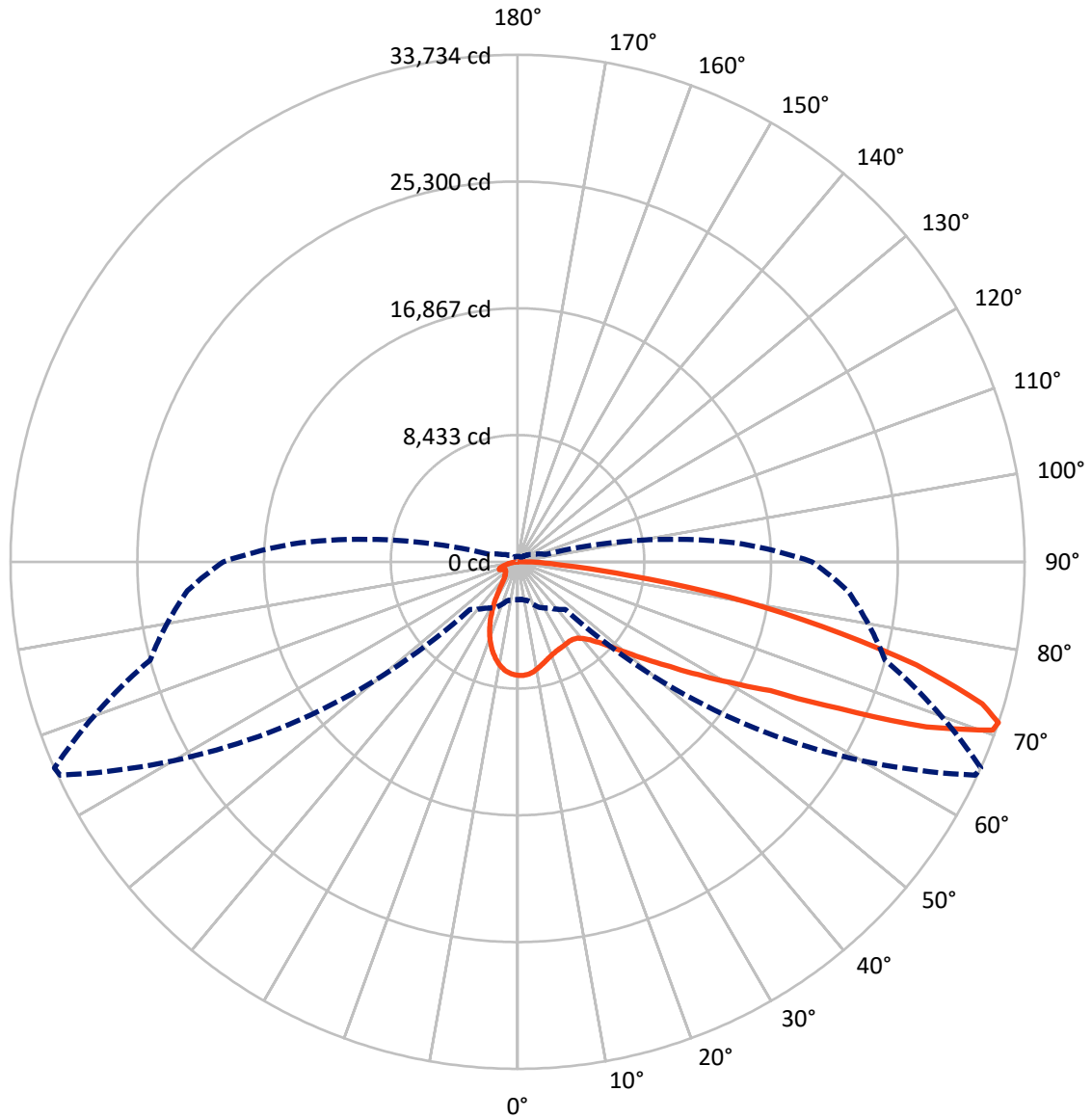
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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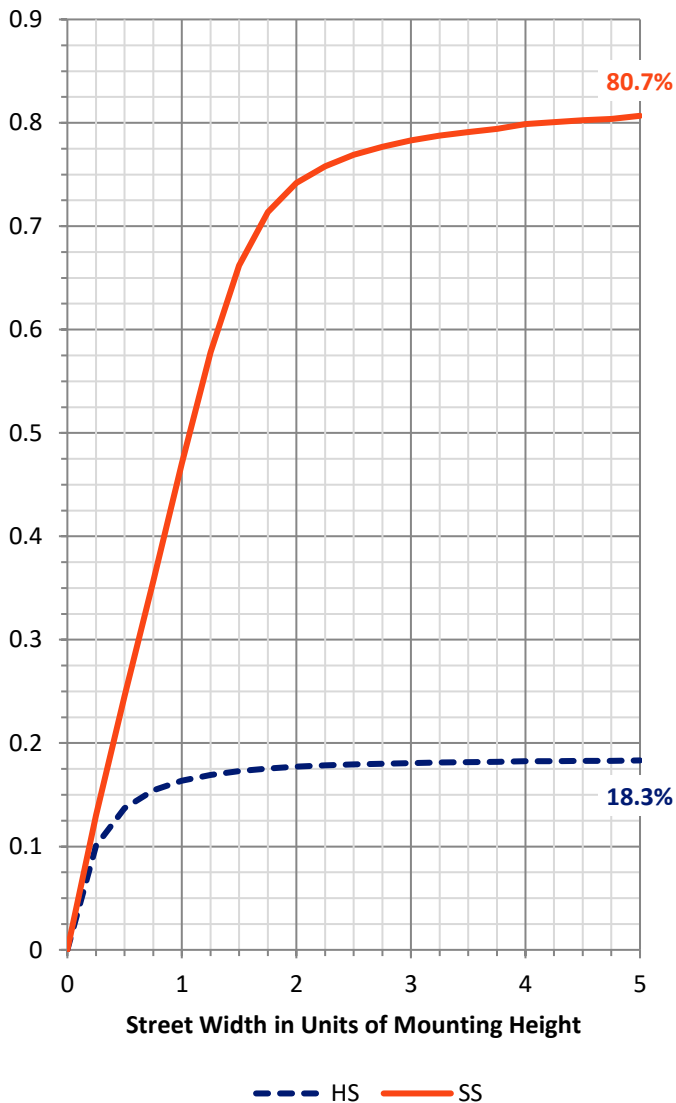
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6112.7 | 0.0 | 6112.7 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 26870.3 | 0.0 | 26870.3 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 32983.0 | 0.0 | 32983.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 665.1 | 2.0 |
| 10°-20° | 1595.2 | 4.8 |
| 20°-30° | 2142.7 | 6.5 |
| 30°-40° | 2818.7 | 8.5 |
| 40°-50° | 4100.5 | 12.4 |
| 50°-60° | 6405.4 | 19.4 |
| 60°-70° | 8023.8 | 24.3 |
| 70°-80° | 6120.3 | 18.6 |
| 80°-90° | 1111.4 | 3.4 |
| 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° | 32983.0 | 100.0 |
| 0°-180° | 32983.0 | 100.0 |

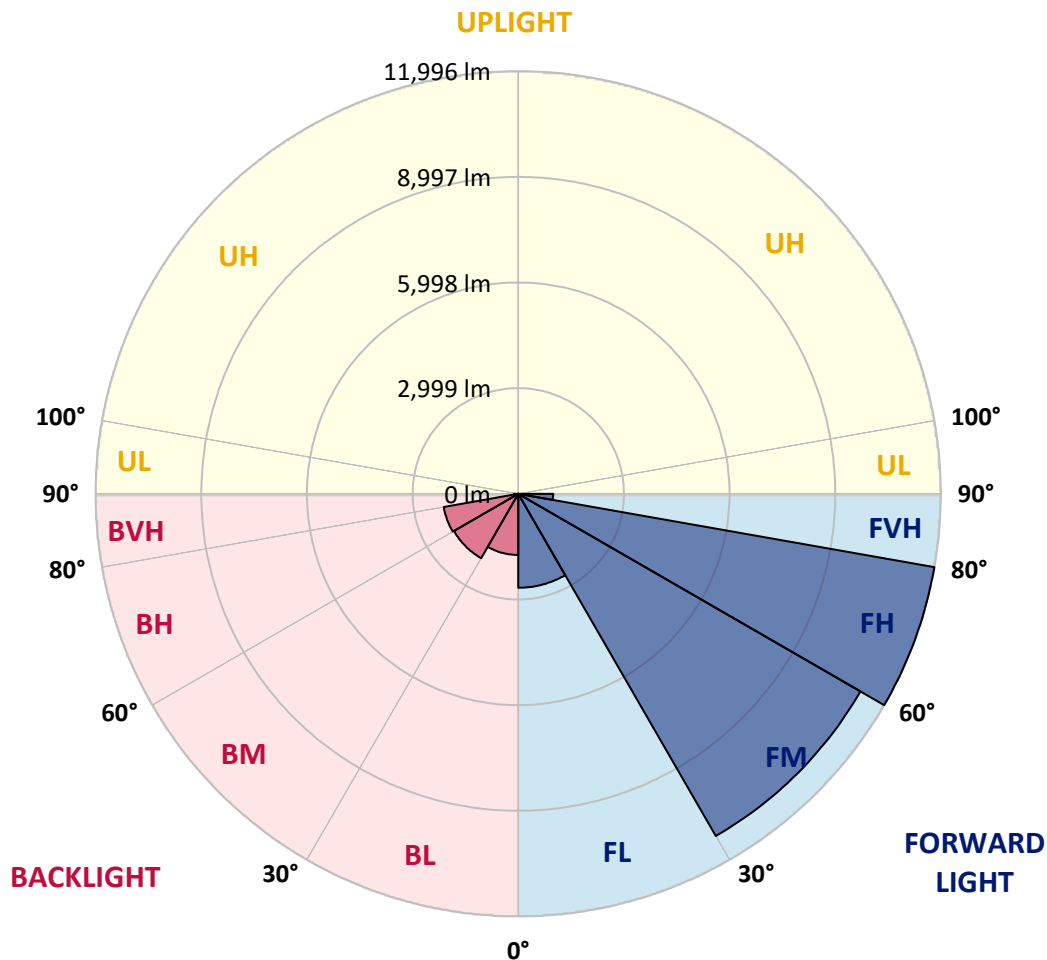


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2667.1 | 8.1 | | | |
| FM (30°-60°) | 11215.9 | 34.0 | | | |
| FH (60°-80°) | 11996.3 | 36.4 | | | G4/12000 |
| FVH (80°-90°) | 991.1 | 3.0 | | | G5 |
| BL (0°-30°) | 1735.8 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2108.7 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 2147.8 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 120.3 | 0.4 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 |
| 2.5° | 7415.7 | 7404.3 | 7438.5 | 7473.8 | 7487.4 | 7510.2 | 7544.4 | 7563.7 | 7562.6 | 7566.0 | 7554.6 |
| 5° | 6923.7 | 6908.9 | 6977.3 | 7033.1 | 7140.1 | 7260.8 | 7407.7 | 7512.5 | 7514.8 | 7574.0 | 7589.9 |
| 7.5° | 6458.0 | 6447.7 | 6526.3 | 6616.3 | 6740.4 | 6924.9 | 7162.9 | 7388.4 | 7402.0 | 7562.6 | 7618.4 |
| 10° | 6084.5 | 6082.2 | 6158.5 | 6256.4 | 6401.0 | 6607.2 | 6880.5 | 7210.7 | 7231.2 | 7507.9 | 7623.0 |
| 12.5° | 5792.9 | 5797.5 | 5863.5 | 5975.1 | 6127.7 | 6343.0 | 6639.1 | 7011.4 | 7044.5 | 7421.4 | 7596.8 |
| 15° | 5577.7 | 5595.9 | 5649.5 | 5762.2 | 5912.5 | 6131.2 | 6435.2 | 6827.0 | 6877.1 | 7324.6 | 7582.0 |
| 17.5° | 5454.7 | 5475.2 | 5512.8 | 5606.2 | 5747.4 | 5958.1 | 6246.2 | 6675.5 | 6721.0 | 7250.6 | 7583.1 |
| 20° | 5418.3 | 5435.4 | 5457.0 | 5513.9 | 5633.5 | 5824.8 | 6097.0 | 6538.8 | 6587.8 | 7191.4 | 7594.5 |
| 22.5° | 5490.0 | 5502.6 | 5504.8 | 5500.3 | 5573.2 | 5729.2 | 5988.8 | 6438.6 | 6491.0 | 7152.6 | 7602.5 |
| 25° | 5643.8 | 5660.8 | 5648.3 | 5606.2 | 5582.3 | 5677.9 | 5933.0 | 6372.6 | 6425.0 | 7124.2 | 7586.5 |
| 27.5° | 5874.9 | 5877.2 | 5867.0 | 5812.3 | 5699.6 | 5683.6 | 5915.9 | 6333.9 | 6384.0 | 7091.1 | 7553.5 |
| 30° | 6189.2 | 6204.0 | 6185.8 | 6111.8 | 5927.3 | 5774.7 | 5936.4 | 6296.3 | 6341.8 | 7049.0 | 7500.0 |
| 32.5° | 6557.1 | 6593.5 | 6592.4 | 6514.9 | 6250.7 | 5978.6 | 6020.7 | 6273.5 | 6308.8 | 7004.6 | 7435.1 |
| 35° | 6938.6 | 6988.7 | 7082.0 | 7049.0 | 6722.2 | 6300.8 | 6182.4 | 6309.9 | 6333.9 | 6998.9 | 7389.5 |
| 37.5° | 7334.8 | 7385.0 | 7577.4 | 7666.2 | 7283.6 | 6762.0 | 6437.5 | 6438.6 | 6450.0 | 7068.4 | 7386.1 |
| 40° | 7749.4 | 7802.9 | 8092.1 | 8323.3 | 8011.3 | 7346.2 | 6848.6 | 6707.4 | 6694.9 | 7239.2 | 7453.3 |
| 42.5° | 8330.1 | 8378.0 | 8725.3 | 9020.2 | 8818.7 | 8094.4 | 7416.8 | 7121.9 | 7095.7 | 7574.0 | 7668.5 |
| 45° | 9064.6 | 9105.6 | 9474.6 | 9790.0 | 9686.4 | 8948.5 | 8130.8 | 7692.4 | 7687.9 | 8132.0 | 8104.7 |
| 47.5° | 9938.1 | 9970.0 | 10301.4 | 10606.5 | 10644.1 | 9931.2 | 9028.2 | 8572.7 | 8498.7 | 8897.2 | 8779.9 |
| 50° | 10848.0 | 10883.3 | 11108.7 | 11436.7 | 11715.7 | 11246.5 | 10182.9 | 9651.1 | 9552.0 | 9907.3 | 9736.5 |
| 52.5° | 11450.4 | 11497.1 | 11692.9 | 12108.6 | 12920.5 | 12688.2 | 11548.3 | 10958.4 | 10808.1 | 11131.5 | 11000.6 |
| 55° | 11181.6 | 11286.4 | 11585.9 | 12252.1 | 13883.9 | 14890.6 | 13232.6 | 12483.2 | 12313.6 | 12582.3 | 12504.9 |
| 57.5° | 9959.7 | 10103.2 | 10512.0 | 11540.3 | 14019.4 | 16831.1 | 15778.9 | 14279.1 | 14159.5 | 14082.1 | 14117.4 |
| 60° | 7726.6 | 7864.4 | 8371.1 | 9711.5 | 13075.4 | 18247.7 | 19610.8 | 16492.9 | 16319.8 | 15587.5 | 15619.4 |
| 62.5° | 5468.4 | 5398.9 | 5746.3 | 6726.7 | 10624.8 | 18414.0 | 23971.2 | 19453.7 | 18884.3 | 17177.3 | 17037.2 |
| 65° | 4170.2 | 4154.2 | 4310.3 | 4622.3 | 6435.2 | 16424.5 | 26568.7 | 24430.1 | 23540.7 | 19047.1 | 18716.9 |
| 67.5° | 3426.6 | 3398.1 | 3551.8 | 4006.2 | 4144.0 | 10596.3 | 26625.7 | 30203.7 | 29330.3 | 21374.8 | 20659.6 |
| 70° | 2817.3 | 2785.4 | 2928.9 | 3515.4 | 3829.7 | 5373.9 | 22408.8 | 33584.7 | 33538.0 | 24321.9 | 22126.4 |
| 71° | 2525.8 | 2503.0 | 2675.0 | 3326.4 | 3762.5 | 4478.8 | 19347.8 | 33593.8 | 33733.9 | 25319.5 | 22039.8 |
| 72.5° | 2056.6 | 2064.6 | 2246.8 | 2960.8 | 3712.4 | 3955.0 | 14219.9 | 32028.0 | 32324.1 | 26270.4 | 21252.9 |
| 75° | 1366.5 | 1373.4 | 1612.5 | 2277.5 | 3599.7 | 3869.6 | 7815.4 | 26875.1 | 27419.4 | 25701.0 | 19393.3 |
| 77.5° | 917.9 | 915.6 | 1078.4 | 1562.4 | 3136.2 | 3869.6 | 4582.4 | 20100.5 | 20698.4 | 20450.1 | 14951.0 |
| 80° | 632.0 | 627.5 | 742.5 | 1078.4 | 2374.3 | 3916.2 | 3542.7 | 14086.6 | 14267.7 | 11043.8 | 6076.5 |
| 82.5° | 387.2 | 390.6 | 485.1 | 761.8 | 1615.9 | 3524.5 | 3344.6 | 7681.0 | 7484.0 | 3097.5 | 1518.0 |
| 85° | 222.1 | 220.9 | 309.7 | 515.9 | 1037.4 | 2974.5 | 3261.4 | 3305.9 | 3032.6 | 932.7 | 548.9 |
| 87.5° | 79.7 | 85.4 | 166.3 | 285.8 | 594.4 | 2071.4 | 2767.2 | 1719.5 | 1549.9 | 421.3 | 248.3 |
| 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° | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 | 7555.8 |
| 2.5° | 7546.7 | 7553.5 | 7545.5 | 7500.0 | 7461.2 | 7398.6 | 7363.3 | 7314.3 | 7299.5 | 7292.7 | 7310.9 |
| 5° | 7575.1 | 7577.4 | 7510.2 | 7390.6 | 7256.3 | 7098.0 | 6984.1 | 6844.0 | 6778.0 | 6749.5 | 6767.7 |
| 7.5° | 7601.3 | 7591.1 | 7444.2 | 7215.3 | 6967.0 | 6691.4 | 6446.6 | 6222.3 | 6091.3 | 6037.8 | 6042.3 |
| 10° | 7604.7 | 7561.5 | 7325.7 | 6971.6 | 6586.7 | 6182.4 | 5806.6 | 5460.4 | 5241.8 | 5099.4 | 5142.7 |
| 12.5° | 7569.4 | 7496.6 | 7151.5 | 6656.1 | 6122.1 | 5570.9 | 5063.0 | 4543.7 | 4231.7 | 4087.1 | 4091.6 |
| 15° | 7542.1 | 7410.0 | 6937.4 | 6284.9 | 5567.5 | 4837.5 | 4144.0 | 3533.6 | 3201.1 | 3053.1 | 2983.6 |
| 17.5° | 7519.3 | 7316.6 | 6689.2 | 5867.0 | 4912.7 | 3986.8 | 3153.3 | 2608.9 | 2426.7 | 2383.5 | 2365.2 |
| 20° | 7487.4 | 7217.6 | 6412.4 | 5383.0 | 4166.8 | 3034.8 | 2302.6 | 2033.9 | 2035.0 | 2085.1 | 2091.9 |
| 22.5° | 7443.0 | 7104.8 | 6117.5 | 4839.8 | 3366.2 | 2210.4 | 1805.0 | 1727.5 | 1806.1 | 1901.8 | 1918.8 |
| 25° | 7377.0 | 6971.6 | 5789.5 | 4239.7 | 2566.8 | 1699.1 | 1541.9 | 1538.5 | 1634.1 | 1734.4 | 1749.2 |
| 27.5° | 7283.6 | 6797.3 | 5425.1 | 3595.1 | 1891.5 | 1444.0 | 1381.3 | 1405.2 | 1475.9 | 1548.7 | 1554.4 |
| 30° | 7158.3 | 6594.6 | 5023.1 | 2915.3 | 1482.7 | 1285.7 | 1278.8 | 1300.5 | 1343.8 | 1395.0 | 1399.6 |
| 32.5° | 7020.5 | 6388.5 | 4593.8 | 2257.1 | 1269.7 | 1200.3 | 1207.1 | 1217.3 | 1237.8 | 1258.3 | 1262.9 |
| 35° | 6895.3 | 6177.8 | 4154.2 | 1715.0 | 1168.4 | 1144.5 | 1139.9 | 1137.6 | 1139.9 | 1133.1 | 1134.2 |
| 37.5° | 6814.4 | 6003.6 | 3696.5 | 1365.4 | 1110.3 | 1095.5 | 1081.8 | 1064.8 | 1045.4 | 1034.0 | 1036.3 |
| 40° | 6784.8 | 5873.8 | 3233.0 | 1179.8 | 1062.5 | 1052.2 | 1026.0 | 989.6 | 966.8 | 960.0 | 960.0 |
| 42.5° | 6864.5 | 5806.6 | 2785.4 | 1086.4 | 1022.6 | 1005.5 | 962.3 | 920.1 | 903.0 | 901.9 | 900.8 |
| 45° | 7108.2 | 5833.9 | 2359.5 | 1035.1 | 986.2 | 953.2 | 896.2 | 860.9 | 849.5 | 851.8 | 850.7 |
| 47.5° | 7545.5 | 6005.9 | 1995.1 | 1001.0 | 949.7 | 906.5 | 842.7 | 814.2 | 800.6 | 800.6 | 801.7 |
| 50° | 8289.1 | 6407.9 | 1704.7 | 972.5 | 919.0 | 863.2 | 804.0 | 768.7 | 750.5 | 749.3 | 749.3 |
| 52.5° | 9372.1 | 7127.6 | 1523.7 | 948.6 | 884.8 | 824.5 | 765.3 | 720.8 | 699.2 | 694.7 | 692.4 |
| 55° | 10729.5 | 8159.3 | 1473.6 | 932.7 | 839.3 | 782.3 | 718.6 | 674.2 | 650.2 | 640.0 | 638.9 |
| 57.5° | 12247.5 | 9414.2 | 1572.6 | 913.3 | 792.6 | 732.2 | 667.3 | 625.2 | 600.1 | 587.6 | 586.5 |
| 60° | 13783.7 | 10784.2 | 1976.9 | 886.0 | 753.9 | 677.6 | 614.9 | 576.2 | 551.2 | 537.5 | 535.2 |
| 62.5° | 15322.2 | 12228.2 | 2802.5 | 883.7 | 726.5 | 625.2 | 561.4 | 528.4 | 504.5 | 489.7 | 486.3 |
| 65° | 17057.7 | 13808.8 | 3740.9 | 944.0 | 717.4 | 577.4 | 506.8 | 480.6 | 460.1 | 446.4 | 445.3 |
| 67.5° | 19050.6 | 15593.2 | 3650.9 | 1068.2 | 748.2 | 534.1 | 455.5 | 435.0 | 420.2 | 408.8 | 407.7 |
| 70° | 19985.5 | 15314.2 | 2269.6 | 1155.9 | 791.4 | 492.0 | 406.5 | 391.7 | 380.4 | 372.4 | 369.0 |
| 71° | 19593.7 | 14541.0 | 1902.9 | 1145.6 | 786.9 | 473.7 | 387.2 | 375.8 | 364.4 | 357.6 | 354.2 |
| 72.5° | 18525.6 | 13261.0 | 1587.5 | 1065.9 | 735.6 | 440.7 | 362.1 | 350.7 | 340.5 | 332.5 | 330.2 |
| 75° | 16623.8 | 11843.3 | 1270.9 | 851.8 | 586.5 | 372.4 | 317.7 | 305.2 | 297.2 | 292.7 | 288.1 |
| 77.5° | 12220.2 | 8452.0 | 982.8 | 673.0 | 431.6 | 304.1 | 271.0 | 261.9 | 253.9 | 247.1 | 243.7 |
| 80° | 4681.5 | 3274.0 | 661.6 | 502.2 | 316.6 | 240.3 | 218.6 | 214.1 | 206.1 | 201.6 | 201.6 |
| 82.5° | 1260.6 | 978.2 | 353.0 | 304.1 | 211.8 | 175.4 | 167.4 | 165.1 | 158.3 | 149.2 | 150.3 |
| 85° | 510.2 | 431.6 | 198.1 | 167.4 | 129.8 | 103.6 | 112.7 | 113.9 | 105.9 | 94.5 | 95.7 |
| 87.5° | 224.3 | 183.3 | 110.5 | 74.0 | 56.9 | 39.9 | 51.2 | 51.2 | 46.7 | 38.7 | 35.3 |
| 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)