

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: P457051

Luminaire Tested: **GALN-SA8B-760-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34349 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

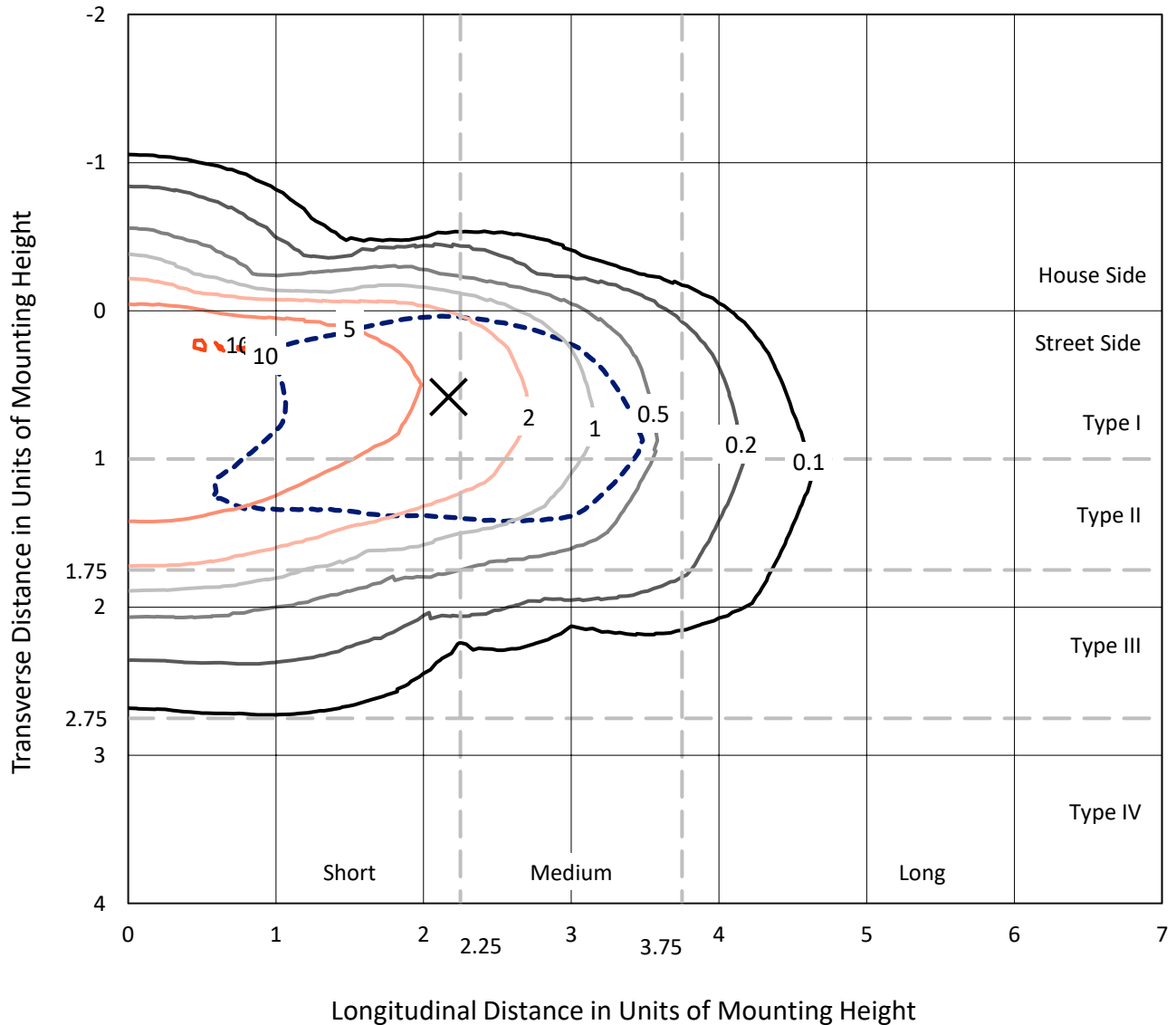
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

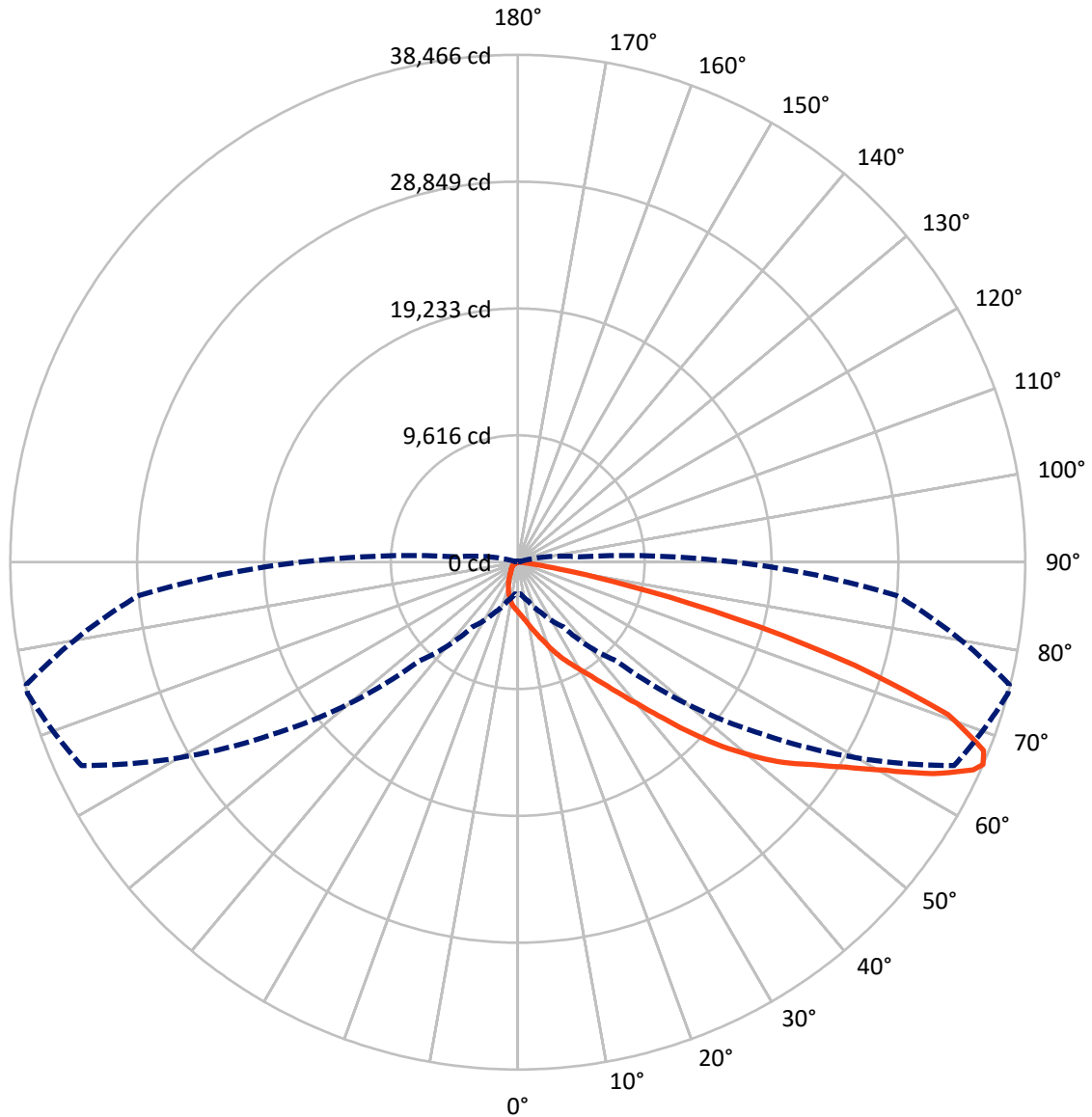
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2120.6 | 0.0 | 2120.6 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 32228.4 | 0.0 | 32228.4 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 34349.0 | 0.0 | 34349.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.3 | 1.1 |
| 10°-20° | 1066.3 | 3.1 |
| 20°-30° | 1841.3 | 5.4 |
| 30°-40° | 3321.3 | 9.7 |
| 40°-50° | 5999.9 | 17.5 |
| 50°-60° | 9354.0 | 27.2 |
| 60°-70° | 8885.9 | 25.9 |
| 70°-80° | 3330.2 | 9.7 |
| 80°-90° | 187.9 | 0.5 |
| 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° | 34349.0 | 100.0 |
| 0°-180° | 34349.0 | 100.0 |

Coefficient of Utilization



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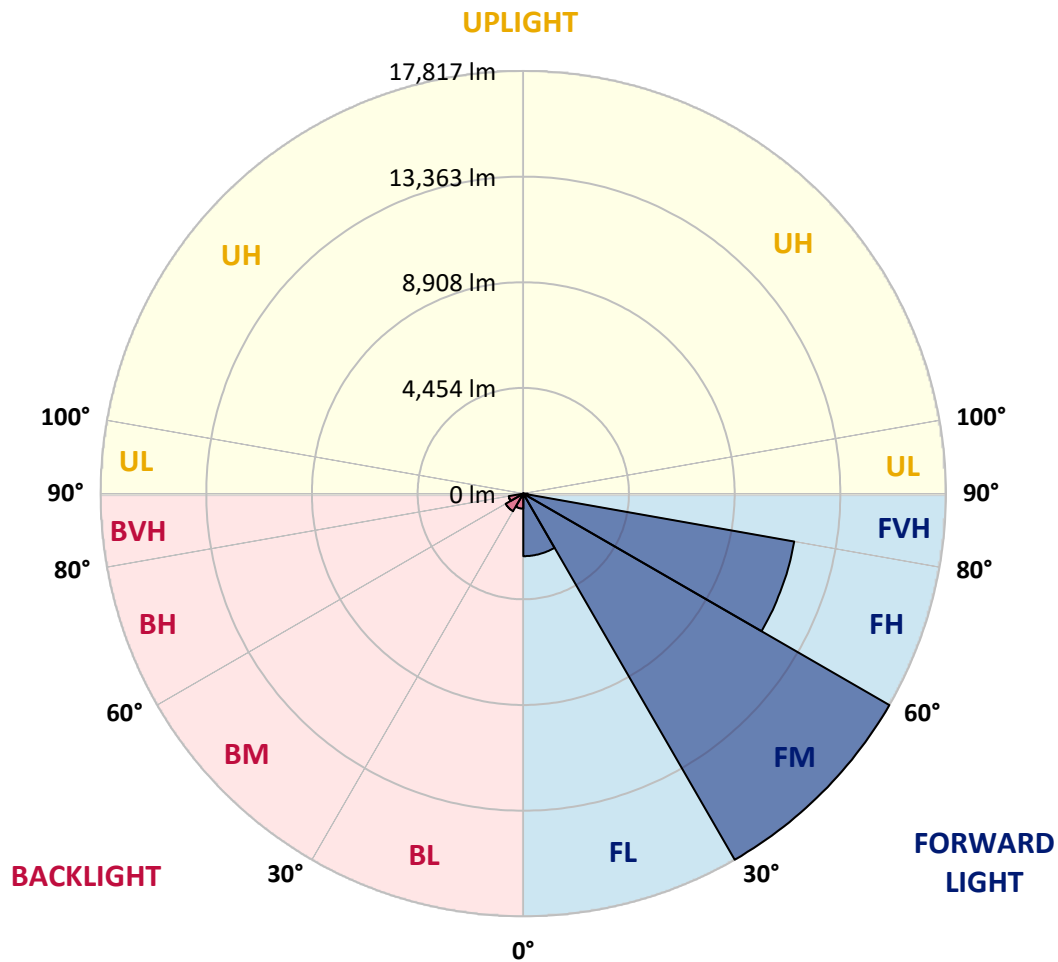
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2636.6 | 7.7 | | | |
| FM (30°-60°) | 17816.8 | 51.9 | | | |
| FH (60°-80°) | 11596.9 | 33.8 | | | G4/12000 |
| FVH (80°-90°) | 178.2 | 0.5 | | | G2/225 |
| BL (0°-30°) | 633.3 | 1.8 | B2/1000 | | |
| BM (30°-60°) | 858.3 | 2.5 | B1/1000 | | |
| BH (60°-80°) | 619.2 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 |
| 2.5° | 4487.9 | 4432.0 | 4449.8 | 4424.4 | 4366.0 | 4279.6 | 4203.4 | 4094.2 | 3985.0 | 3967.2 | 3845.3 |
| 5° | 5079.7 | 5064.4 | 5044.1 | 4970.4 | 4929.8 | 4797.7 | 4640.3 | 4452.3 | 4226.3 | 4185.6 | 3964.7 |
| 7.5° | 5483.5 | 5475.9 | 5486.0 | 5447.9 | 5412.4 | 5293.0 | 5125.4 | 4868.8 | 4518.4 | 4495.5 | 4127.2 |
| 10° | 5615.6 | 5635.9 | 5674.0 | 5734.9 | 5790.8 | 5752.7 | 5625.7 | 5305.7 | 4896.8 | 4830.7 | 4312.6 |
| 12.5° | 5539.4 | 5562.2 | 5653.7 | 5816.2 | 5996.5 | 6100.7 | 6049.9 | 5816.2 | 5298.1 | 5244.7 | 4520.9 |
| 15° | 5343.8 | 5371.7 | 5501.3 | 5752.7 | 6075.3 | 6369.9 | 6496.9 | 6329.2 | 5765.4 | 5679.1 | 4772.3 |
| 17.5° | 5054.3 | 5094.9 | 5280.3 | 5613.0 | 6054.9 | 6562.9 | 6921.0 | 6865.1 | 6263.2 | 6181.9 | 5046.6 |
| 20° | 4835.8 | 4866.3 | 5023.8 | 5404.7 | 5968.6 | 6669.6 | 7324.9 | 7482.3 | 6877.8 | 6738.2 | 5369.2 |
| 22.5° | 4980.6 | 4990.8 | 5044.1 | 5272.7 | 5813.7 | 6697.5 | 7680.4 | 8124.9 | 7530.6 | 7406.1 | 5704.4 |
| 25° | 5689.2 | 5587.6 | 5534.3 | 5483.5 | 5780.6 | 6672.1 | 8003.0 | 8795.4 | 8180.8 | 8048.7 | 6037.2 |
| 27.5° | 6806.7 | 6761.0 | 6491.8 | 6131.1 | 6062.6 | 6705.1 | 8216.3 | 9430.4 | 8792.9 | 8650.6 | 6362.3 |
| 30° | 8023.3 | 7944.6 | 7779.5 | 7251.2 | 6720.4 | 6938.8 | 8371.3 | 10047.6 | 9516.7 | 9328.8 | 6659.4 |
| 32.5° | 9140.8 | 9191.6 | 8945.3 | 8401.7 | 7787.1 | 7436.6 | 8571.9 | 10720.6 | 10347.3 | 10113.6 | 7004.8 |
| 35° | 10443.8 | 10545.4 | 10166.9 | 9646.3 | 8927.5 | 8335.7 | 8963.0 | 11480.0 | 11401.3 | 11106.7 | 7538.2 |
| 37.5° | 11767.0 | 11828.0 | 11596.8 | 10865.4 | 10217.7 | 9478.6 | 9699.6 | 12417.2 | 12699.1 | 12447.7 | 8175.7 |
| 40° | 12879.5 | 12963.3 | 12793.1 | 12142.9 | 11452.1 | 10801.9 | 10768.9 | 13438.2 | 14243.3 | 13984.3 | 9125.6 |
| 42.5° | 13730.3 | 13793.8 | 13798.9 | 13339.2 | 12716.9 | 12422.3 | 12132.7 | 14741.2 | 16178.7 | 15879.0 | 10227.9 |
| 45° | 14804.6 | 14896.1 | 14842.7 | 14530.3 | 14065.6 | 14012.2 | 13862.4 | 16315.8 | 18495.0 | 18116.6 | 11657.8 |
| 47.5° | 16465.7 | 16526.6 | 16394.6 | 16026.3 | 15553.9 | 15637.7 | 15548.8 | 18081.0 | 20857.1 | 20532.0 | 13138.5 |
| 50° | 17618.8 | 17720.4 | 17908.3 | 18055.6 | 17712.7 | 17402.9 | 17138.7 | 19729.4 | 23099.7 | 22807.6 | 14652.3 |
| 52.5° | 17606.1 | 17773.7 | 18368.0 | 19109.7 | 19858.9 | 19764.9 | 19005.5 | 21550.4 | 25240.8 | 24880.1 | 16074.6 |
| 55° | 16420.0 | 16745.1 | 17618.8 | 18934.4 | 21009.4 | 22043.2 | 21697.7 | 23658.5 | 27089.8 | 26846.0 | 17722.9 |
| 57.5° | 13971.6 | 14169.7 | 15383.7 | 17222.6 | 20366.9 | 23115.0 | 24816.6 | 26515.8 | 29307.1 | 29192.8 | 20283.1 |
| 60° | 9397.4 | 9486.3 | 11048.2 | 13321.4 | 17339.4 | 22045.7 | 27102.5 | 29972.5 | 32037.4 | 31981.5 | 23272.4 |
| 62.5° | 5384.4 | 5422.5 | 6555.3 | 8472.9 | 12338.5 | 18683.0 | 27295.5 | 34236.9 | 35311.2 | 35341.7 | 26731.7 |
| 65° | 2897.9 | 2918.3 | 3832.6 | 4973.0 | 7507.7 | 13316.3 | 24544.9 | 36573.5 | 37957.7 | 38016.1 | 28875.3 |
| 66° | 2501.7 | 2405.2 | 3050.3 | 4239.0 | 5973.7 | 10598.7 | 22805.1 | 36489.7 | 38465.7 | 38402.2 | 28799.1 |
| 67.5° | 1902.3 | 1988.7 | 2435.7 | 3258.6 | 4426.9 | 7535.7 | 18827.7 | 34866.7 | 38079.6 | 37881.5 | 27628.2 |
| 70° | 1361.3 | 1396.9 | 1734.7 | 2323.9 | 3014.8 | 4134.8 | 12031.2 | 28959.1 | 34610.2 | 34343.5 | 24069.9 |
| 72.5° | 878.8 | 916.9 | 1229.3 | 1681.4 | 2179.2 | 2257.9 | 6735.6 | 20923.1 | 26683.4 | 26645.3 | 18126.7 |
| 75° | 627.3 | 662.9 | 812.7 | 1203.9 | 1638.2 | 1396.9 | 3243.4 | 14101.1 | 16963.5 | 16849.2 | 11213.3 |
| 77.5° | 454.6 | 472.4 | 543.5 | 787.3 | 1170.9 | 1000.7 | 1503.6 | 7530.6 | 8444.9 | 8843.7 | 4955.2 |
| 80° | 261.6 | 276.8 | 378.4 | 480.0 | 792.4 | 683.2 | 718.8 | 3022.4 | 3116.4 | 2966.5 | 1549.3 |
| 82.5° | 129.5 | 147.3 | 226.0 | 327.6 | 495.3 | 459.7 | 330.2 | 909.3 | 960.1 | 934.7 | 391.1 |
| 85° | 30.5 | 38.1 | 127.0 | 215.9 | 241.3 | 205.7 | 160.0 | 266.7 | 330.2 | 322.6 | 149.8 |
| 87.5° | 2.5 | 5.1 | 45.7 | 38.1 | 40.6 | 68.6 | 55.9 | 68.6 | 106.7 | 99.1 | 53.3 |
| 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° | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 | 3756.4 |
| 2.5° | 3789.4 | 3741.2 | 3601.5 | 3464.3 | 3350.0 | 3230.7 | 3121.4 | 3058.0 | 3032.6 | 3004.6 | 3017.3 |
| 5° | 3842.8 | 3725.9 | 3444.0 | 3200.2 | 2961.4 | 2758.3 | 2595.7 | 2491.6 | 2440.8 | 2433.2 | 2420.5 |
| 7.5° | 3913.9 | 3713.2 | 3276.4 | 2895.4 | 2583.0 | 2357.0 | 2171.6 | 2021.7 | 1976.0 | 1935.3 | 1902.3 |
| 10° | 4000.2 | 3690.4 | 3068.1 | 2575.4 | 2242.7 | 1958.2 | 1714.4 | 1536.6 | 1445.2 | 1419.8 | 1437.5 |
| 12.5° | 4091.7 | 3647.2 | 2849.7 | 2280.8 | 1897.3 | 1534.1 | 1308.0 | 1219.1 | 1193.7 | 1183.6 | 1186.1 |
| 15° | 4183.1 | 3593.9 | 2621.1 | 1996.3 | 1511.2 | 1224.2 | 1120.1 | 1097.2 | 1087.0 | 1082.0 | 1076.9 |
| 17.5° | 4266.9 | 3507.5 | 2364.6 | 1719.5 | 1224.2 | 1046.4 | 1008.3 | 988.0 | 967.7 | 960.1 | 947.4 |
| 20° | 4366.0 | 3408.4 | 2133.5 | 1409.6 | 1036.2 | 947.4 | 901.6 | 863.5 | 833.1 | 812.7 | 810.2 |
| 22.5° | 4459.9 | 3281.5 | 1892.2 | 1168.3 | 944.8 | 850.8 | 777.2 | 736.5 | 701.0 | 675.6 | 683.2 |
| 25° | 4510.7 | 3126.5 | 1676.3 | 1018.5 | 861.0 | 754.3 | 673.1 | 622.3 | 584.2 | 571.5 | 568.9 |
| 27.5° | 4510.7 | 2936.0 | 1465.5 | 932.1 | 784.8 | 668.0 | 584.2 | 535.9 | 510.5 | 492.7 | 495.3 |
| 30° | 4475.2 | 2725.2 | 1269.9 | 866.1 | 718.8 | 591.8 | 513.0 | 469.9 | 449.5 | 436.9 | 434.3 |
| 32.5° | 4447.2 | 2524.6 | 1102.3 | 802.6 | 650.2 | 525.7 | 457.2 | 424.2 | 403.8 | 391.1 | 391.1 |
| 35° | 4490.4 | 2351.9 | 972.8 | 739.1 | 586.7 | 474.9 | 414.0 | 383.5 | 363.2 | 353.0 | 350.5 |
| 37.5° | 4604.7 | 2194.4 | 873.7 | 670.5 | 528.3 | 431.8 | 383.5 | 348.0 | 327.6 | 314.9 | 309.9 |
| 40° | 4886.6 | 2105.5 | 800.0 | 607.0 | 472.4 | 396.2 | 348.0 | 314.9 | 289.5 | 276.8 | 274.3 |
| 42.5° | 5338.7 | 2108.1 | 728.9 | 548.6 | 429.2 | 365.7 | 317.5 | 279.4 | 251.4 | 238.7 | 236.2 |
| 45° | 6019.4 | 2204.6 | 673.1 | 492.7 | 391.1 | 332.7 | 284.5 | 243.8 | 218.4 | 205.7 | 205.7 |
| 47.5° | 6834.7 | 2392.5 | 624.8 | 444.5 | 355.6 | 302.2 | 251.4 | 210.8 | 185.4 | 175.2 | 175.2 |
| 50° | 7718.5 | 2636.3 | 576.5 | 393.7 | 325.1 | 269.2 | 215.9 | 182.9 | 162.5 | 154.9 | 154.9 |
| 52.5° | 8620.2 | 2931.0 | 528.3 | 353.0 | 292.1 | 233.7 | 185.4 | 162.5 | 144.8 | 139.7 | 137.2 |
| 55° | 9803.7 | 3306.9 | 477.5 | 309.9 | 256.5 | 200.6 | 165.1 | 142.2 | 121.9 | 114.3 | 111.8 |
| 57.5° | 11624.8 | 3873.2 | 421.6 | 271.8 | 210.8 | 167.6 | 142.2 | 119.4 | 96.5 | 83.8 | 81.3 |
| 60° | 13821.7 | 4564.1 | 363.2 | 238.7 | 170.2 | 137.2 | 114.3 | 91.4 | 71.1 | 55.9 | 53.3 |
| 62.5° | 15879.0 | 5003.5 | 307.3 | 200.6 | 134.6 | 104.1 | 81.3 | 68.6 | 50.8 | 35.6 | 33.0 |
| 65° | 16788.3 | 4856.1 | 254.0 | 162.5 | 106.7 | 73.7 | 53.3 | 48.3 | 30.5 | 15.2 | 12.7 |
| 66° | 16486.0 | 4637.7 | 233.7 | 147.3 | 96.5 | 63.5 | 45.7 | 40.6 | 22.9 | 7.6 | 7.6 |
| 67.5° | 15594.5 | 4122.1 | 203.2 | 127.0 | 83.8 | 50.8 | 35.6 | 30.5 | 12.7 | 2.5 | 0.0 |
| 70° | 13362.0 | 3334.8 | 160.0 | 94.0 | 61.0 | 35.6 | 20.3 | 15.2 | 7.6 | 0.0 | 0.0 |
| 72.5° | 10263.4 | 2483.9 | 127.0 | 71.1 | 43.2 | 20.3 | 10.2 | 5.1 | 7.6 | 0.0 | 0.0 |
| 75° | 6288.6 | 1419.8 | 99.1 | 53.3 | 27.9 | 12.7 | 7.6 | 0.0 | 7.6 | 2.5 | 0.0 |
| 77.5° | 2791.3 | 637.5 | 66.0 | 35.6 | 20.3 | 10.2 | 5.1 | 0.0 | 5.1 | 2.5 | 0.0 |
| 80° | 706.1 | 208.3 | 38.1 | 25.4 | 15.2 | 7.6 | 2.5 | 0.0 | 5.1 | 5.1 | 2.5 |
| 82.5° | 193.0 | 76.2 | 27.9 | 20.3 | 12.7 | 7.6 | 2.5 | 0.0 | 5.1 | 5.1 | 5.1 |
| 85° | 76.2 | 35.6 | 25.4 | 20.3 | 15.2 | 7.6 | 2.5 | 0.0 | 5.1 | 5.1 | 5.1 |
| 87.5° | 35.6 | 25.4 | 25.4 | 22.9 | 17.8 | 7.6 | 2.5 | 0.0 | 5.1 | 2.5 | 5.1 |
| 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)