

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: P532662

Luminaire Tested: **GALN-SA8A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30229 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

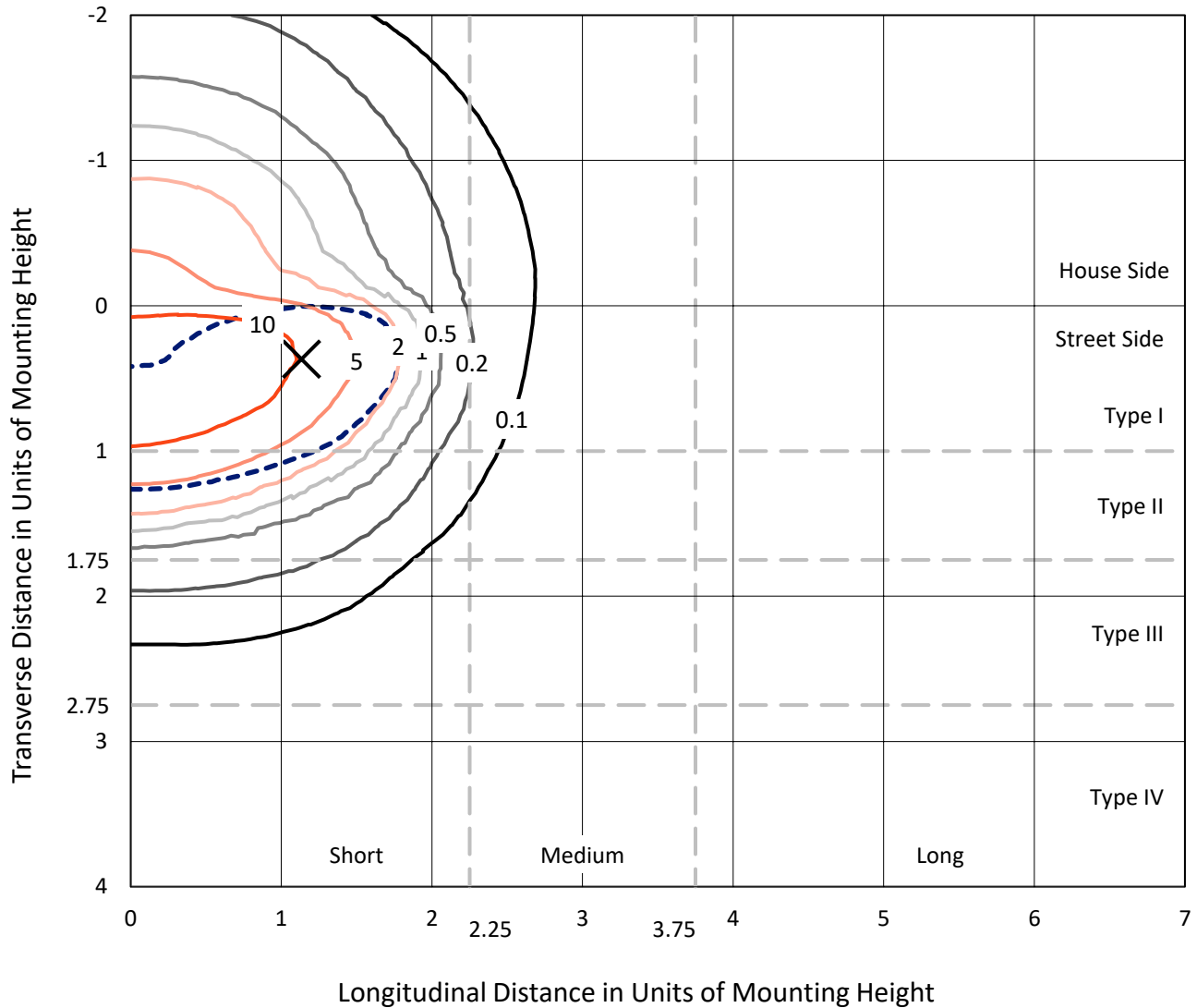
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

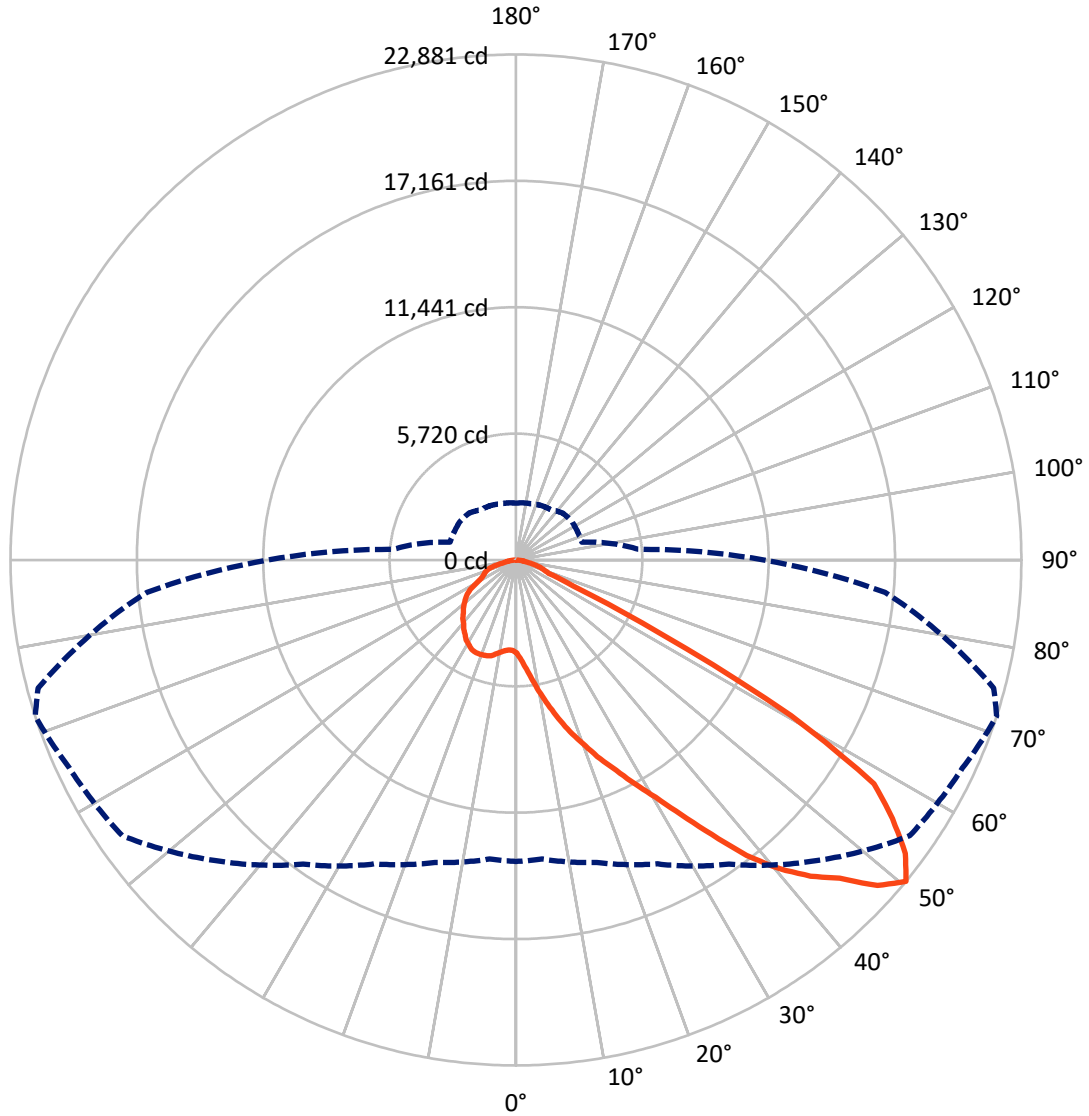
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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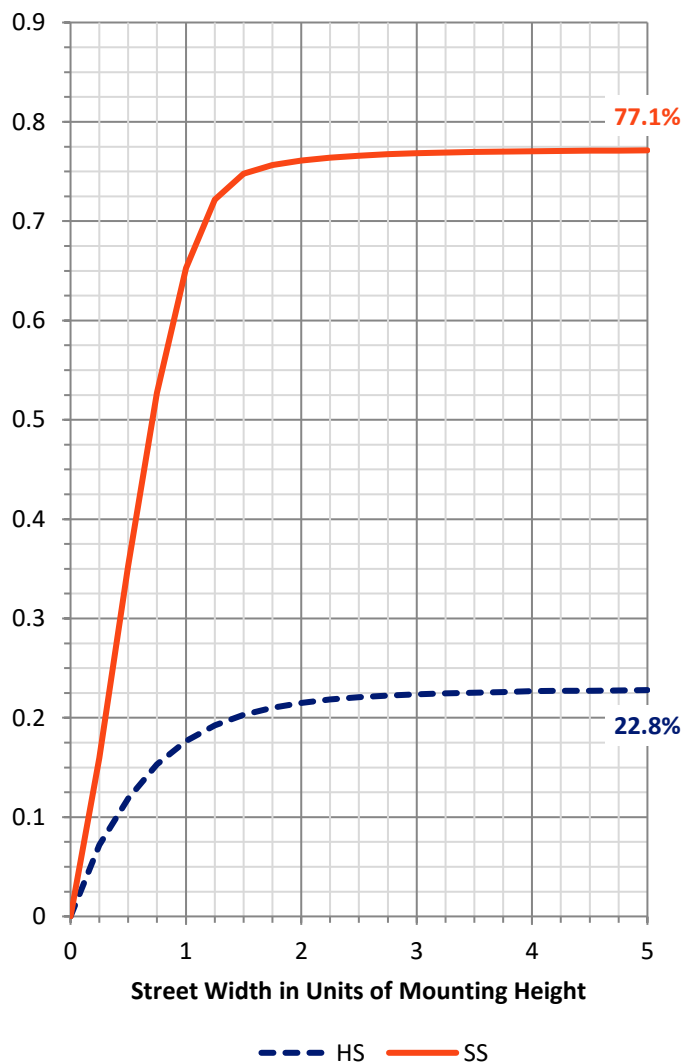
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6925.6 | 0.0 | 6925.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 23303.4 | 0.0 | 23303.4 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 30229.0 | 0.0 | 30229.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 495.0 | 1.6 |
| 10°-20° | 1850.4 | 6.1 |
| 20°-30° | 3587.8 | 11.9 |
| 30°-40° | 5943.8 | 19.7 |
| 40°-50° | 8316.6 | 27.5 |
| 50°-60° | 7016.2 | 23.2 |
| 60°-70° | 2138.5 | 7.1 |
| 70°-80° | 750.2 | 2.5 |
| 80°-90° | 130.4 | 0.4 |
| 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° | 30229.0 | 100.0 |
| 0°-180° | 30229.0 | 100.0 |

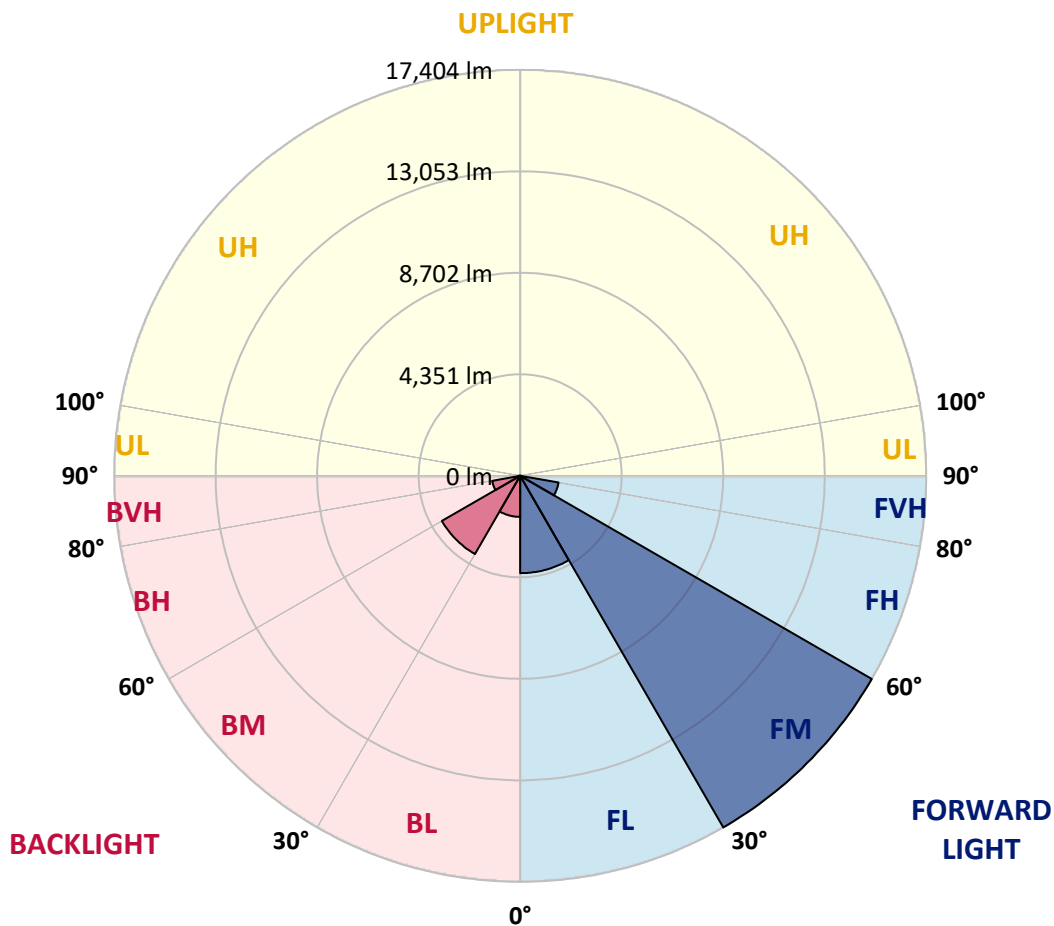


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4172.7 | 13.8 | | | |
| FM (30°-60°) | 17403.7 | 57.6 | | | |
| FH (60°-80°) | 1668.6 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 58.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1760.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3872.9 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1220.2 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 72.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 |
| 2.5° | 5412.6 | 5378.9 | 5277.9 | 5244.3 | 5124.6 | 4907.6 | 4832.8 | 4612.1 | 4518.6 | 4432.6 | 4331.6 |
| 5° | 6845.2 | 6688.1 | 6676.9 | 6486.1 | 6209.3 | 6048.5 | 5569.7 | 5248.0 | 4952.5 | 4802.9 | 4526.1 |
| 7.5° | 7757.9 | 7761.7 | 7761.7 | 7604.6 | 7383.9 | 6976.2 | 6546.0 | 5966.2 | 5521.1 | 5300.4 | 4829.1 |
| 10° | 8625.7 | 8550.9 | 8509.8 | 8494.8 | 8345.2 | 7948.7 | 7488.6 | 6770.4 | 6160.7 | 5902.6 | 5057.2 |
| 12.5° | 9239.2 | 9175.6 | 9269.1 | 9220.5 | 9112.0 | 8853.9 | 8420.0 | 7600.8 | 6837.8 | 6489.9 | 5423.8 |
| 15° | 9531.0 | 9575.8 | 9650.7 | 9785.3 | 9736.7 | 9639.4 | 9160.6 | 8453.7 | 7567.2 | 7174.4 | 5749.2 |
| 17.5° | 9979.8 | 9856.4 | 9946.2 | 10114.5 | 10249.1 | 10204.3 | 9931.2 | 9070.9 | 8289.1 | 7806.6 | 6186.9 |
| 20° | 10294.0 | 10223.0 | 10267.8 | 10462.4 | 10563.4 | 10817.7 | 10675.6 | 9878.8 | 8981.1 | 8472.4 | 6703.1 |
| 22.5° | 11191.8 | 11087.0 | 10941.1 | 10971.1 | 11008.5 | 11188.0 | 11221.7 | 10765.3 | 9785.3 | 9246.7 | 7193.1 |
| 25° | 12299.0 | 12201.7 | 12029.7 | 11853.8 | 11745.4 | 11711.7 | 11827.7 | 11461.1 | 10555.9 | 9998.5 | 7720.5 |
| 27.5° | 13518.4 | 13353.8 | 13245.3 | 12882.5 | 12590.7 | 12545.9 | 12489.7 | 12291.5 | 11468.6 | 10866.3 | 8315.3 |
| 30° | 14704.2 | 14573.2 | 14427.4 | 13847.6 | 13544.6 | 13496.0 | 13219.2 | 13275.3 | 12459.8 | 11790.3 | 8988.6 |
| 32.5° | 15601.9 | 15613.1 | 15280.2 | 14842.6 | 14558.3 | 14300.2 | 14199.2 | 14360.0 | 13731.6 | 13193.0 | 9740.4 |
| 35° | 16327.6 | 16361.2 | 16043.3 | 15646.8 | 15340.1 | 15519.6 | 15474.7 | 15549.5 | 15250.3 | 14591.9 | 10615.7 |
| 37.5° | 17034.5 | 16866.2 | 16525.8 | 16335.0 | 16174.2 | 16469.7 | 16851.2 | 16914.8 | 16970.9 | 16196.6 | 11633.2 |
| 40° | 17150.5 | 17165.4 | 16967.2 | 17101.9 | 16899.9 | 17345.0 | 18231.5 | 18149.2 | 18377.4 | 17700.3 | 12736.6 |
| 42.5° | 16985.9 | 17019.6 | 17098.1 | 17288.9 | 17775.2 | 18310.1 | 19626.7 | 19290.1 | 19566.9 | 18964.7 | 13810.2 |
| 45° | 16716.6 | 16578.2 | 16675.4 | 17401.1 | 18242.7 | 19432.2 | 20902.3 | 20640.4 | 20550.7 | 20045.7 | 15089.4 |
| 47.5° | 15429.8 | 15572.0 | 15875.0 | 16768.9 | 18033.3 | 19626.7 | 21807.5 | 21747.6 | 22017.0 | 21661.6 | 16252.8 |
| 50° | 13645.6 | 13589.5 | 14173.0 | 15179.2 | 16810.1 | 19245.2 | 21758.9 | 22301.2 | 22881.0 | 22387.3 | 16772.7 |
| 52.5° | 10219.2 | 10518.5 | 11019.7 | 12269.1 | 14595.7 | 17165.4 | 20696.5 | 21601.8 | 22073.1 | 21968.3 | 16353.7 |
| 55° | 6460.0 | 6549.7 | 6852.7 | 8337.7 | 10432.4 | 13776.5 | 17741.5 | 19840.0 | 20681.6 | 21074.3 | 15968.5 |
| 57.5° | 3138.3 | 2970.0 | 3340.3 | 4533.6 | 6026.0 | 9265.4 | 13683.0 | 17281.4 | 19110.5 | 19821.2 | 15130.6 |
| 60° | 1638.4 | 1702.0 | 1847.8 | 2274.3 | 3115.9 | 4810.4 | 8528.5 | 11517.2 | 14311.4 | 15403.6 | 11468.6 |
| 62.5° | 1357.8 | 1380.3 | 1477.5 | 1690.7 | 2072.3 | 2768.0 | 4354.0 | 5614.6 | 7297.8 | 8281.6 | 6523.5 |
| 65° | 1152.1 | 1163.3 | 1268.1 | 1410.2 | 1653.3 | 1948.8 | 2240.6 | 2345.3 | 2839.1 | 2913.9 | 2319.1 |
| 67.5° | 961.3 | 972.5 | 1084.8 | 1219.4 | 1376.5 | 1455.1 | 1529.9 | 1522.4 | 1578.5 | 1556.1 | 1552.3 |
| 70° | 740.6 | 751.9 | 867.8 | 1010.0 | 1088.5 | 1043.6 | 1275.5 | 1327.9 | 1350.3 | 1369.0 | 1399.0 |
| 72.5° | 534.9 | 557.3 | 647.1 | 748.1 | 707.0 | 811.7 | 1051.1 | 1129.7 | 1159.6 | 1170.8 | 1208.2 |
| 75° | 389.0 | 396.5 | 418.9 | 389.0 | 448.9 | 564.8 | 740.6 | 837.9 | 875.3 | 886.5 | 942.6 |
| 77.5° | 172.1 | 175.8 | 179.5 | 224.4 | 288.0 | 351.6 | 441.4 | 519.9 | 572.3 | 587.3 | 602.2 |
| 80° | 89.8 | 93.5 | 116.0 | 153.4 | 205.7 | 258.1 | 321.7 | 366.6 | 400.2 | 404.0 | 418.9 |
| 82.5° | 56.1 | 59.8 | 82.3 | 108.5 | 145.9 | 190.8 | 235.7 | 273.1 | 299.2 | 303.0 | 306.7 |
| 85° | 26.2 | 33.7 | 48.6 | 67.3 | 97.3 | 123.4 | 127.2 | 108.5 | 116.0 | 119.7 | 112.2 |
| 87.5° | 7.5 | 11.2 | 15.0 | 11.2 | 15.0 | 15.0 | 18.7 | 22.4 | 22.4 | 22.4 | 26.2 |
| 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° | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 | 4208.1 |
| 2.5° | 4275.5 | 4241.8 | 4110.9 | 4062.3 | 3935.1 | 3957.5 | 3890.2 | 3886.4 | 3871.5 | 3867.7 | 3864.0 |
| 5° | 4380.2 | 4275.5 | 4118.4 | 3998.7 | 3927.6 | 3920.1 | 3871.5 | 3871.5 | 3886.4 | 3897.7 | 3871.5 |
| 7.5° | 4552.3 | 4432.6 | 4167.0 | 4054.8 | 3991.2 | 3980.0 | 3946.3 | 3920.1 | 3953.8 | 3942.6 | 3912.6 |
| 10° | 4750.5 | 4541.0 | 4260.5 | 4163.2 | 4058.5 | 4032.3 | 4032.3 | 4043.5 | 3987.4 | 4006.1 | 3976.2 |
| 12.5° | 4971.2 | 4690.7 | 4380.2 | 4268.0 | 4144.5 | 4129.6 | 4122.1 | 4039.8 | 4069.7 | 4054.8 | 3980.0 |
| 15° | 5251.8 | 4862.7 | 4533.6 | 4342.8 | 4238.1 | 4170.7 | 4073.5 | 4058.5 | 4039.8 | 4002.4 | 3968.7 |
| 17.5° | 5554.7 | 5049.8 | 4604.6 | 4365.2 | 4208.1 | 4159.5 | 4084.7 | 4006.1 | 3950.0 | 3957.5 | 3931.3 |
| 20° | 5812.8 | 5221.8 | 4630.8 | 4387.7 | 4185.7 | 4092.2 | 3976.2 | 3927.6 | 3867.7 | 3864.0 | 3860.3 |
| 22.5° | 6119.6 | 5453.7 | 4668.2 | 4327.8 | 4118.4 | 4021.1 | 3942.6 | 3856.5 | 3815.4 | 3763.0 | 3789.2 |
| 25° | 6486.1 | 5543.5 | 4675.7 | 4294.2 | 4069.7 | 3897.7 | 3856.5 | 3763.0 | 3748.0 | 3673.2 | 3688.2 |
| 27.5° | 6751.7 | 5592.1 | 4615.9 | 4189.4 | 3957.5 | 3826.6 | 3751.8 | 3684.5 | 3658.3 | 3602.2 | 3587.2 |
| 30° | 7107.1 | 5667.0 | 4488.7 | 4058.5 | 3845.3 | 3699.4 | 3654.5 | 3639.6 | 3564.8 | 3504.9 | 3497.4 |
| 32.5° | 7511.1 | 5715.6 | 4406.4 | 3923.9 | 3729.3 | 3617.1 | 3639.6 | 3568.5 | 3475.0 | 3422.6 | 3407.7 |
| 35° | 7832.7 | 5734.3 | 4200.7 | 3770.5 | 3650.8 | 3579.7 | 3553.5 | 3538.6 | 3403.9 | 3355.3 | 3317.9 |
| 37.5° | 8322.8 | 5693.1 | 4028.6 | 3662.0 | 3564.8 | 3538.6 | 3516.1 | 3415.1 | 3261.8 | 3190.7 | 3138.3 |
| 40° | 8895.1 | 5681.9 | 3807.9 | 3508.6 | 3482.5 | 3512.4 | 3445.1 | 3288.0 | 3074.7 | 2996.2 | 2958.8 |
| 42.5° | 9444.9 | 5760.5 | 3669.5 | 3426.4 | 3392.7 | 3403.9 | 3310.4 | 3074.7 | 2970.0 | 2925.1 | 2865.3 |
| 45° | 10365.1 | 5925.1 | 3441.3 | 3299.2 | 3284.2 | 3276.7 | 3164.5 | 2917.6 | 2857.8 | 2801.7 | 2790.5 |
| 47.5° | 11195.5 | 5816.6 | 3295.4 | 3168.3 | 3183.2 | 3142.1 | 2902.7 | 2824.1 | 2756.8 | 2700.7 | 2682.0 |
| 50° | 11244.1 | 5558.5 | 3089.7 | 3067.3 | 3071.0 | 2999.9 | 2771.8 | 2719.4 | 2633.4 | 2596.0 | 2569.8 |
| 52.5° | 10989.8 | 5135.8 | 2898.9 | 2906.4 | 2917.6 | 2801.7 | 2610.9 | 2573.5 | 2502.4 | 2450.1 | 2435.1 |
| 55° | 10275.3 | 4477.5 | 2711.9 | 2741.8 | 2771.8 | 2551.1 | 2491.2 | 2397.7 | 2341.6 | 2266.8 | 2270.5 |
| 57.5° | 9052.2 | 3605.9 | 2450.1 | 2498.7 | 2562.3 | 2319.1 | 2274.3 | 2158.3 | 2076.0 | 2016.2 | 2008.7 |
| 60° | 6067.2 | 2566.0 | 2057.3 | 2076.0 | 2218.2 | 2120.9 | 2117.2 | 2001.2 | 1889.0 | 1836.6 | 1806.7 |
| 62.5° | 3579.7 | 1960.1 | 1776.8 | 1758.1 | 1754.3 | 1810.4 | 1903.9 | 1862.8 | 1716.9 | 1615.9 | 1645.8 |
| 65° | 1874.0 | 1694.5 | 1653.3 | 1589.7 | 1552.3 | 1537.4 | 1608.4 | 1627.1 | 1529.9 | 1421.4 | 1413.9 |
| 67.5° | 1574.8 | 1574.8 | 1541.1 | 1518.7 | 1466.3 | 1402.7 | 1357.8 | 1298.0 | 1283.0 | 1253.1 | 1215.7 |
| 70° | 1432.6 | 1470.0 | 1458.8 | 1406.5 | 1361.6 | 1290.5 | 1174.5 | 1077.3 | 983.8 | 950.1 | 972.5 |
| 72.5° | 1249.3 | 1286.8 | 1286.8 | 1260.6 | 1200.7 | 1092.2 | 980.0 | 867.8 | 789.3 | 729.4 | 721.9 |
| 75° | 961.3 | 980.0 | 1024.9 | 995.0 | 916.4 | 849.1 | 733.2 | 617.2 | 542.4 | 486.3 | 475.1 |
| 77.5° | 613.5 | 643.4 | 643.4 | 639.6 | 583.5 | 519.9 | 445.1 | 362.8 | 306.7 | 265.6 | 254.4 |
| 80° | 407.7 | 426.4 | 441.4 | 426.4 | 389.0 | 340.4 | 284.3 | 228.2 | 187.0 | 153.4 | 145.9 |
| 82.5° | 299.2 | 321.7 | 332.9 | 317.9 | 280.5 | 243.1 | 202.0 | 160.8 | 119.7 | 93.5 | 86.0 |
| 85° | 116.0 | 119.7 | 134.7 | 160.8 | 157.1 | 153.4 | 123.4 | 89.8 | 67.3 | 48.6 | 44.9 |
| 87.5° | 29.9 | 26.2 | 29.9 | 29.9 | 26.2 | 22.4 | 22.4 | 22.4 | 22.4 | 11.2 | 15.0 |
| 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)