

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: P647623

Luminaire Tested: **GALN-SA8D-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39160.2 lumens
Efficiency: N/A
Efficacy: 79.4 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

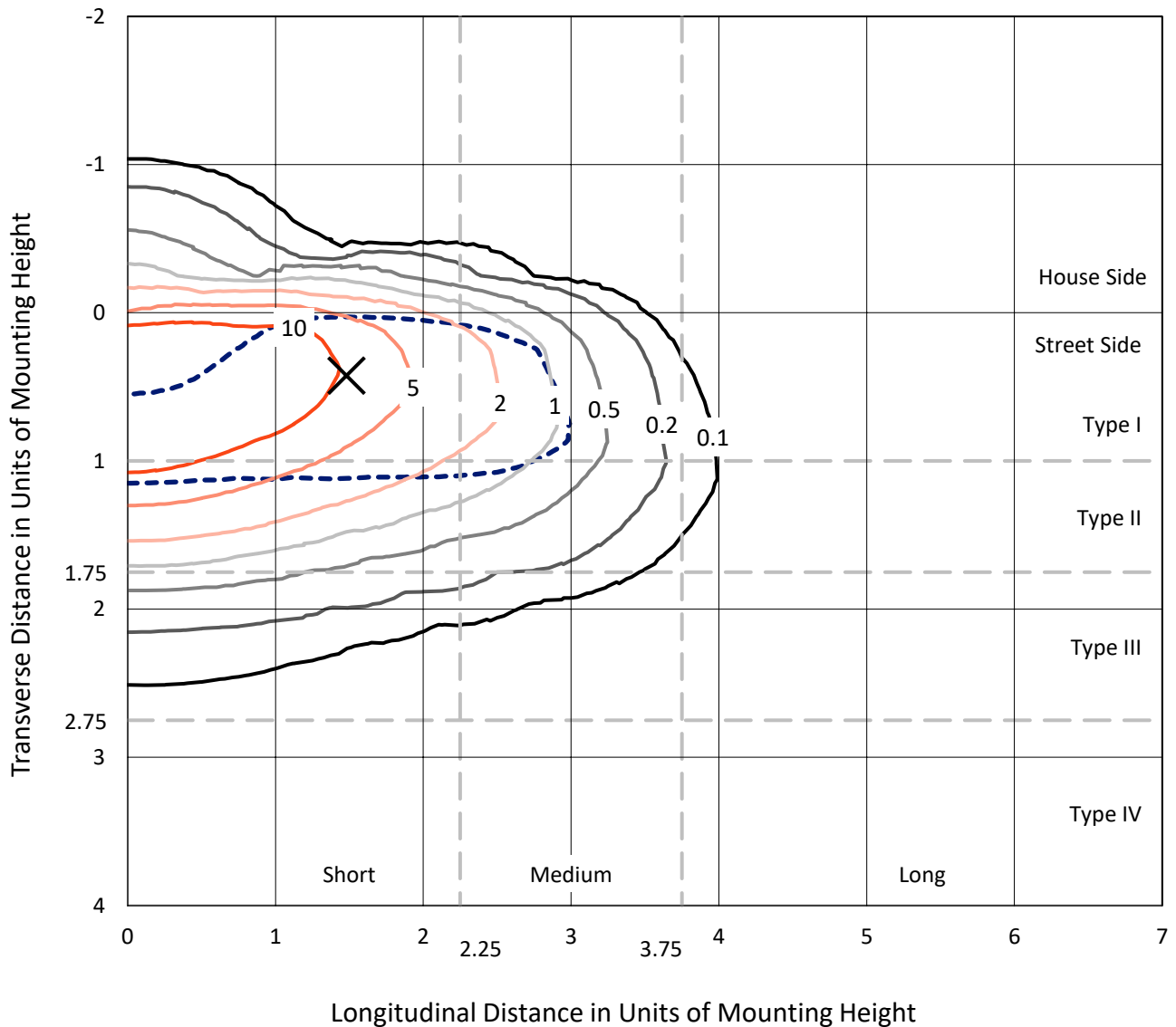
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

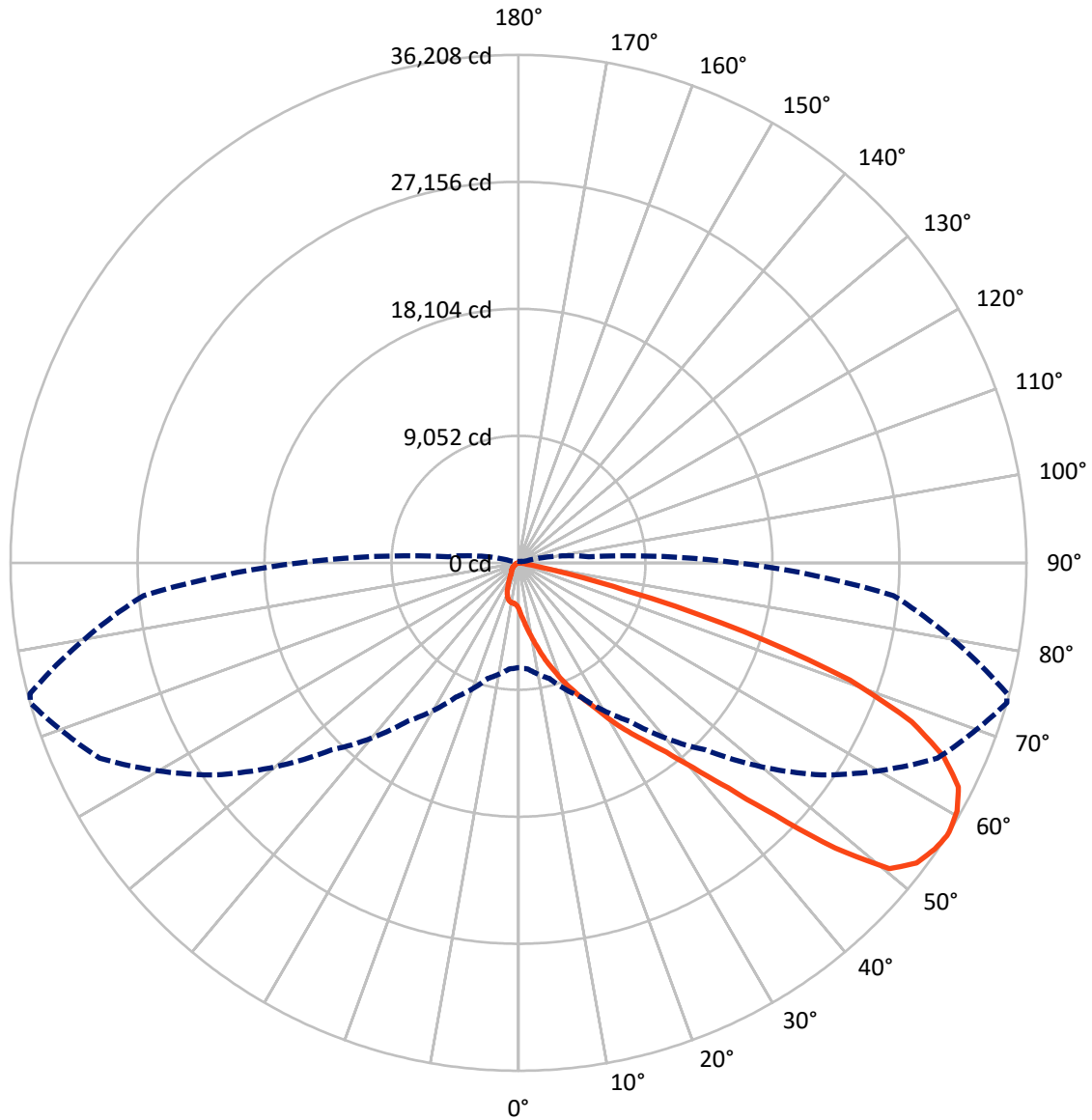
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2258.6 | 0.0 | 2258.6 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 36901.5 | 0.0 | 36901.5 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 39160.2 | 0.0 | 39160.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 395.9 | 1.0 |
| 10°-20° | 1560.3 | 4.0 |
| 20°-30° | 3338.7 | 8.5 |
| 30°-40° | 6136.5 | 15.7 |
| 40°-50° | 9407.3 | 24.0 |
| 50°-60° | 9951.6 | 25.4 |
| 60°-70° | 6498.7 | 16.6 |
| 70°-80° | 1775.7 | 4.5 |
| 80°-90° | 95.6 | 0.2 |
| 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° | 39160.2 | 100.0 |
| 0°-180° | 39160.2 | 100.0 |

Coefficient of Utilization

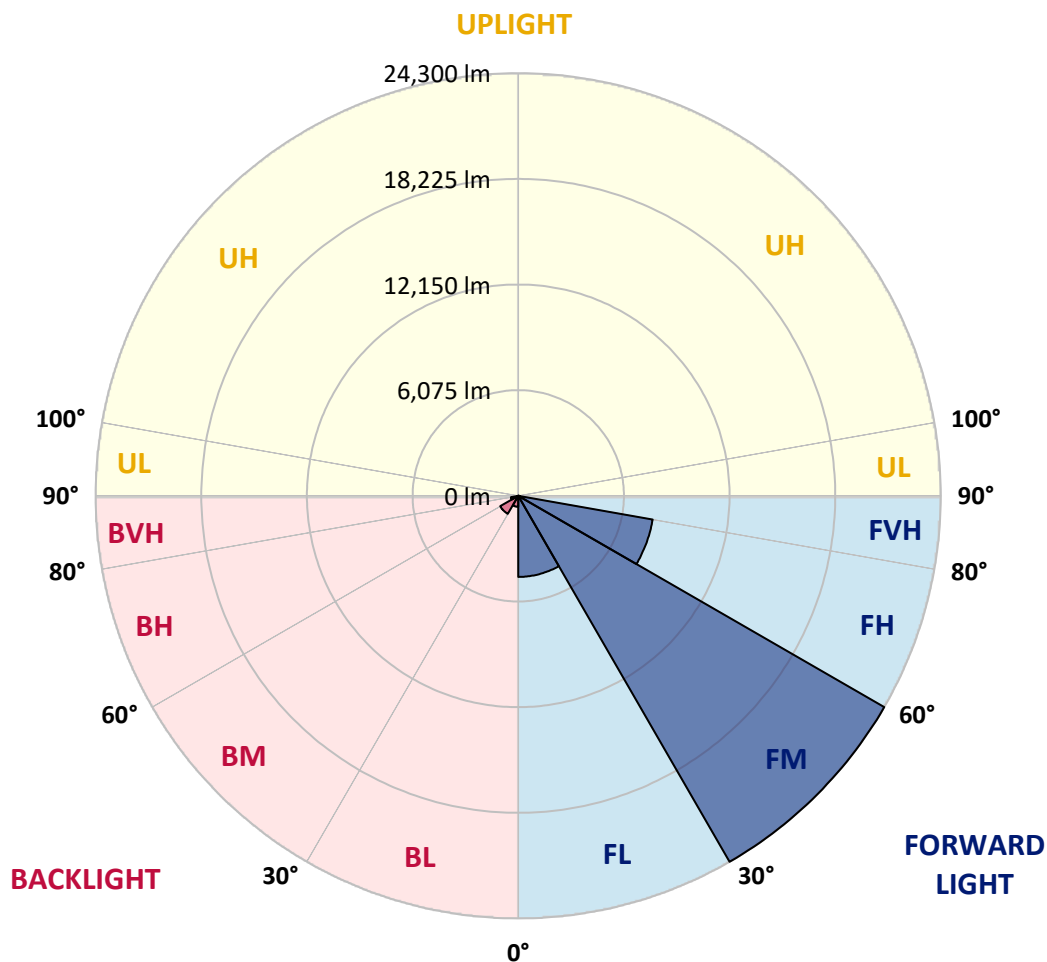


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4663.9 | 11.9 | | | |
| FM (30°-60°) | 24299.6 | 62.1 | | | |
| FH (60°-80°) | 7850.3 | 20.0 | | | G4/12000 |
| FVH (80°-90°) | 87.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 630.9 | 1.6 | B2/1000 | | |
| BM (30°-60°) | 1195.8 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 424.0 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.9 | 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° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 |
| 2.5° | 4799.1 | 4755.9 | 4669.3 | 4639.6 | 4512.5 | 4315.1 | 4142.1 | 3909.6 | 3725.7 | 3706.8 | 3485.1 |
| 5° | 6426.7 | 6329.4 | 6288.8 | 6094.2 | 5788.6 | 5502.1 | 5010.0 | 4636.8 | 4207.0 | 4174.6 | 3728.4 |
| 7.5° | 7994.9 | 7859.8 | 7819.2 | 7635.3 | 7278.5 | 6826.9 | 6188.8 | 5510.2 | 4828.8 | 4766.7 | 4055.5 |
| 10° | 9130.5 | 9149.4 | 9076.4 | 8954.7 | 8665.5 | 8205.8 | 7419.0 | 6491.6 | 5521.0 | 5442.6 | 4423.3 |
| 12.5° | 9944.3 | 9941.6 | 9955.1 | 9952.4 | 9798.3 | 9449.5 | 8622.2 | 7554.2 | 6283.4 | 6129.3 | 4845.0 |
| 15° | 10474.2 | 10482.3 | 10522.9 | 10663.4 | 10679.7 | 10463.4 | 9774.0 | 8570.8 | 7167.6 | 6975.6 | 5302.0 |
| 17.5° | 11009.5 | 11066.3 | 11131.2 | 11263.7 | 11382.7 | 11296.2 | 10809.5 | 9630.7 | 7967.9 | 7824.6 | 5791.4 |
| 20° | 11893.7 | 11972.1 | 11934.3 | 12015.4 | 12077.5 | 12085.6 | 11709.8 | 10609.4 | 8938.5 | 8697.9 | 6351.1 |
| 22.5° | 13307.7 | 13305.0 | 13207.6 | 13061.7 | 12940.0 | 12934.6 | 12593.9 | 11615.2 | 9819.9 | 9587.4 | 6913.4 |
| 25° | 15094.9 | 15103.0 | 14913.7 | 14497.3 | 14194.5 | 13824.1 | 13432.1 | 12496.6 | 10763.5 | 10476.9 | 7505.5 |
| 27.5° | 17144.3 | 17092.9 | 16806.3 | 16233.2 | 15632.9 | 15000.2 | 14435.2 | 13521.3 | 11763.9 | 11526.0 | 8184.2 |
| 30° | 18985.6 | 18966.6 | 18631.3 | 17931.1 | 17141.6 | 16506.2 | 15687.0 | 14805.6 | 13059.0 | 12767.0 | 8943.9 |
| 32.5° | 20699.7 | 20726.7 | 20261.7 | 19537.1 | 18774.6 | 18042.0 | 17176.7 | 16033.1 | 14329.8 | 13916.0 | 9771.2 |
| 35° | 22038.0 | 22065.1 | 21583.8 | 20980.9 | 20196.8 | 19588.5 | 18763.8 | 17341.6 | 15584.3 | 15235.5 | 10723.0 |
| 37.5° | 22751.8 | 22786.9 | 22508.5 | 22054.3 | 21564.9 | 21259.4 | 20491.5 | 19026.1 | 17109.2 | 16898.2 | 11847.7 |
| 40° | 22887.0 | 22927.6 | 22805.9 | 22684.2 | 22657.2 | 22876.2 | 22651.8 | 21010.6 | 19223.4 | 18893.6 | 13524.0 |
| 42.5° | 22481.4 | 22535.5 | 22589.6 | 22860.0 | 23411.5 | 24214.5 | 24995.9 | 23703.5 | 21946.1 | 21502.7 | 15573.4 |
| 45° | 21416.1 | 21410.7 | 21624.3 | 22324.7 | 23560.2 | 25274.4 | 27445.5 | 27075.0 | 25655.6 | 25128.3 | 18469.1 |
| 47.5° | 19593.9 | 19566.9 | 20029.1 | 21026.8 | 22951.9 | 25469.0 | 29443.5 | 31168.5 | 30389.8 | 29903.2 | 21581.1 |
| 50° | 16817.1 | 16949.6 | 17676.9 | 19069.3 | 21440.5 | 24879.7 | 30060.0 | 33853.3 | 34275.0 | 33758.7 | 24095.6 |
| 52.5° | 13564.5 | 13559.1 | 14700.1 | 16590.0 | 19201.8 | 23581.8 | 29630.1 | 34340.0 | 35537.7 | 35143.0 | 25333.9 |
| 55° | 10038.9 | 10109.2 | 11296.2 | 13202.2 | 16295.3 | 21213.4 | 28226.8 | 33839.8 | 36018.9 | 35740.5 | 26150.4 |
| 57° | 7467.7 | 7592.0 | 8543.8 | 10560.7 | 13764.7 | 18869.3 | 26358.6 | 32944.9 | 36208.3 | 36056.8 | 26829.0 |
| 57.5° | 6970.2 | 6975.6 | 7903.0 | 9736.1 | 13023.8 | 17968.9 | 25823.3 | 32571.7 | 36202.9 | 36119.0 | 26939.9 |
| 60° | 4290.8 | 4426.0 | 5066.8 | 6580.9 | 9533.3 | 14024.2 | 22235.4 | 30427.7 | 35921.6 | 36043.3 | 27413.1 |
| 62.5° | 2568.6 | 2625.3 | 3041.7 | 3966.4 | 6145.5 | 10236.3 | 18196.1 | 27683.4 | 35189.0 | 35559.3 | 27380.6 |
| 65° | 1652.0 | 1665.5 | 1854.8 | 2400.9 | 3842.0 | 6918.8 | 14021.5 | 24057.7 | 33293.6 | 33975.0 | 26309.9 |
| 67.5° | 1276.1 | 1297.8 | 1373.5 | 1576.3 | 2227.9 | 4309.7 | 9917.2 | 20188.7 | 30227.6 | 31106.3 | 23714.3 |
| 70° | 1132.8 | 1143.6 | 1170.7 | 1235.6 | 1473.5 | 2433.3 | 6169.9 | 15770.8 | 25066.2 | 25314.9 | 18558.4 |
| 72.5° | 924.6 | 954.4 | 1038.3 | 1059.9 | 1168.0 | 1519.5 | 3433.7 | 10585.1 | 16841.5 | 16903.6 | 10382.3 |
| 75° | 716.5 | 721.9 | 846.3 | 908.4 | 984.2 | 1046.3 | 1533.0 | 5337.2 | 8089.6 | 7657.0 | 4001.5 |
| 77.5° | 535.3 | 559.7 | 616.5 | 694.8 | 803.0 | 748.9 | 686.8 | 2011.6 | 2511.8 | 2465.8 | 1162.6 |
| 80° | 343.3 | 356.9 | 429.9 | 521.8 | 624.5 | 489.4 | 386.6 | 589.4 | 551.5 | 567.8 | 278.5 |
| 82.5° | 173.0 | 175.7 | 275.8 | 424.5 | 397.5 | 246.0 | 243.4 | 240.6 | 205.5 | 202.8 | 129.7 |
| 85° | 18.9 | 40.6 | 178.4 | 243.4 | 178.4 | 81.1 | 113.5 | 110.9 | 108.1 | 110.9 | 75.7 |
| 87.5° | 2.7 | 2.7 | 29.8 | 35.2 | 24.4 | 27.0 | 32.4 | 35.2 | 43.2 | 40.6 | 32.4 |
| 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° | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 | 3279.6 |
| 2.5° | 3376.9 | 3268.8 | 3068.7 | 2876.7 | 2733.5 | 2641.5 | 2522.6 | 2479.3 | 2417.1 | 2409.0 | 2379.3 |
| 5° | 3523.0 | 3317.5 | 2968.7 | 2692.9 | 2471.2 | 2303.6 | 2157.6 | 2035.9 | 1938.6 | 1916.9 | 1927.7 |
| 7.5° | 3731.2 | 3425.6 | 2938.9 | 2563.2 | 2254.9 | 1968.3 | 1735.8 | 1592.5 | 1489.7 | 1451.9 | 1457.3 |
| 10° | 3966.4 | 3568.9 | 2933.5 | 2425.3 | 1954.8 | 1603.3 | 1349.2 | 1222.1 | 1162.6 | 1141.0 | 1116.6 |
| 12.5° | 4244.9 | 3733.8 | 2920.0 | 2211.7 | 1625.0 | 1278.9 | 1097.7 | 1022.0 | 965.2 | 949.0 | 949.0 |
| 15° | 4558.5 | 3909.6 | 2855.1 | 1946.7 | 1319.4 | 1057.1 | 935.5 | 876.0 | 857.1 | 840.9 | 840.9 |
| 17.5° | 4885.6 | 4082.6 | 2719.9 | 1619.6 | 1095.0 | 905.8 | 830.1 | 794.9 | 767.9 | 748.9 | 748.9 |
| 20° | 5258.7 | 4252.9 | 2503.6 | 1330.2 | 924.6 | 808.4 | 748.9 | 708.4 | 686.8 | 670.6 | 665.1 |
| 22.5° | 5612.9 | 4390.8 | 2227.9 | 1092.3 | 805.7 | 727.3 | 673.2 | 630.0 | 608.3 | 600.2 | 600.2 |
| 25° | 5980.6 | 4474.7 | 1895.3 | 903.0 | 735.4 | 659.7 | 600.2 | 565.1 | 546.1 | 540.7 | 538.1 |
| 27.5° | 6337.5 | 4523.3 | 1603.3 | 789.5 | 670.6 | 597.5 | 540.7 | 513.7 | 494.8 | 489.4 | 492.1 |
| 30° | 6770.1 | 4531.5 | 1319.4 | 708.4 | 613.7 | 538.1 | 486.6 | 462.4 | 451.6 | 446.1 | 443.4 |
| 32.5° | 7208.1 | 4520.7 | 1108.5 | 659.7 | 559.7 | 486.6 | 443.4 | 424.5 | 416.4 | 408.3 | 408.3 |
| 35° | 7700.2 | 4463.9 | 943.6 | 611.1 | 508.3 | 443.4 | 405.6 | 389.3 | 378.5 | 370.4 | 367.7 |
| 37.5° | 8311.2 | 4434.1 | 849.0 | 556.9 | 462.4 | 402.9 | 367.7 | 351.5 | 343.3 | 332.5 | 329.9 |
| 40° | 9273.8 | 4566.6 | 819.3 | 508.3 | 416.4 | 365.0 | 332.5 | 313.7 | 302.8 | 292.0 | 289.3 |
| 42.5° | 10474.2 | 4799.1 | 770.6 | 459.6 | 375.8 | 329.9 | 297.4 | 275.8 | 256.8 | 243.4 | 238.0 |
| 45° | 12028.8 | 5104.6 | 694.8 | 408.3 | 340.7 | 292.0 | 262.2 | 235.2 | 210.9 | 200.1 | 197.4 |
| 47.5° | 13659.2 | 5399.3 | 627.3 | 367.7 | 302.8 | 259.6 | 227.1 | 197.4 | 175.7 | 167.6 | 164.9 |
| 50° | 14659.6 | 5458.8 | 584.0 | 321.7 | 265.0 | 224.4 | 192.0 | 164.9 | 151.4 | 143.3 | 143.3 |
| 52.5° | 15116.5 | 5364.2 | 524.5 | 281.2 | 229.8 | 197.4 | 164.9 | 143.3 | 135.2 | 129.7 | 127.1 |
| 55° | 15435.5 | 5218.1 | 446.1 | 243.4 | 197.4 | 167.6 | 146.0 | 129.7 | 118.9 | 113.5 | 110.9 |
| 57° | 15622.1 | 5020.8 | 386.6 | 213.6 | 170.3 | 146.0 | 129.7 | 116.3 | 105.5 | 94.7 | 94.7 |
| 57.5° | 15630.2 | 4945.1 | 370.4 | 210.9 | 162.2 | 140.6 | 127.1 | 113.5 | 100.1 | 89.2 | 86.5 |
| 60° | 15389.6 | 4426.0 | 297.4 | 178.4 | 129.7 | 118.9 | 105.5 | 89.2 | 70.3 | 59.5 | 56.8 |
| 62.5° | 14616.3 | 3766.3 | 246.0 | 151.4 | 105.5 | 91.9 | 75.7 | 67.6 | 48.7 | 35.2 | 35.2 |
| 65° | 13445.6 | 3055.2 | 210.9 | 121.7 | 86.5 | 67.6 | 51.4 | 48.7 | 29.8 | 16.2 | 13.5 |
| 67.5° | 11753.1 | 2379.3 | 178.4 | 100.1 | 73.0 | 48.7 | 35.2 | 32.4 | 16.2 | 5.4 | 0.0 |
| 70° | 8954.7 | 1622.2 | 148.7 | 81.1 | 54.1 | 35.2 | 24.4 | 18.9 | 10.8 | 2.7 | 0.0 |
| 72.5° | 5161.4 | 892.2 | 124.3 | 62.2 | 40.6 | 27.0 | 18.9 | 10.8 | 10.8 | 0.0 | 0.0 |
| 75° | 1844.0 | 383.9 | 94.7 | 46.0 | 32.4 | 21.6 | 13.5 | 5.4 | 8.1 | 2.7 | 0.0 |
| 77.5° | 586.7 | 205.5 | 62.2 | 35.2 | 27.0 | 16.2 | 10.8 | 5.4 | 5.4 | 2.7 | 0.0 |
| 80° | 173.0 | 108.1 | 37.8 | 29.8 | 18.9 | 13.5 | 8.1 | 2.7 | 5.4 | 2.7 | 0.0 |
| 82.5° | 94.7 | 54.1 | 29.8 | 21.6 | 18.9 | 10.8 | 8.1 | 2.7 | 2.7 | 2.7 | 0.0 |
| 85° | 48.7 | 32.4 | 24.4 | 21.6 | 18.9 | 10.8 | 8.1 | 2.7 | 0.0 | 2.7 | 2.7 |
| 87.5° | 27.0 | 24.4 | 24.4 | 21.6 | 18.9 | 13.5 | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 |
| 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)