

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: P647630

Luminaire Tested: **GALN-SA8D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42697.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

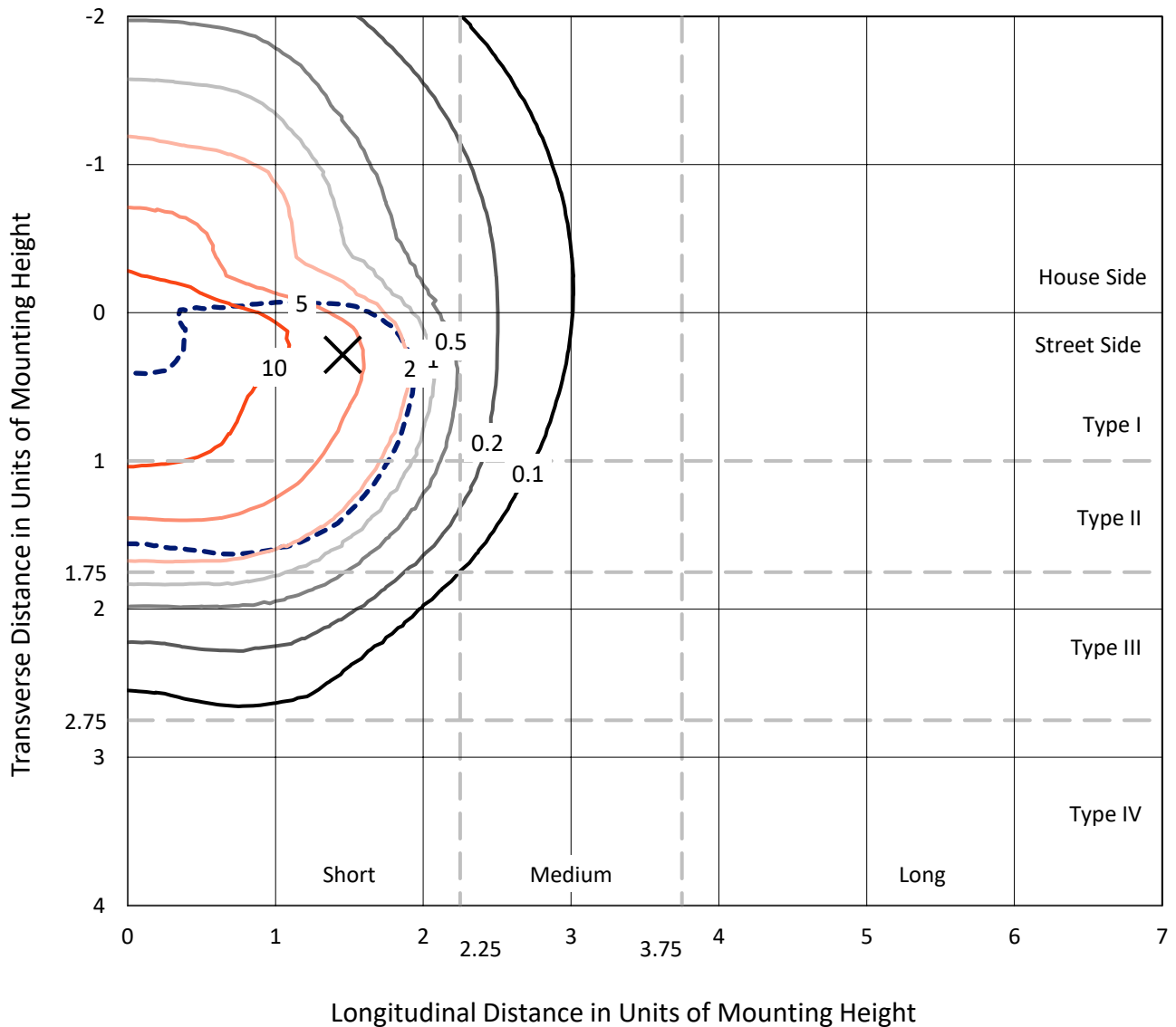
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

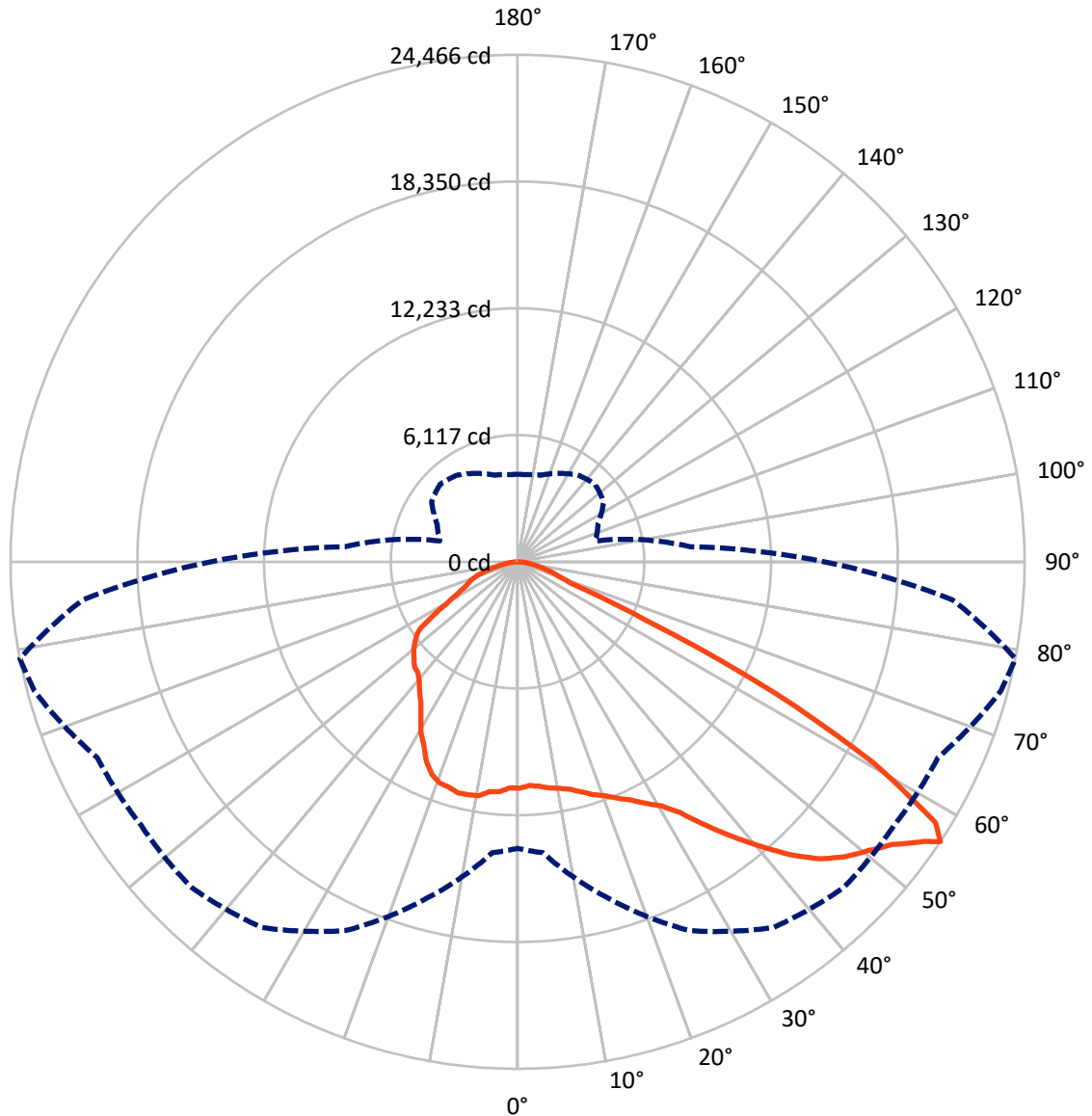
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12609.6 | 0.0 | 12609.6 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 30088.2 | 0.0 | 30088.2 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 42697.8 | 0.0 | 42697.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 993.3 | 2.3 |
| 10°-20° | 2718.3 | 6.4 |
| 20°-30° | 4650.4 | 10.9 |
| 30°-40° | 7127.4 | 16.7 |
| 40°-50° | 9632.6 | 22.6 |
| 50°-60° | 11063.4 | 25.9 |
| 60°-70° | 5043.0 | 11.8 |
| 70°-80° | 1243.4 | 2.9 |
| 80°-90° | 226.0 | 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° | 42697.8 | 100.0 |
| 0°-180° | 42697.8 | 100.0 |



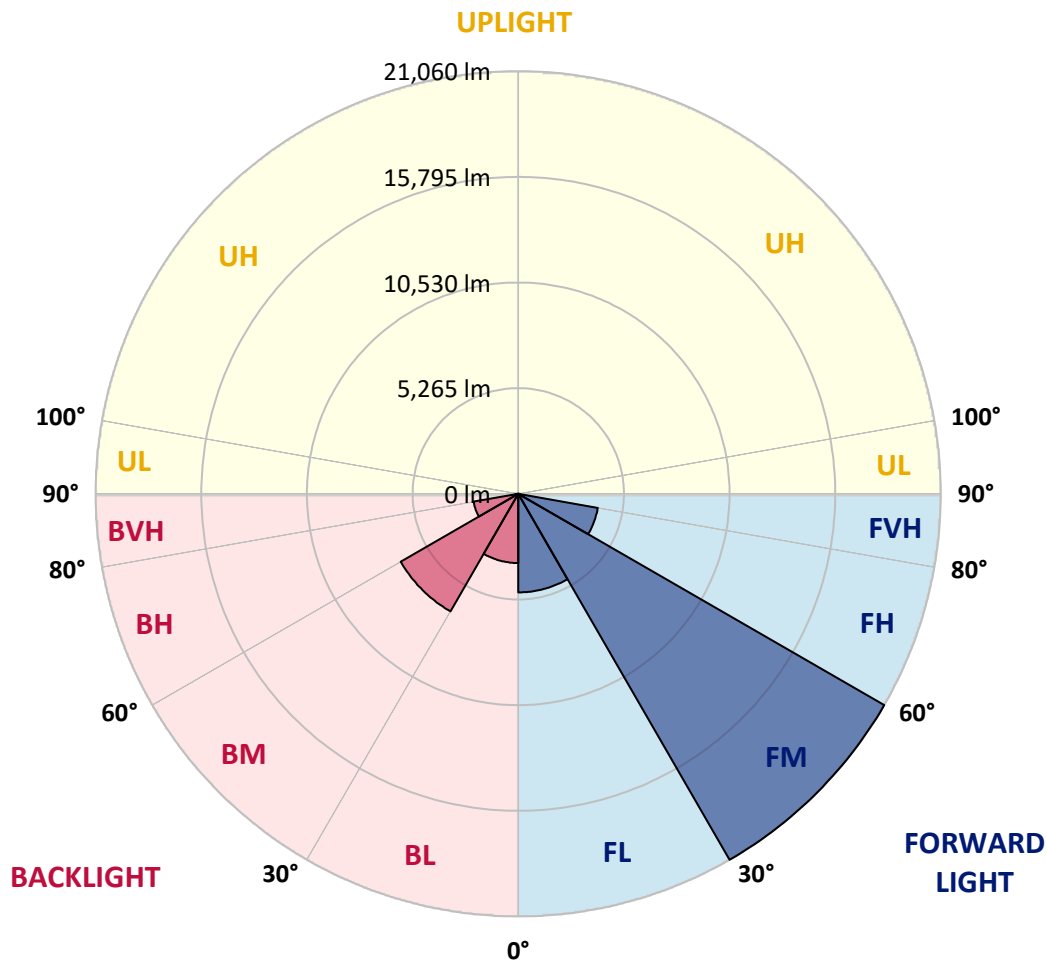
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4912.7 | 11.5 | | | |
| FM (30°-60°) | 21059.8 | 49.3 | | | |
| FH (60°-80°) | 4025.4 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 90.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3449.3 | 8.1 | B4/5000 | | |
| BM (30°-60°) | 6763.6 | 15.8 | B4/8500 | | |
| BH (60°-80°) | 2261.0 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.7 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 |
| 2.5° | 10392.8 | 10366.2 | 10430.0 | 10477.9 | 10536.4 | 10610.9 | 10648.1 | 10669.4 | 10855.5 | 10807.7 | 10951.3 |
| 5° | 10169.4 | 10100.2 | 10148.1 | 10185.3 | 10286.4 | 10376.9 | 10477.9 | 10637.4 | 10807.7 | 10882.1 | 11057.6 |
| 7.5° | 9972.6 | 9935.4 | 9924.8 | 9951.3 | 10089.7 | 10206.6 | 10382.2 | 10616.1 | 10892.8 | 11015.1 | 11116.2 |
| 10° | 9648.2 | 9595.0 | 9674.7 | 9850.3 | 9887.5 | 10132.2 | 10334.3 | 10669.4 | 10908.7 | 11121.5 | 11419.3 |
| 12.5° | 9504.6 | 9451.4 | 9467.3 | 9568.4 | 9829.0 | 10063.0 | 10302.4 | 10680.0 | 11185.3 | 11270.4 | 11669.3 |
| 15° | 9733.2 | 9680.1 | 9696.0 | 9669.4 | 9919.4 | 10041.7 | 10419.4 | 10892.8 | 11376.8 | 11520.4 | 11945.8 |
| 17.5° | 10254.5 | 10259.8 | 10190.7 | 10132.2 | 10073.7 | 10334.3 | 10594.9 | 11020.4 | 11451.2 | 11812.9 | 12132.0 |
| 20° | 11249.1 | 11073.6 | 10935.3 | 10605.6 | 10515.1 | 10626.8 | 10956.6 | 11366.1 | 11754.4 | 12052.2 | 12413.9 |
| 22.5° | 12015.0 | 12031.0 | 11834.2 | 11291.6 | 11094.9 | 11142.7 | 11424.6 | 11759.7 | 12185.2 | 12397.9 | 12812.9 |
| 25° | 13126.6 | 13014.9 | 12802.2 | 12371.4 | 11929.9 | 11967.1 | 12174.6 | 12477.7 | 12594.7 | 12743.6 | 13195.7 |
| 27.5° | 14142.5 | 14174.4 | 13754.3 | 13350.0 | 12802.2 | 12695.8 | 13068.1 | 13121.3 | 12924.5 | 13206.4 | 13360.6 |
| 30° | 15174.3 | 15147.8 | 14871.1 | 14397.8 | 13860.6 | 13881.9 | 14046.8 | 13786.1 | 13514.9 | 13669.1 | 13775.5 |
| 32.5° | 16243.4 | 15940.2 | 15929.6 | 15504.1 | 15094.5 | 14897.7 | 14695.7 | 14823.3 | 14403.1 | 14435.0 | 14334.0 |
| 35° | 17099.7 | 17142.3 | 16897.6 | 16594.4 | 16392.3 | 16046.6 | 15493.5 | 15722.2 | 15642.4 | 15605.1 | 15169.0 |
| 37.5° | 17722.0 | 17557.1 | 17679.4 | 17578.4 | 17386.9 | 16956.1 | 16381.7 | 16599.8 | 16636.9 | 16817.8 | 16312.6 |
| 40° | 18232.6 | 18163.5 | 18487.9 | 18541.1 | 18408.1 | 17477.3 | 16445.5 | 17094.4 | 17652.9 | 18046.4 | 17445.4 |
| 42.5° | 18477.2 | 18626.2 | 18966.6 | 19376.1 | 19078.3 | 18083.7 | 16775.3 | 17472.0 | 18716.6 | 19338.9 | 18519.8 |
| 45° | 18807.0 | 18615.6 | 19120.9 | 19870.7 | 19876.1 | 18594.3 | 17094.4 | 17982.6 | 19546.3 | 20450.6 | 19253.8 |
| 47.5° | 18471.9 | 18567.7 | 19088.9 | 20041.0 | 20285.7 | 19131.4 | 17956.0 | 18705.9 | 20461.1 | 21264.2 | 19934.6 |
| 50° | 17722.0 | 17913.5 | 18865.5 | 19854.8 | 20594.2 | 19700.6 | 18945.3 | 19487.9 | 21306.8 | 21918.5 | 20046.3 |
| 52.5° | 16940.1 | 17046.5 | 18535.8 | 19998.4 | 20732.4 | 20434.6 | 20269.7 | 20567.5 | 22338.7 | 22657.7 | 20184.6 |
| 55° | 14812.6 | 15317.9 | 17445.4 | 19934.6 | 21407.8 | 21758.9 | 21631.2 | 22067.4 | 23508.8 | 23827.9 | 20939.8 |
| 56° | 13828.7 | 14094.6 | 16791.2 | 19636.8 | 21540.9 | 22242.9 | 22179.1 | 22375.9 | 24131.0 | 24466.2 | 21056.8 |
| 57.5° | 12009.7 | 12031.0 | 14318.0 | 18317.7 | 21040.9 | 22386.5 | 22322.7 | 22477.0 | 24008.7 | 23780.0 | 20030.3 |
| 60° | 7515.4 | 7845.1 | 9743.9 | 14089.3 | 17892.2 | 20769.6 | 21131.3 | 19892.0 | 20243.1 | 19759.1 | 15583.9 |
| 62.5° | 3893.3 | 3845.5 | 5105.9 | 8238.7 | 11876.7 | 14871.1 | 15206.3 | 15147.8 | 14605.2 | 13897.9 | 10180.0 |
| 65° | 1941.4 | 1951.9 | 2670.0 | 4079.4 | 6084.6 | 7786.6 | 8722.7 | 8823.8 | 7382.4 | 6792.1 | 4829.4 |
| 67.5° | 1409.5 | 1462.6 | 1920.1 | 2494.5 | 2866.8 | 3207.2 | 3930.5 | 3856.0 | 2920.0 | 2776.4 | 2574.3 |
| 70° | 1095.7 | 1143.5 | 1558.4 | 1904.1 | 1728.6 | 1728.6 | 1882.8 | 1946.6 | 2079.6 | 2138.1 | 2207.3 |
| 72.5° | 797.8 | 835.1 | 1191.4 | 1313.7 | 1132.9 | 1218.0 | 1409.5 | 1558.4 | 1696.7 | 1718.0 | 1797.8 |
| 75° | 547.9 | 579.7 | 781.8 | 723.3 | 680.8 | 840.4 | 1031.8 | 1170.1 | 1271.2 | 1324.4 | 1372.2 |
| 77.5° | 356.3 | 367.0 | 446.8 | 377.6 | 436.1 | 542.5 | 670.2 | 787.1 | 888.2 | 930.8 | 941.4 |
| 80° | 159.6 | 175.5 | 191.4 | 239.4 | 303.2 | 388.3 | 478.6 | 574.4 | 638.2 | 654.2 | 686.1 |
| 82.5° | 90.4 | 90.4 | 117.0 | 170.2 | 223.4 | 281.9 | 345.7 | 414.8 | 489.3 | 505.3 | 499.9 |
| 85° | 47.8 | 47.8 | 69.1 | 101.1 | 138.3 | 164.9 | 159.6 | 164.9 | 175.5 | 202.1 | 196.8 |
| 87.5° | 16.0 | 16.0 | 21.3 | 21.3 | 26.6 | 31.9 | 26.6 | 37.2 | 47.8 | 47.8 | 47.8 |
| 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° | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 | 10924.7 |
| 2.5° | 10908.7 | 10956.6 | 10892.8 | 11031.1 | 11031.1 | 11004.4 | 10871.5 | 10914.0 | 10945.9 | 10945.9 | 10972.6 |
| 5° | 11116.2 | 11100.2 | 11142.7 | 10977.9 | 10876.8 | 10839.5 | 10621.5 | 10515.1 | 10424.7 | 10419.4 | 10339.6 |
| 7.5° | 11233.2 | 11190.6 | 11174.7 | 11052.3 | 10605.6 | 10334.3 | 9866.3 | 9595.0 | 9536.5 | 9329.1 | 9408.8 |
| 10° | 11419.3 | 11499.1 | 11419.3 | 10754.5 | 10132.2 | 9509.9 | 9052.5 | 8632.3 | 8467.4 | 8334.5 | 8254.7 |
| 12.5° | 11802.2 | 11765.0 | 11302.3 | 10403.4 | 9531.1 | 8791.8 | 8111.1 | 7669.6 | 7504.7 | 7387.7 | 7377.1 |
| 15° | 12126.7 | 11940.5 | 11233.2 | 9850.3 | 8595.1 | 7807.9 | 7249.4 | 6935.7 | 6861.2 | 6871.8 | 6919.7 |
| 17.5° | 12238.4 | 12110.7 | 10871.5 | 9275.9 | 7898.3 | 6972.8 | 6712.3 | 6664.3 | 6733.5 | 6813.3 | 6834.6 |
| 20° | 12413.9 | 12211.8 | 10722.6 | 8494.0 | 7036.7 | 6451.6 | 6435.6 | 6605.9 | 6733.5 | 6850.5 | 6866.4 |
| 22.5° | 12780.9 | 12270.3 | 10238.6 | 7754.7 | 6446.3 | 6297.4 | 6451.6 | 6595.2 | 6792.1 | 6887.7 | 6802.6 |
| 25° | 12887.3 | 12142.7 | 9557.8 | 6866.4 | 6074.0 | 6201.7 | 6366.5 | 6563.3 | 6701.6 | 6754.8 | 6792.1 |
| 27.5° | 12977.7 | 11945.8 | 8637.6 | 6276.1 | 5957.0 | 6196.3 | 6366.5 | 6531.4 | 6605.9 | 6653.7 | 6696.3 |
| 30° | 13233.0 | 11887.3 | 7839.8 | 5882.5 | 5882.5 | 6089.9 | 6308.0 | 6350.6 | 6451.6 | 6510.1 | 6584.6 |
| 32.5° | 13360.6 | 11483.2 | 7020.7 | 5632.5 | 5808.1 | 6143.1 | 6159.1 | 6238.9 | 6244.2 | 6292.0 | 6212.2 |
| 35° | 13695.8 | 11196.0 | 6260.2 | 5451.7 | 5839.9 | 6089.9 | 6169.7 | 6121.9 | 5861.2 | 5733.6 | 5760.2 |
| 37.5° | 13940.4 | 11052.3 | 5712.3 | 5430.4 | 5845.3 | 6148.4 | 6191.0 | 5829.4 | 5558.0 | 5345.3 | 5398.5 |
| 40° | 14599.9 | 10695.9 | 5297.5 | 5393.2 | 5893.2 | 6212.2 | 6095.3 | 5701.6 | 5212.4 | 4994.3 | 4957.0 |
| 42.5° | 15105.2 | 10440.7 | 5036.8 | 5350.6 | 5930.4 | 6302.7 | 6047.4 | 5446.4 | 4946.4 | 4744.3 | 4797.5 |
| 45° | 15690.2 | 10382.2 | 4898.5 | 5361.3 | 5994.2 | 6350.6 | 5988.9 | 5249.6 | 4717.7 | 4637.9 | 4622.0 |
| 47.5° | 15897.7 | 9962.0 | 4749.6 | 5270.8 | 5978.3 | 6334.6 | 5792.1 | 5100.7 | 4632.6 | 4643.3 | 4685.8 |
| 50° | 15551.9 | 9531.1 | 4637.9 | 5084.7 | 5871.9 | 6191.0 | 5483.6 | 4903.9 | 4584.8 | 4717.7 | 4792.2 |
| 52.5° | 15110.5 | 9089.7 | 4409.2 | 4834.7 | 5653.8 | 5967.6 | 5340.0 | 4893.2 | 4536.9 | 4494.3 | 4510.3 |
| 55° | 15243.4 | 8728.0 | 4090.1 | 4494.3 | 5302.8 | 5552.7 | 5180.4 | 4792.2 | 4419.9 | 4260.3 | 4313.5 |
| 56° | 14812.6 | 8355.7 | 3882.7 | 4281.6 | 5063.4 | 5286.8 | 5100.7 | 4701.8 | 4324.1 | 4217.8 | 4217.8 |
| 57.5° | 13594.7 | 7105.8 | 3611.4 | 3941.2 | 4558.2 | 4824.1 | 4946.4 | 4648.6 | 4217.8 | 4031.6 | 4036.9 |
| 60° | 10025.8 | 5052.8 | 3239.1 | 3473.2 | 3776.3 | 3989.1 | 4558.2 | 4499.7 | 3951.8 | 3824.2 | 3776.3 |
| 62.5° | 6180.4 | 3691.2 | 2973.2 | 3063.6 | 3217.8 | 3393.4 | 3978.4 | 4074.2 | 3669.9 | 3531.6 | 3499.7 |
| 65° | 3462.5 | 2824.3 | 2771.0 | 2808.3 | 2882.8 | 2973.2 | 3302.9 | 3515.7 | 3239.1 | 3026.4 | 3015.7 |
| 67.5° | 2531.8 | 2526.4 | 2568.9 | 2600.9 | 2632.8 | 2632.8 | 2712.5 | 2797.7 | 2760.4 | 2590.2 | 2574.3 |
| 70° | 2249.8 | 2265.8 | 2297.7 | 2303.0 | 2313.6 | 2276.4 | 2212.6 | 2186.0 | 2228.6 | 2122.2 | 2100.9 |
| 72.5° | 1856.3 | 1909.4 | 1946.6 | 1951.9 | 1893.5 | 1845.6 | 1760.5 | 1670.1 | 1638.2 | 1616.9 | 1611.6 |
| 75° | 1425.5 | 1462.6 | 1478.6 | 1473.3 | 1452.0 | 1382.9 | 1281.8 | 1191.4 | 1132.9 | 1069.0 | 1101.0 |
| 77.5° | 962.7 | 1015.9 | 1042.5 | 1042.5 | 1010.5 | 904.2 | 856.3 | 787.1 | 728.7 | 659.5 | 670.2 |
| 80° | 675.5 | 712.7 | 755.3 | 750.0 | 696.8 | 643.5 | 574.4 | 510.6 | 462.8 | 409.5 | 404.2 |
| 82.5° | 505.3 | 526.6 | 547.9 | 537.2 | 499.9 | 446.8 | 398.9 | 340.4 | 287.2 | 250.0 | 250.0 |
| 85° | 180.9 | 196.8 | 239.4 | 250.0 | 271.2 | 271.2 | 228.7 | 191.4 | 154.3 | 127.6 | 127.6 |
| 87.5° | 53.2 | 53.2 | 58.5 | 58.5 | 53.2 | 58.5 | 47.8 | 53.2 | 58.5 | 37.2 | 37.2 |
| 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)