

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: STREETWORKS

Report Number: P192865

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL3-7030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28106.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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: 28.75 FT

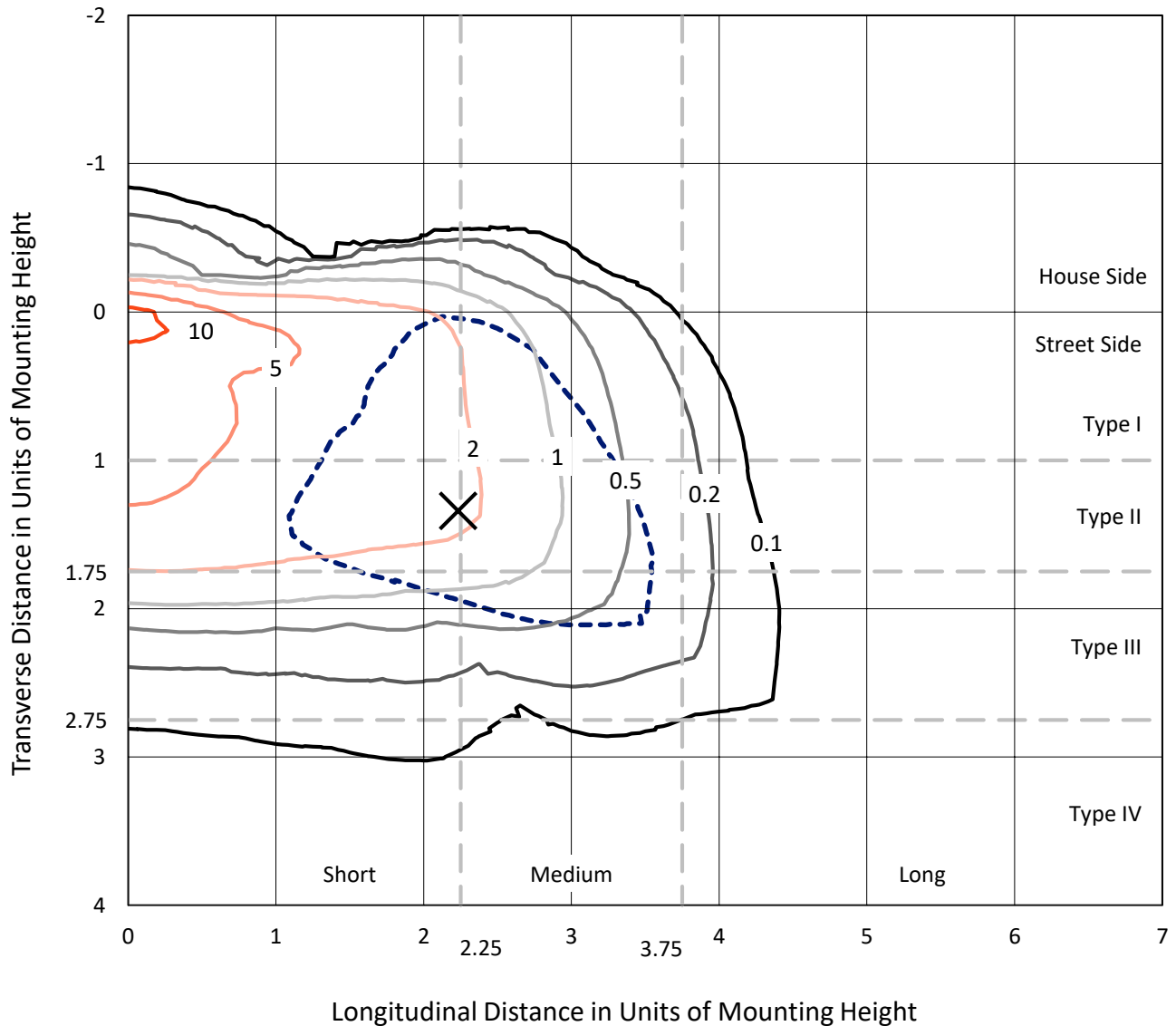


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

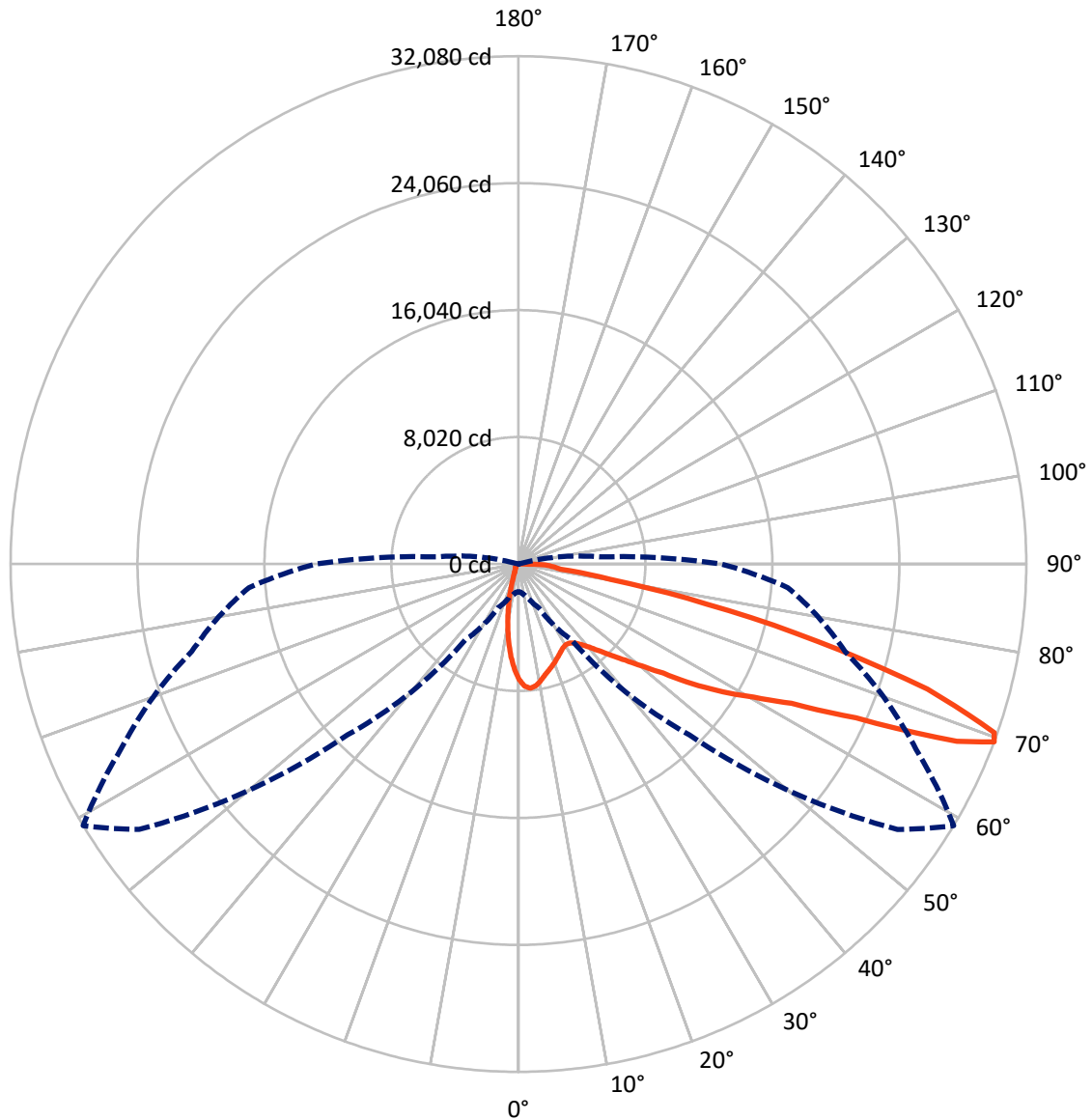


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2288.9 | 0.0 | 2288.9 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 25818.0 | 0.0 | 25818.0 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 28106.9 | 0.0 | 28106.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 593.8 | 2.1 |
| 10°-20° | 1227.0 | 4.4 |
| 20°-30° | 1651.1 | 5.9 |
| 30°-40° | 2397.3 | 8.5 |
| 40°-50° | 3991.7 | 14.2 |
| 50°-60° | 6227.0 | 22.2 |
| 60°-70° | 7705.4 | 27.4 |
| 70°-80° | 3905.0 | 13.9 |
| 80°-90° | 408.6 | 1.5 |
| 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° | 28106.9 | 100.0 |
| 0°-180° | 28106.9 | 100.0 |

Coefficient of Utilization



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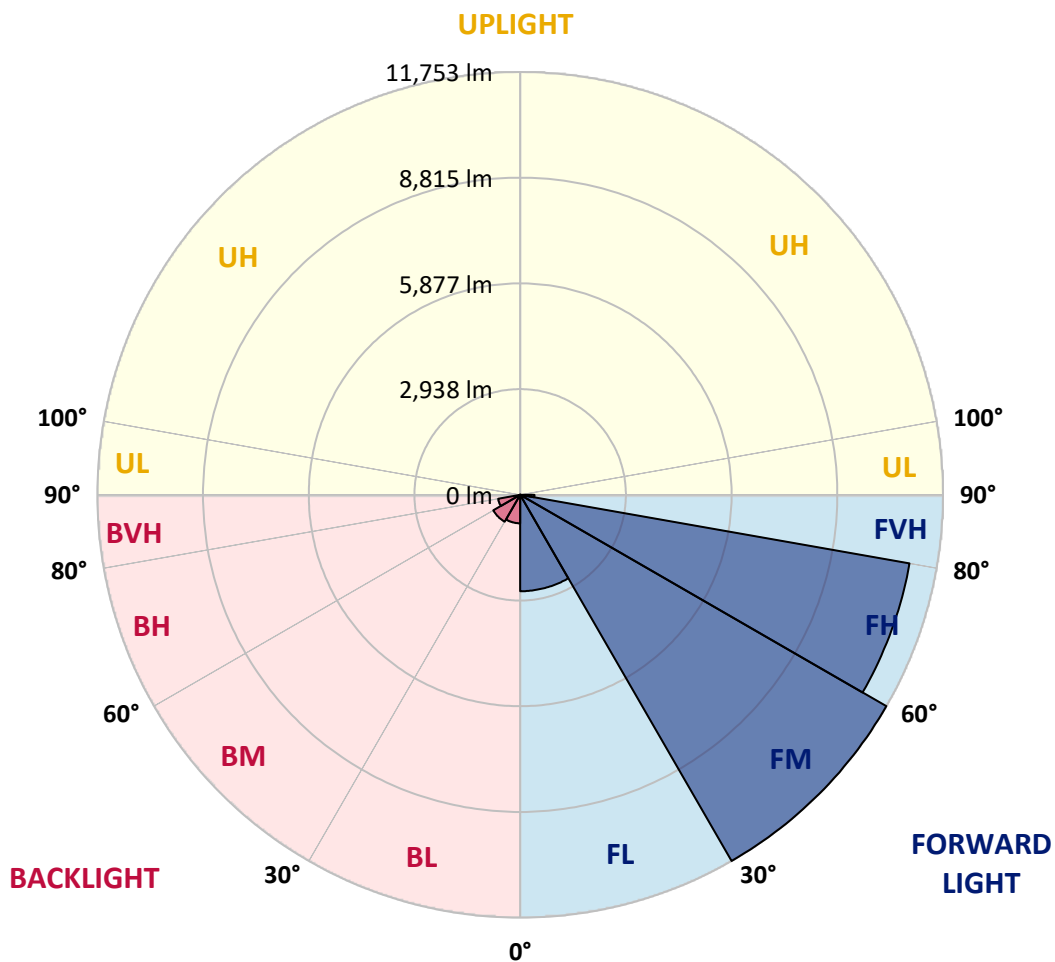
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2679.7 | 9.5 | | | |
| FM (30°-60°) | 11753.5 | 41.8 | | | |
| FH (60°-80°) | 10988.8 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 396.0 | 1.4 | | | G3/500 |
| BL (0°-30°) | 792.3 | 2.8 | B2/1000 | | |
| BM (30°-60°) | 862.5 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 621.6 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 12.6 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 |
| 2.5° | 8018.3 | 8015.2 | 7980.2 | 7964.4 | 7935.7 | 7875.3 | 7781.6 | 7732.3 | 7652.8 | 7514.6 | 7328.6 |
| 5° | 7945.3 | 7983.3 | 8004.0 | 8005.7 | 8026.3 | 8004.0 | 7919.7 | 7878.4 | 7768.8 | 7546.3 | 7212.5 |
| 7.5° | 7449.4 | 7463.6 | 7522.5 | 7573.3 | 7671.8 | 7765.6 | 7795.8 | 7778.3 | 7713.1 | 7474.8 | 7031.4 |
| 10° | 6918.6 | 6932.8 | 7002.8 | 7069.5 | 7203.0 | 7347.6 | 7500.2 | 7532.0 | 7559.0 | 7373.1 | 6856.6 |
| 12.5° | 6460.7 | 6475.0 | 6546.6 | 6634.0 | 6789.8 | 6967.8 | 7204.5 | 7257.0 | 7376.2 | 7276.1 | 6716.6 |
| 15° | 6066.6 | 6072.9 | 6142.9 | 6250.9 | 6436.9 | 6665.8 | 6934.3 | 7018.6 | 7201.4 | 7207.8 | 6594.3 |
| 17.5° | 5731.3 | 5747.1 | 5790.0 | 5893.3 | 6096.7 | 6379.7 | 6692.7 | 6813.6 | 7028.2 | 7150.6 | 6475.0 |
| 20° | 5526.3 | 5542.0 | 5540.5 | 5597.8 | 5780.5 | 6082.5 | 6451.2 | 6595.9 | 6856.6 | 7091.8 | 6368.6 |
| 22.5° | 5486.5 | 5486.5 | 5445.2 | 5437.2 | 5545.4 | 5798.0 | 6200.1 | 6376.5 | 6702.4 | 7066.4 | 6293.9 |
| 25° | 5628.0 | 5621.6 | 5518.2 | 5434.0 | 5438.8 | 5589.8 | 5957.0 | 6166.7 | 6572.1 | 7083.9 | 6254.1 |
| 27.5° | 5926.8 | 5918.8 | 5788.4 | 5628.0 | 5499.2 | 5497.6 | 5772.6 | 5998.3 | 6468.7 | 7166.5 | 6270.1 |
| 30° | 6340.0 | 6336.8 | 6195.3 | 5993.5 | 5759.8 | 5545.4 | 5709.1 | 5913.9 | 6401.9 | 7315.9 | 6306.6 |
| 32.5° | 6791.3 | 6786.6 | 6680.1 | 6467.2 | 6171.5 | 5759.8 | 5775.8 | 5947.4 | 6421.0 | 7514.6 | 6395.6 |
| 35° | 7269.8 | 7261.8 | 7215.7 | 7029.7 | 6703.9 | 6155.6 | 5995.0 | 6128.6 | 6541.8 | 7811.7 | 6570.5 |
| 37.5° | 7787.9 | 7795.8 | 7829.2 | 7651.2 | 7309.5 | 6710.2 | 6362.2 | 6452.9 | 6785.0 | 8215.4 | 6854.9 |
| 40° | 8552.4 | 8550.7 | 8561.9 | 8328.3 | 7999.3 | 7388.9 | 6875.5 | 6904.2 | 7191.9 | 8751.0 | 7287.3 |
| 42.5° | 9939.9 | 9842.9 | 9548.9 | 9072.2 | 8741.5 | 8164.6 | 7522.5 | 7492.2 | 7689.3 | 9413.8 | 7892.8 |
| 45° | 11804.3 | 11597.7 | 10834.7 | 9920.8 | 9498.0 | 9038.7 | 8318.8 | 8221.8 | 8347.3 | 10210.1 | 8639.7 |
| 47.5° | 13407.9 | 13193.3 | 12114.1 | 10804.5 | 10300.6 | 9868.4 | 9251.7 | 9076.8 | 9118.2 | 11101.8 | 9587.1 |
| 50° | 13953.1 | 13848.2 | 12905.6 | 11573.8 | 11077.9 | 10912.6 | 10334.1 | 10121.1 | 10062.2 | 12133.2 | 10685.3 |
| 52.5° | 13763.9 | 13756.0 | 13128.1 | 12072.8 | 11789.9 | 11993.4 | 11696.1 | 11449.9 | 11233.6 | 13220.4 | 11802.6 |
| 55° | 13460.3 | 13500.1 | 13218.7 | 12509.8 | 12500.4 | 12980.3 | 13558.8 | 13353.8 | 12727.6 | 14401.3 | 12765.8 |
| 57.5° | 12622.7 | 12792.8 | 13167.9 | 13336.4 | 13727.4 | 14218.5 | 15110.1 | 15230.8 | 14490.3 | 15305.6 | 13565.2 |
| 60° | 10241.9 | 10615.4 | 11842.4 | 13455.6 | 15308.8 | 16532.6 | 16982.3 | 17085.6 | 15936.5 | 16057.4 | 14644.4 |
| 62.5° | 7269.8 | 7651.2 | 9207.2 | 11936.1 | 15332.6 | 19573.0 | 19771.7 | 19366.4 | 17529.1 | 17171.5 | 16505.6 |
| 65° | 3858.9 | 4153.1 | 5424.5 | 8615.9 | 13293.5 | 20278.7 | 24649.4 | 23441.6 | 20339.1 | 19363.3 | 18910.3 |
| 67.5° | 1974.0 | 2063.1 | 2568.4 | 4216.6 | 9138.9 | 18012.3 | 29021.8 | 29872.1 | 25181.8 | 21537.5 | 18794.2 |
| 69° | 1746.7 | 1799.2 | 2134.5 | 3048.5 | 5852.0 | 15256.3 | 29234.8 | 32079.7 | 27717.0 | 21356.3 | 17079.3 |
| 70° | 1691.2 | 1737.2 | 2042.4 | 2759.2 | 4574.2 | 12794.4 | 28419.4 | 31885.9 | 28365.5 | 20666.5 | 15798.4 |
| 72.5° | 1435.2 | 1474.9 | 1818.2 | 2438.1 | 3717.5 | 6351.1 | 23085.5 | 27019.2 | 25453.7 | 17216.0 | 11435.5 |
| 75° | 960.0 | 1090.3 | 1745.1 | 2285.4 | 3458.5 | 3607.8 | 15219.9 | 19525.4 | 18137.8 | 11611.8 | 5957.0 |
| 77.5° | 230.4 | 247.9 | 492.6 | 1818.2 | 3162.8 | 3175.5 | 7827.7 | 12137.9 | 9900.2 | 4138.7 | 1408.2 |
| 80° | 124.0 | 119.2 | 138.3 | 360.8 | 2945.1 | 2980.0 | 3523.6 | 5891.8 | 3534.7 | 686.5 | 464.2 |
| 82.5° | 87.4 | 82.6 | 89.0 | 151.0 | 926.6 | 2714.6 | 2549.3 | 2666.9 | 1465.3 | 263.9 | 208.2 |
| 85° | 31.8 | 30.1 | 49.2 | 136.7 | 290.8 | 1560.8 | 2619.3 | 2199.7 | 1187.2 | 120.8 | 152.5 |
| 87.5° | 11.2 | 9.5 | 19.1 | 74.8 | 89.0 | 664.4 | 1616.4 | 1662.5 | 467.3 | 73.1 | 71.6 |
| 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° | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 | 7315.9 |
| 2.5° | 7250.7 | 7152.1 | 6971.0 | 6785.0 | 6613.4 | 6406.8 | 6303.3 | 6201.7 | 6158.8 | 6142.9 | 6068.2 |
| 5° | 7040.8 | 6874.0 | 6489.4 | 6103.1 | 5747.1 | 5368.9 | 5119.4 | 4919.1 | 4801.5 | 4744.2 | 4653.7 |
| 7.5° | 6772.3 | 6499.0 | 5915.7 | 5319.7 | 4764.9 | 4218.2 | 3812.9 | 3501.3 | 3286.8 | 3183.5 | 3089.8 |
| 10° | 6511.7 | 6147.7 | 5317.9 | 4505.9 | 3752.5 | 3027.8 | 2468.2 | 2063.1 | 1804.0 | 1684.8 | 1608.4 |
| 12.5° | 6278.0 | 5805.9 | 4741.1 | 3712.7 | 2767.1 | 1918.4 | 1349.4 | 1026.7 | 866.2 | 810.6 | 783.6 |
| 15° | 6069.8 | 5491.3 | 4195.9 | 2959.4 | 1873.9 | 1096.6 | 737.5 | 627.8 | 602.3 | 602.3 | 599.2 |
| 17.5° | 5872.6 | 5182.9 | 3669.8 | 2252.2 | 1176.1 | 670.8 | 561.0 | 546.8 | 546.8 | 553.1 | 553.1 |
| 20° | 5683.5 | 4889.0 | 3161.2 | 1616.4 | 740.7 | 532.4 | 507.0 | 503.8 | 507.0 | 514.9 | 514.9 |
| 22.5° | 5521.4 | 4621.8 | 2686.0 | 1109.4 | 549.9 | 479.9 | 467.3 | 462.5 | 464.2 | 468.8 | 472.0 |
| 25° | 5400.6 | 4396.1 | 2237.8 | 751.8 | 473.6 | 437.0 | 422.8 | 414.8 | 408.5 | 408.5 | 411.7 |
| 27.5° | 5324.4 | 4205.5 | 1804.0 | 546.8 | 426.0 | 397.3 | 375.1 | 362.4 | 348.1 | 340.2 | 343.3 |
| 30° | 5268.7 | 4024.2 | 1397.1 | 446.7 | 381.5 | 352.8 | 324.3 | 303.5 | 282.9 | 273.3 | 276.5 |
| 32.5° | 5248.0 | 3878.0 | 1044.2 | 394.2 | 341.8 | 310.0 | 275.0 | 247.9 | 225.7 | 217.8 | 219.3 |
| 35° | 5303.7 | 3762.1 | 764.5 | 355.9 | 310.0 | 270.2 | 230.4 | 200.3 | 182.8 | 178.0 | 179.6 |
| 37.5° | 5450.0 | 3700.1 | 572.2 | 324.3 | 281.4 | 236.8 | 192.3 | 163.7 | 152.5 | 152.5 | 154.2 |
| 40° | 5726.5 | 3698.4 | 459.3 | 302.0 | 255.8 | 205.1 | 159.0 | 138.3 | 131.8 | 135.1 | 136.7 |
| 42.5° | 6130.2 | 3782.7 | 400.6 | 281.4 | 233.6 | 174.9 | 131.8 | 117.6 | 116.1 | 119.2 | 120.8 |
| 45° | 6681.6 | 3936.8 | 368.8 | 263.9 | 209.8 | 146.2 | 111.2 | 101.7 | 101.7 | 106.5 | 108.0 |
| 47.5° | 7357.2 | 4162.6 | 341.8 | 246.4 | 186.0 | 122.4 | 95.4 | 89.0 | 90.5 | 95.4 | 96.9 |
| 50° | 8171.0 | 4447.1 | 314.6 | 227.3 | 168.5 | 101.7 | 82.6 | 77.9 | 79.4 | 85.9 | 87.4 |
| 52.5° | 9097.6 | 4830.2 | 292.5 | 209.8 | 146.2 | 84.2 | 69.9 | 66.7 | 69.9 | 76.3 | 77.9 |
| 55° | 9892.3 | 5173.4 | 265.4 | 195.5 | 117.6 | 69.9 | 57.3 | 57.3 | 60.4 | 68.4 | 69.9 |
| 57.5° | 10656.7 | 5532.6 | 241.6 | 168.5 | 92.3 | 55.6 | 47.6 | 49.2 | 54.1 | 62.0 | 63.6 |
| 60° | 11778.8 | 6141.4 | 212.9 | 141.5 | 69.9 | 44.5 | 39.8 | 41.3 | 47.6 | 55.6 | 57.3 |
| 62.5° | 13684.4 | 7067.9 | 184.3 | 117.6 | 54.1 | 35.0 | 31.8 | 35.0 | 42.9 | 52.5 | 54.1 |
| 65° | 15404.1 | 7444.6 | 151.0 | 98.6 | 41.3 | 27.0 | 27.0 | 31.8 | 41.3 | 50.8 | 52.5 |
| 67.5° | 14445.7 | 6266.9 | 117.6 | 77.9 | 31.8 | 20.6 | 22.3 | 30.1 | 39.8 | 50.8 | 52.5 |
| 69° | 12775.3 | 5124.2 | 100.1 | 62.0 | 27.0 | 19.1 | 20.6 | 30.1 | 39.8 | 49.2 | 50.8 |
| 70° | 11473.7 | 4326.2 | 89.0 | 52.5 | 23.8 | 19.1 | 20.6 | 28.6 | 39.8 | 49.2 | 50.8 |
| 72.5° | 7684.5 | 2336.4 | 71.6 | 38.1 | 22.3 | 17.5 | 17.5 | 28.6 | 38.1 | 47.6 | 49.2 |
| 75° | 3302.7 | 645.2 | 57.3 | 27.0 | 19.1 | 15.9 | 15.9 | 27.0 | 36.6 | 46.1 | 49.2 |
| 77.5° | 603.9 | 163.7 | 46.1 | 23.8 | 19.1 | 15.9 | 14.3 | 25.4 | 35.0 | 44.5 | 46.1 |
| 80° | 240.1 | 81.1 | 36.6 | 20.6 | 17.5 | 14.3 | 12.7 | 23.8 | 33.4 | 42.9 | 44.5 |
| 82.5° | 144.7 | 46.1 | 30.1 | 19.1 | 17.5 | 12.7 | 11.2 | 20.6 | 31.8 | 41.3 | 42.9 |
| 85° | 117.6 | 31.8 | 23.8 | 19.1 | 15.9 | 12.7 | 9.5 | 19.1 | 28.6 | 39.8 | 41.3 |
| 87.5° | 57.3 | 22.3 | 22.3 | 17.5 | 15.9 | 12.7 | 9.5 | 17.5 | 27.0 | 38.1 | 39.8 |
| 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)