

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: P456935

Luminaire Tested: **GLAN-SA8B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456935
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: STREETWORKS
Catalog Number: GLAN-SA8B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 28726 lumens
Efficiency: N/A
Efficacy: 88.4 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

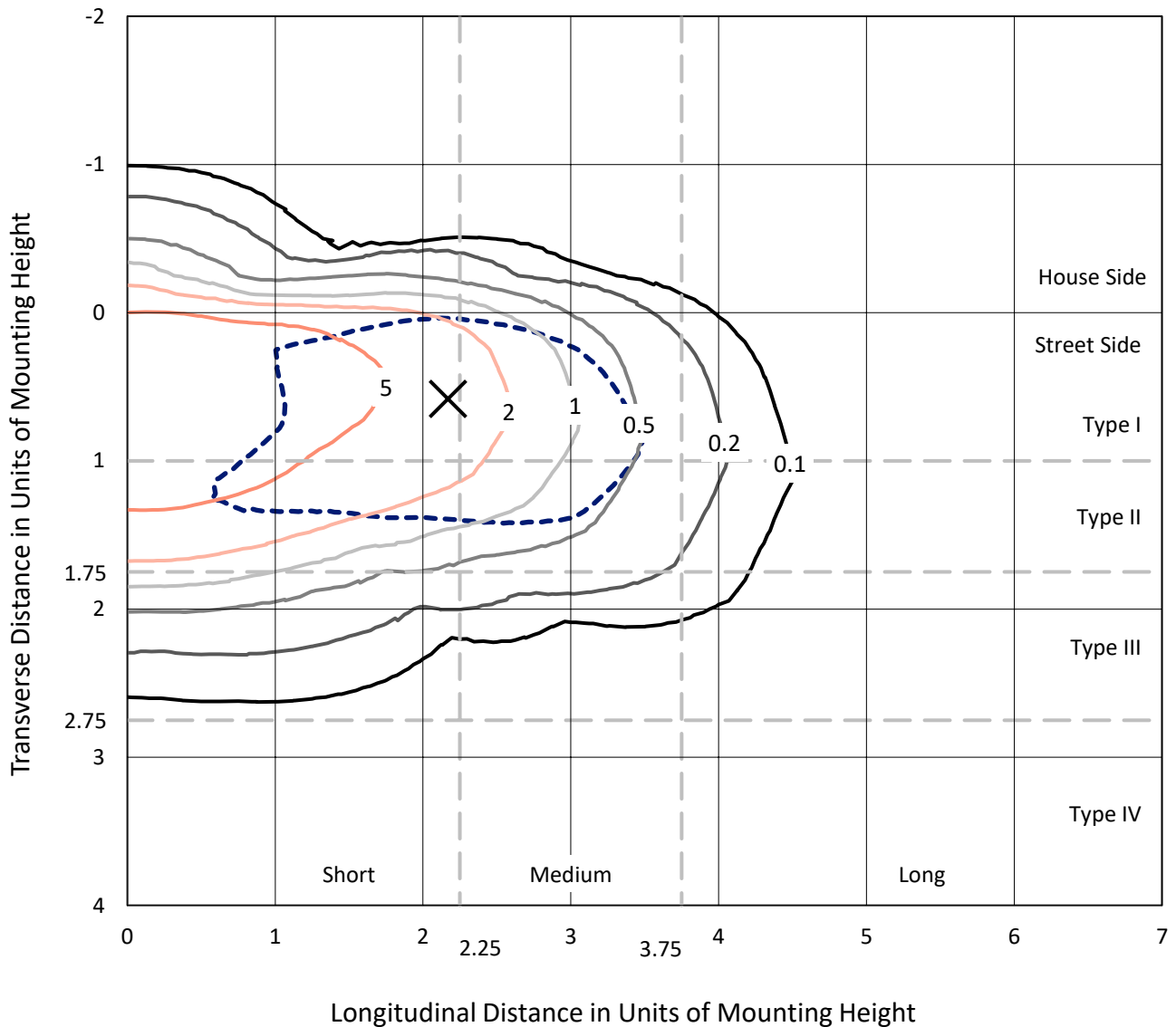
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

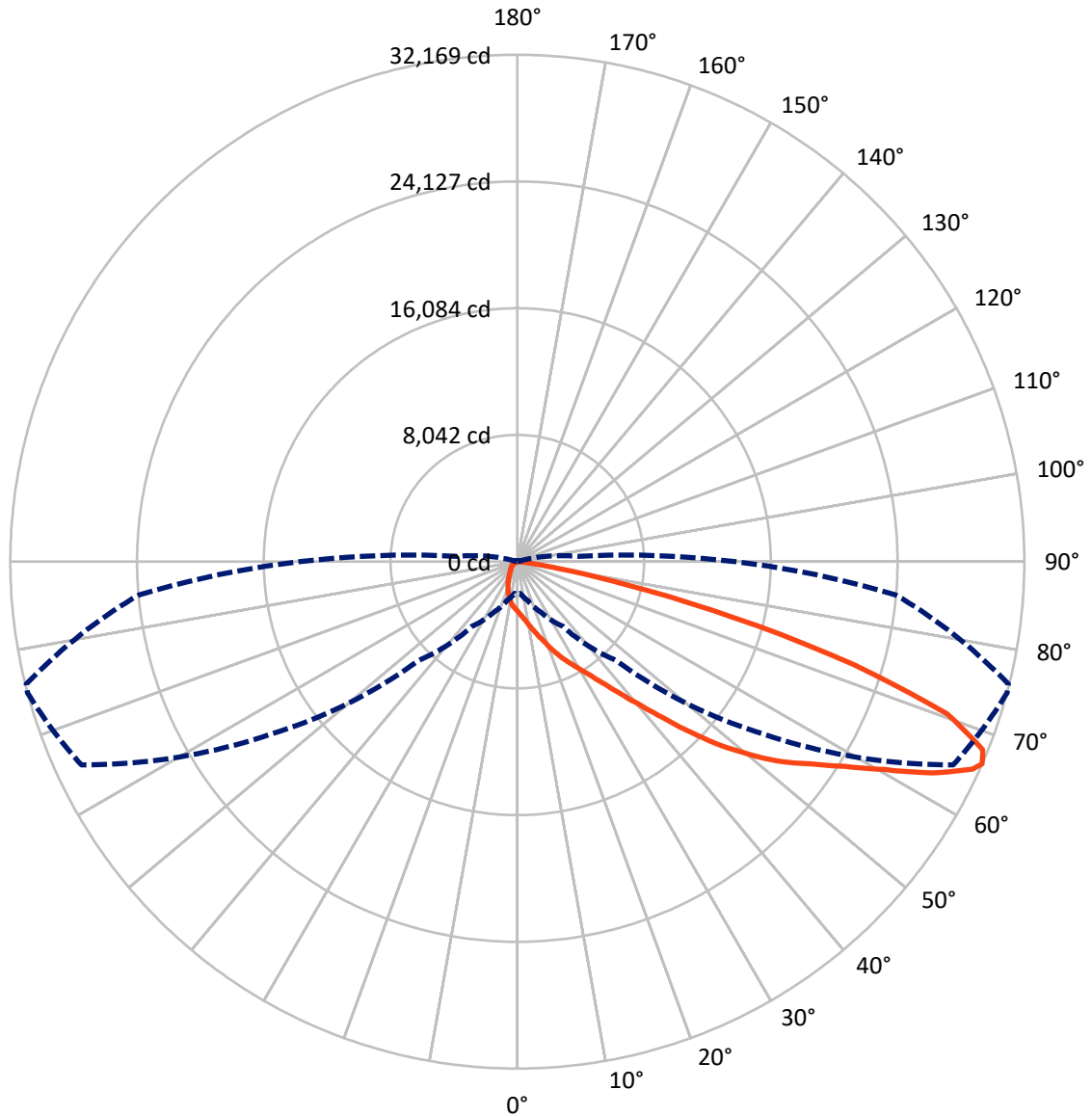
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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 | 1773.4 | 0.0 | 1773.4 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 26952.6 | 0.0 | 26952.6 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 28726.0 | 0.0 | 28726.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.0 | 1.1 |
| 10°-20° | 891.7 | 3.1 |
| 20°-30° | 1539.8 | 5.4 |
| 30°-40° | 2777.6 | 9.7 |
| 40°-50° | 5017.7 | 17.5 |
| 50°-60° | 7822.7 | 27.2 |
| 60°-70° | 7431.2 | 25.9 |
| 70°-80° | 2785.0 | 9.7 |
| 80°-90° | 157.1 | 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° | 28726.0 | 100.0 |
| 0°-180° | 28726.0 | 100.0 |



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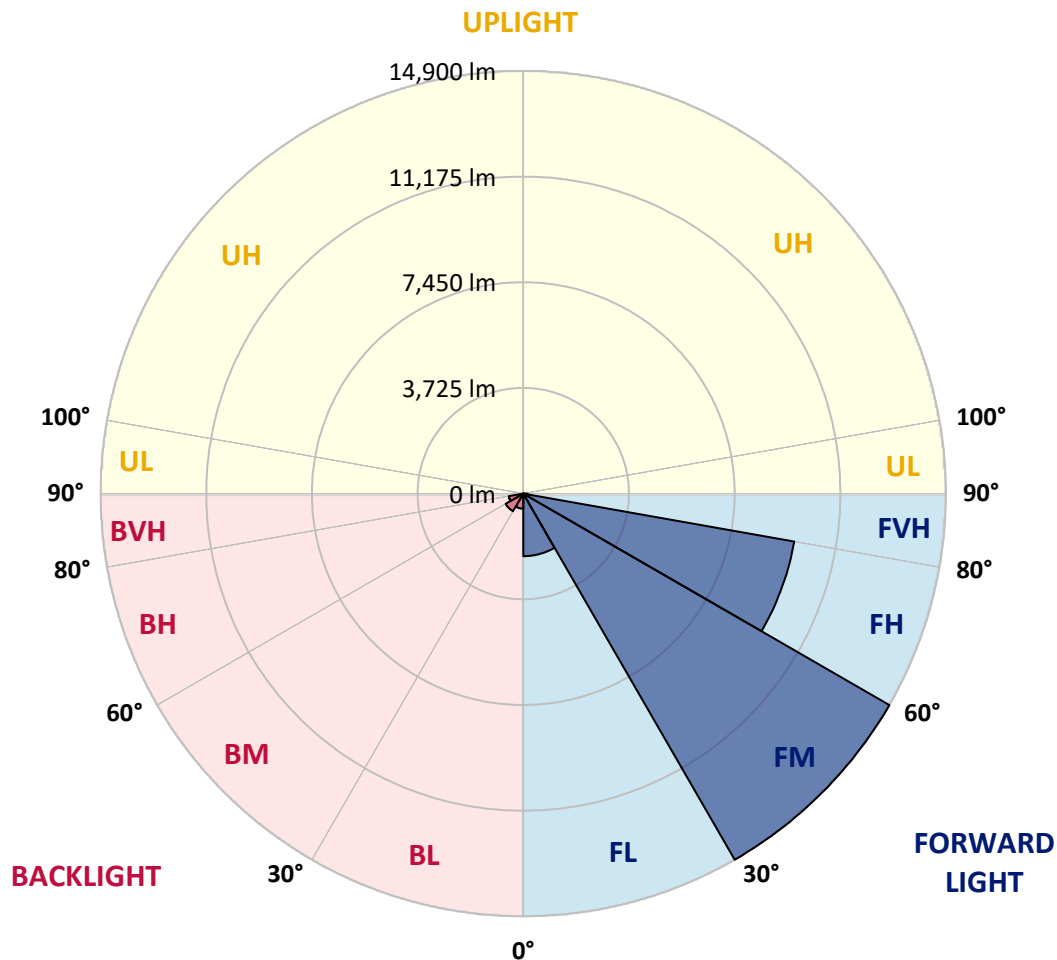
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2205.0 | 7.7 | | | |
| FM (30°-60°) | 14900.2 | 51.9 | | | |
| FH (60°-80°) | 9698.4 | 33.8 | | | G4/12000 |
| FVH (80°-90°) | 149.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 529.6 | 1.8 | B2/1000 | | |
| BM (30°-60°) | 717.8 | 2.5 | B1/1000 | | |
| BH (60°-80°) | 517.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.1 | 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° | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 |
| 2.5° | 3753.2 | 3706.5 | 3721.3 | 3700.1 | 3651.2 | 3579.0 | 3515.3 | 3424.0 | 3332.6 | 3317.8 | 3215.8 |
| 5° | 4248.1 | 4235.4 | 4218.4 | 4156.8 | 4122.8 | 4012.3 | 3880.6 | 3723.5 | 3534.4 | 3500.4 | 3315.6 |
| 7.5° | 4585.8 | 4579.5 | 4588.0 | 4556.1 | 4526.4 | 4426.5 | 4286.3 | 4071.8 | 3778.7 | 3759.6 | 3451.6 |
| 10° | 4696.3 | 4713.3 | 4745.1 | 4796.1 | 4842.8 | 4811.0 | 4704.8 | 4437.1 | 4095.2 | 4039.9 | 3606.6 |
| 12.5° | 4632.6 | 4651.7 | 4728.1 | 4864.1 | 5014.9 | 5102.0 | 5059.5 | 4864.1 | 4430.8 | 4386.2 | 3780.8 |
| 15° | 4469.0 | 4492.4 | 4600.7 | 4811.0 | 5080.7 | 5327.1 | 5433.3 | 5293.1 | 4821.6 | 4749.4 | 3991.1 |
| 17.5° | 4226.9 | 4260.8 | 4415.9 | 4694.2 | 5063.7 | 5488.5 | 5788.0 | 5741.3 | 5237.9 | 5169.9 | 4220.5 |
| 20° | 4044.2 | 4069.7 | 4201.4 | 4520.0 | 4991.5 | 5577.8 | 6125.8 | 6257.5 | 5751.9 | 5635.1 | 4490.2 |
| 22.5° | 4165.3 | 4173.8 | 4218.4 | 4409.5 | 4862.0 | 5601.1 | 6423.1 | 6794.8 | 6297.8 | 6193.7 | 4770.6 |
| 25° | 4757.9 | 4672.9 | 4628.3 | 4585.8 | 4834.3 | 5579.9 | 6692.9 | 7355.6 | 6841.6 | 6731.1 | 5048.9 |
| 27.5° | 5692.5 | 5654.2 | 5429.1 | 5127.5 | 5070.1 | 5607.5 | 6871.3 | 7886.6 | 7353.5 | 7234.5 | 5320.7 |
| 30° | 6709.9 | 6644.0 | 6506.0 | 6064.2 | 5620.2 | 5802.9 | 7000.9 | 8402.7 | 7958.8 | 7801.6 | 5569.3 |
| 32.5° | 7644.5 | 7686.9 | 7480.9 | 7026.4 | 6512.3 | 6219.2 | 7168.7 | 8965.6 | 8653.4 | 8458.0 | 5858.1 |
| 35° | 8734.1 | 8819.1 | 8502.6 | 8067.1 | 7466.0 | 6971.1 | 7495.8 | 9600.7 | 9534.9 | 9288.5 | 6304.2 |
| 37.5° | 9840.7 | 9891.7 | 9698.4 | 9086.7 | 8545.1 | 7927.0 | 8111.8 | 10384.5 | 10620.3 | 10410.0 | 6837.3 |
| 40° | 10771.1 | 10841.2 | 10698.8 | 10155.1 | 9577.3 | 9033.6 | 9006.0 | 11238.4 | 11911.7 | 11695.0 | 7631.7 |
| 42.5° | 11482.6 | 11535.7 | 11540.0 | 11155.5 | 10635.1 | 10388.7 | 10146.6 | 12328.0 | 13530.2 | 13279.6 | 8553.6 |
| 45° | 12381.1 | 12457.6 | 12413.0 | 12151.7 | 11763.0 | 11718.4 | 11593.1 | 13644.9 | 15467.3 | 15150.9 | 9749.4 |
| 47.5° | 13770.2 | 13821.2 | 13710.8 | 13402.8 | 13007.7 | 13077.8 | 13003.4 | 15121.1 | 17442.7 | 17170.8 | 10987.7 |
| 50° | 14734.5 | 14819.5 | 14976.7 | 15099.9 | 14813.1 | 14554.0 | 14333.1 | 16499.6 | 19318.2 | 19074.0 | 12253.7 |
| 52.5° | 14723.9 | 14864.1 | 15361.1 | 15981.4 | 16608.0 | 16529.4 | 15894.3 | 18022.6 | 21108.8 | 20807.2 | 13443.1 |
| 55° | 13732.0 | 14003.9 | 14734.5 | 15834.8 | 17570.2 | 18434.6 | 18145.8 | 19785.5 | 22655.1 | 22451.2 | 14821.6 |
| 57.5° | 11684.4 | 11850.1 | 12865.4 | 14403.2 | 17032.8 | 19331.0 | 20754.1 | 22175.1 | 24509.4 | 24413.8 | 16962.7 |
| 60° | 7859.0 | 7933.3 | 9239.6 | 11140.6 | 14500.9 | 18436.8 | 22665.8 | 25065.9 | 26792.8 | 26746.1 | 19462.7 |
| 62.5° | 4503.0 | 4534.8 | 5482.2 | 7085.8 | 10318.6 | 15624.5 | 22827.2 | 28632.2 | 29530.7 | 29556.2 | 22355.6 |
| 65° | 2423.5 | 2440.5 | 3205.2 | 4158.9 | 6278.7 | 11136.4 | 20526.8 | 30586.3 | 31743.9 | 31792.8 | 24148.3 |
| 66° | 2092.2 | 2011.5 | 2551.0 | 3545.0 | 4995.8 | 8863.7 | 19071.9 | 30516.2 | 32168.8 | 32115.7 | 24084.6 |
| 67.5° | 1590.9 | 1663.1 | 2037.0 | 2725.2 | 3702.2 | 6302.1 | 15745.6 | 29159.0 | 31845.9 | 31680.2 | 23105.4 |
| 70° | 1138.5 | 1168.2 | 1450.7 | 1943.5 | 2521.2 | 3458.0 | 10061.6 | 24218.4 | 28944.4 | 28721.4 | 20129.6 |
| 72.5° | 734.9 | 766.8 | 1028.0 | 1406.1 | 1822.4 | 1888.3 | 5633.0 | 17497.9 | 22315.3 | 22283.4 | 15159.4 |
| 75° | 524.6 | 554.4 | 679.7 | 1006.8 | 1370.0 | 1168.2 | 2712.4 | 11792.7 | 14186.5 | 14091.0 | 9377.7 |
| 77.5° | 380.2 | 395.1 | 454.5 | 658.5 | 979.2 | 836.9 | 1257.4 | 6297.8 | 7062.5 | 7395.9 | 4144.0 |
| 80° | 218.8 | 231.5 | 316.5 | 401.4 | 662.7 | 571.4 | 601.1 | 2527.6 | 2606.2 | 2480.9 | 1295.7 |
| 82.5° | 108.3 | 123.2 | 189.0 | 274.0 | 414.2 | 384.5 | 276.1 | 760.4 | 802.9 | 781.7 | 327.1 |
| 85° | 25.5 | 31.9 | 106.2 | 180.5 | 201.8 | 172.0 | 133.8 | 223.0 | 276.1 | 269.8 | 125.3 |
| 87.5° | 2.1 | 4.2 | 38.2 | 31.9 | 34.0 | 57.3 | 46.7 | 57.3 | 89.2 | 82.8 | 44.6 |
| 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° | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 | 3141.5 |
| 2.5° | 3169.1 | 3128.7 | 3011.9 | 2897.2 | 2801.6 | 2701.8 | 2610.5 | 2557.4 | 2536.1 | 2512.8 | 2523.4 |
| 5° | 3213.7 | 3116.0 | 2880.2 | 2676.3 | 2476.6 | 2306.7 | 2170.8 | 2083.7 | 2041.2 | 2034.8 | 2024.2 |
| 7.5° | 3273.2 | 3105.4 | 2740.0 | 2421.4 | 2160.2 | 1971.1 | 1816.1 | 1690.7 | 1652.5 | 1618.5 | 1590.9 |
| 10° | 3345.4 | 3086.2 | 2565.9 | 2153.8 | 1875.5 | 1637.6 | 1433.7 | 1285.1 | 1208.6 | 1187.3 | 1202.2 |
| 12.5° | 3421.8 | 3050.1 | 2383.2 | 1907.4 | 1586.7 | 1282.9 | 1093.9 | 1019.5 | 998.3 | 989.8 | 991.9 |
| 15° | 3498.3 | 3005.5 | 2192.0 | 1669.5 | 1263.8 | 1023.8 | 936.7 | 917.6 | 909.1 | 904.8 | 900.6 |
| 17.5° | 3568.4 | 2933.3 | 1977.5 | 1438.0 | 1023.8 | 875.1 | 843.2 | 826.3 | 809.3 | 802.9 | 792.3 |
| 20° | 3651.2 | 2850.5 | 1784.2 | 1178.8 | 866.6 | 792.3 | 754.0 | 722.2 | 696.7 | 679.7 | 677.6 |
| 22.5° | 3729.8 | 2744.3 | 1582.4 | 977.1 | 790.1 | 711.6 | 650.0 | 616.0 | 586.2 | 565.0 | 571.4 |
| 25° | 3772.3 | 2614.7 | 1401.9 | 851.7 | 720.1 | 630.8 | 562.9 | 520.4 | 488.5 | 477.9 | 475.8 |
| 27.5° | 3772.3 | 2455.4 | 1225.6 | 779.5 | 656.3 | 558.6 | 488.5 | 448.2 | 426.9 | 412.1 | 414.2 |
| 30° | 3742.6 | 2279.1 | 1062.0 | 724.3 | 601.1 | 494.9 | 429.1 | 392.9 | 376.0 | 365.3 | 363.2 |
| 32.5° | 3719.2 | 2111.3 | 921.8 | 671.2 | 543.8 | 439.7 | 382.3 | 354.7 | 337.7 | 327.1 | 327.1 |
| 35° | 3755.3 | 1966.9 | 813.5 | 618.1 | 490.7 | 397.2 | 346.2 | 320.7 | 303.7 | 295.2 | 293.1 |
| 37.5° | 3850.9 | 1835.2 | 730.7 | 560.7 | 441.8 | 361.1 | 320.7 | 291.0 | 274.0 | 263.4 | 259.1 |
| 40° | 4086.7 | 1760.8 | 669.1 | 507.6 | 395.1 | 331.4 | 291.0 | 263.4 | 242.1 | 231.5 | 229.4 |
| 42.5° | 4464.8 | 1763.0 | 609.6 | 458.8 | 359.0 | 305.9 | 265.5 | 233.6 | 210.3 | 199.7 | 197.5 |
| 45° | 5034.0 | 1843.7 | 562.9 | 412.1 | 327.1 | 278.3 | 237.9 | 203.9 | 182.7 | 172.0 | 172.0 |
| 47.5° | 5715.8 | 2000.9 | 522.5 | 371.7 | 297.4 | 252.8 | 210.3 | 176.3 | 155.1 | 146.6 | 146.6 |
| 50° | 6455.0 | 2204.8 | 482.2 | 329.2 | 271.9 | 225.1 | 180.5 | 152.9 | 135.9 | 129.6 | 129.6 |
| 52.5° | 7209.0 | 2451.2 | 441.8 | 295.2 | 244.3 | 195.4 | 155.1 | 135.9 | 121.1 | 116.8 | 114.7 |
| 55° | 8198.8 | 2765.5 | 399.3 | 259.1 | 214.5 | 167.8 | 138.1 | 118.9 | 102.0 | 95.6 | 93.5 |
| 57.5° | 9721.8 | 3239.2 | 352.6 | 227.3 | 176.3 | 140.2 | 118.9 | 99.8 | 80.7 | 70.1 | 68.0 |
| 60° | 11559.1 | 3816.9 | 303.7 | 199.7 | 142.3 | 114.7 | 95.6 | 76.5 | 59.5 | 46.7 | 44.6 |
| 62.5° | 13279.6 | 4184.4 | 257.0 | 167.8 | 112.6 | 87.1 | 68.0 | 57.3 | 42.5 | 29.7 | 27.6 |
| 65° | 14040.0 | 4061.2 | 212.4 | 135.9 | 89.2 | 61.6 | 44.6 | 40.4 | 25.5 | 12.7 | 10.6 |
| 66° | 13787.2 | 3878.5 | 195.4 | 123.2 | 80.7 | 53.1 | 38.2 | 34.0 | 19.1 | 6.4 | 6.4 |
| 67.5° | 13041.7 | 3447.3 | 169.9 | 106.2 | 70.1 | 42.5 | 29.7 | 25.5 | 10.6 | 2.1 | 0.0 |
| 70° | 11174.6 | 2788.9 | 133.8 | 78.6 | 51.0 | 29.7 | 17.0 | 12.7 | 6.4 | 0.0 | 0.0 |
| 72.5° | 8583.3 | 2077.3 | 106.2 | 59.5 | 36.1 | 17.0 | 8.5 | 4.2 | 6.4 | 0.0 | 0.0 |
| 75° | 5259.2 | 1187.3 | 82.8 | 44.6 | 23.4 | 10.6 | 6.4 | 0.0 | 6.4 | 2.1 | 0.0 |
| 77.5° | 2334.3 | 533.1 | 55.2 | 29.7 | 17.0 | 8.5 | 4.2 | 0.0 | 4.2 | 2.1 | 0.0 |
| 80° | 590.5 | 174.2 | 31.9 | 21.2 | 12.7 | 6.4 | 2.1 | 0.0 | 4.2 | 4.2 | 2.1 |
| 82.5° | 161.4 | 63.7 | 23.4 | 17.0 | 10.6 | 6.4 | 2.1 | 0.0 | 4.2 | 4.2 | 4.2 |
| 85° | 63.7 | 29.7 | 21.2 | 17.0 | 12.7 | 6.4 | 2.1 | 0.0 | 4.2 | 4.2 | 4.2 |
| 87.5° | 29.7 | 21.2 | 21.2 | 19.1 | 14.9 | 6.4 | 2.1 | 0.0 | 4.2 | 2.1 | 4.2 |
| 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)