

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: P454314

Luminaire Tested: **GLAN-SA5B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18532 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

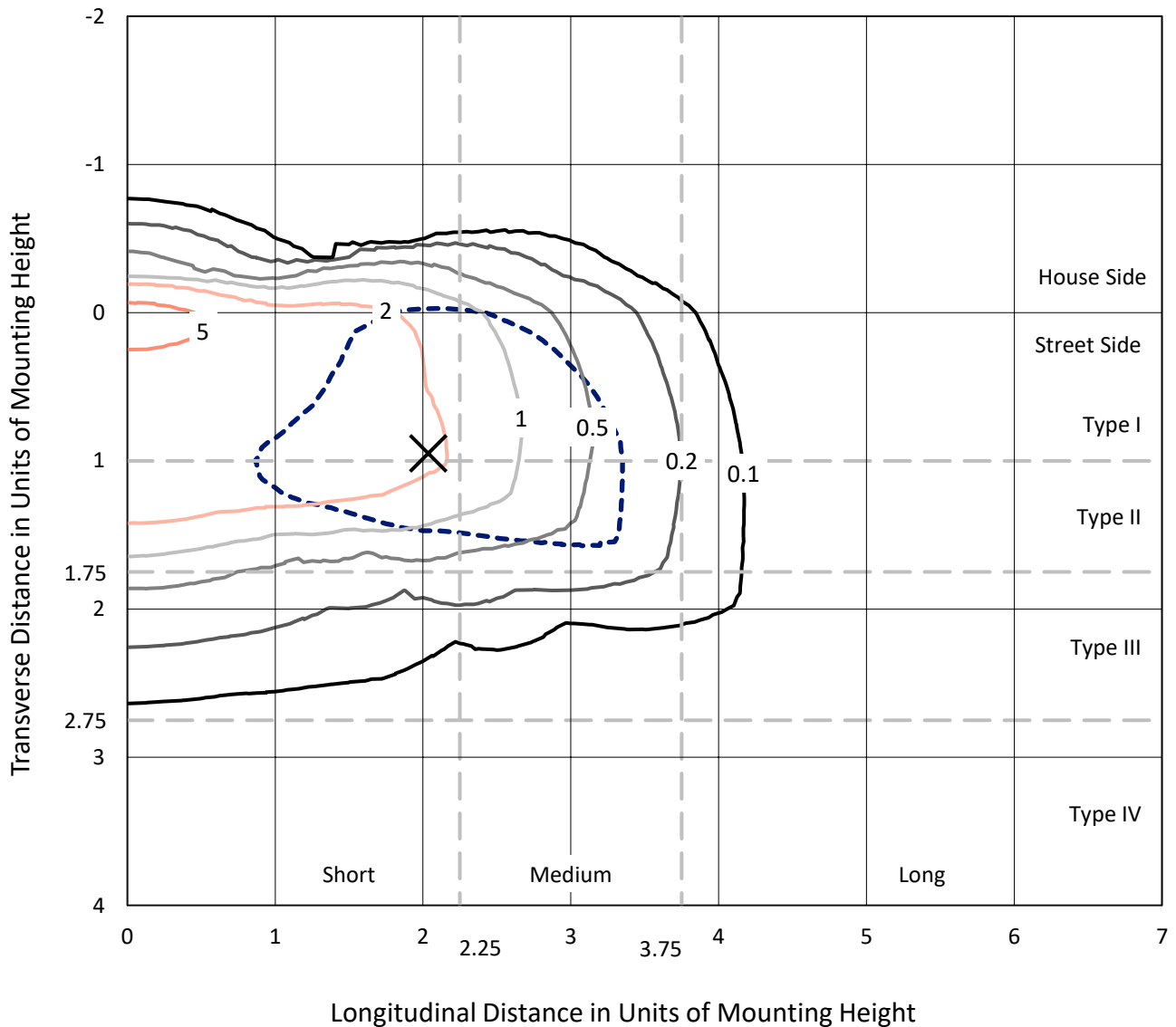
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

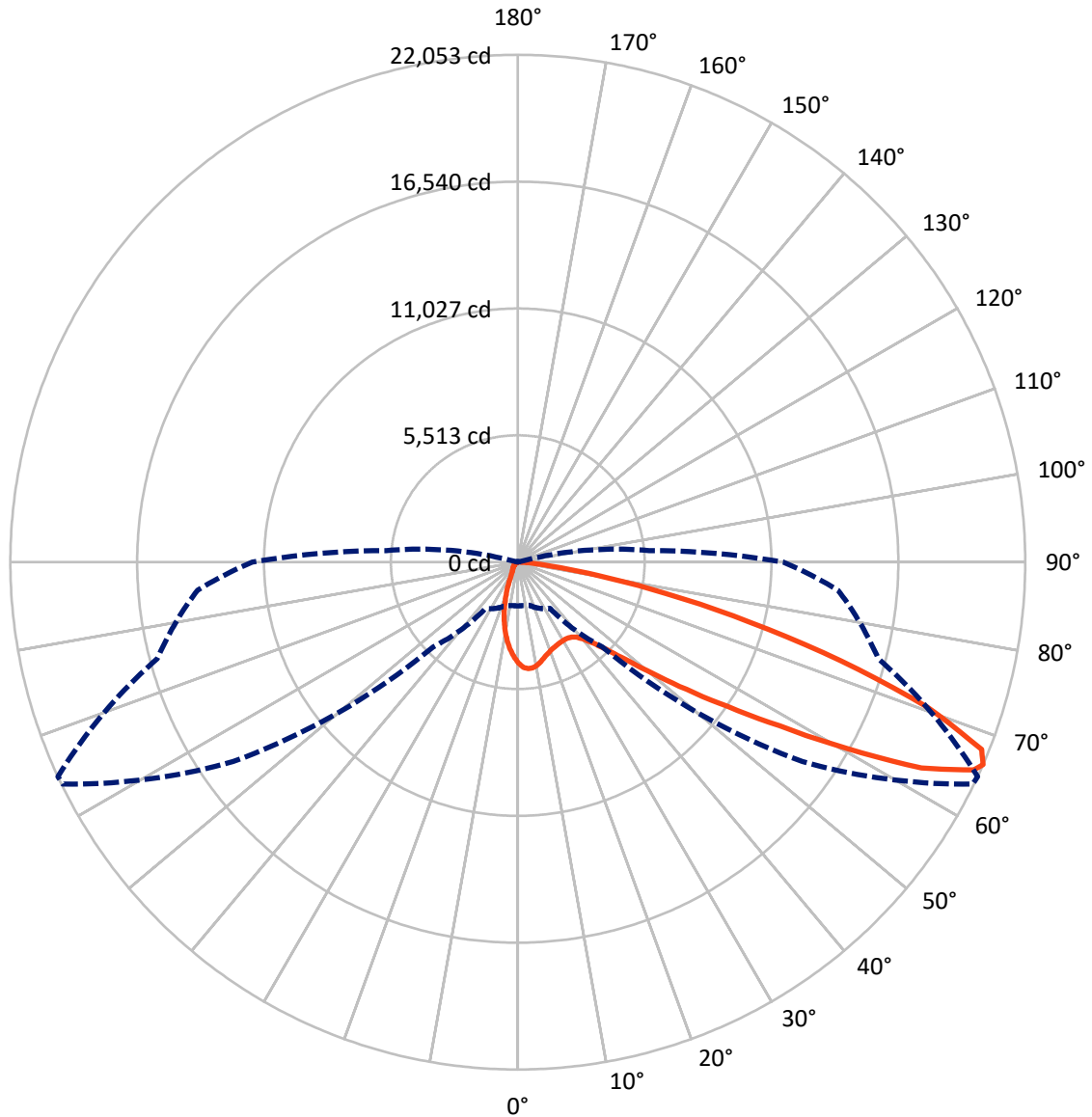
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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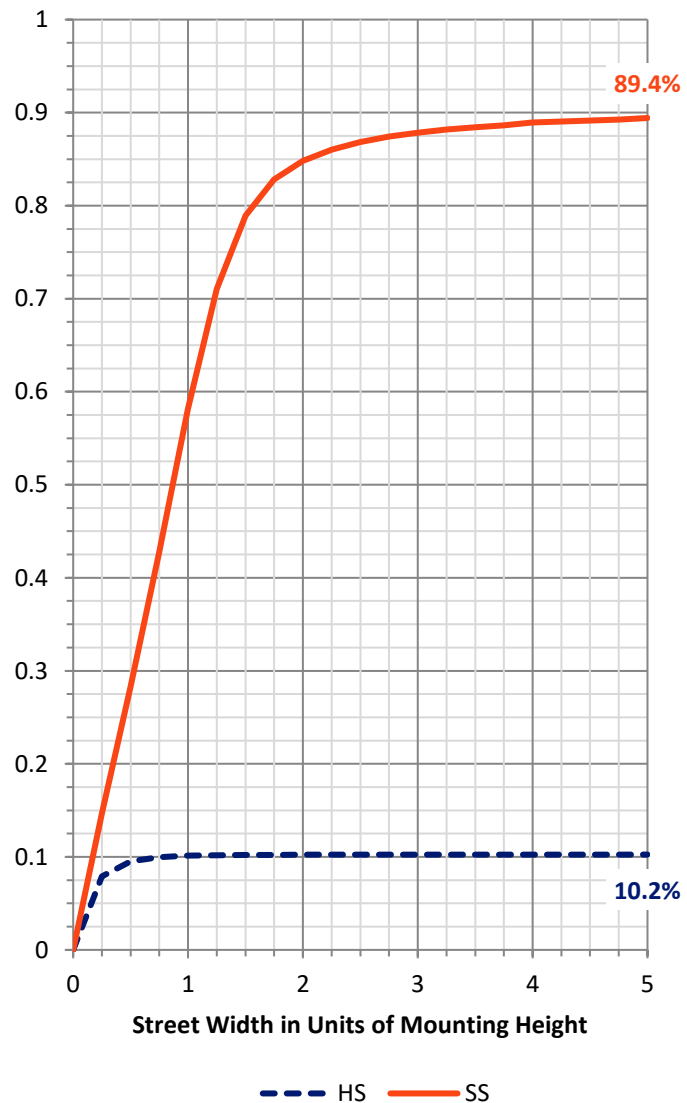
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1916.5 | 0.0 | 1916.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 16615.5 | 0.0 | 16615.5 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 18532.0 | 0.0 | 18532.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 359.4 | 1.9 |
| 10°-20° | 783.1 | 4.2 |
| 20°-30° | 1121.8 | 6.1 |
| 30°-40° | 1638.5 | 8.8 |
| 40°-50° | 2747.5 | 14.8 |
| 50°-60° | 4585.1 | 24.7 |
| 60°-70° | 4866.9 | 26.3 |
| 70°-80° | 2204.2 | 11.9 |
| 80°-90° | 225.5 | 1.2 |
| 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° | 18532.0 | 100.0 |
| 0°-180° | 18532.0 | 100.0 |



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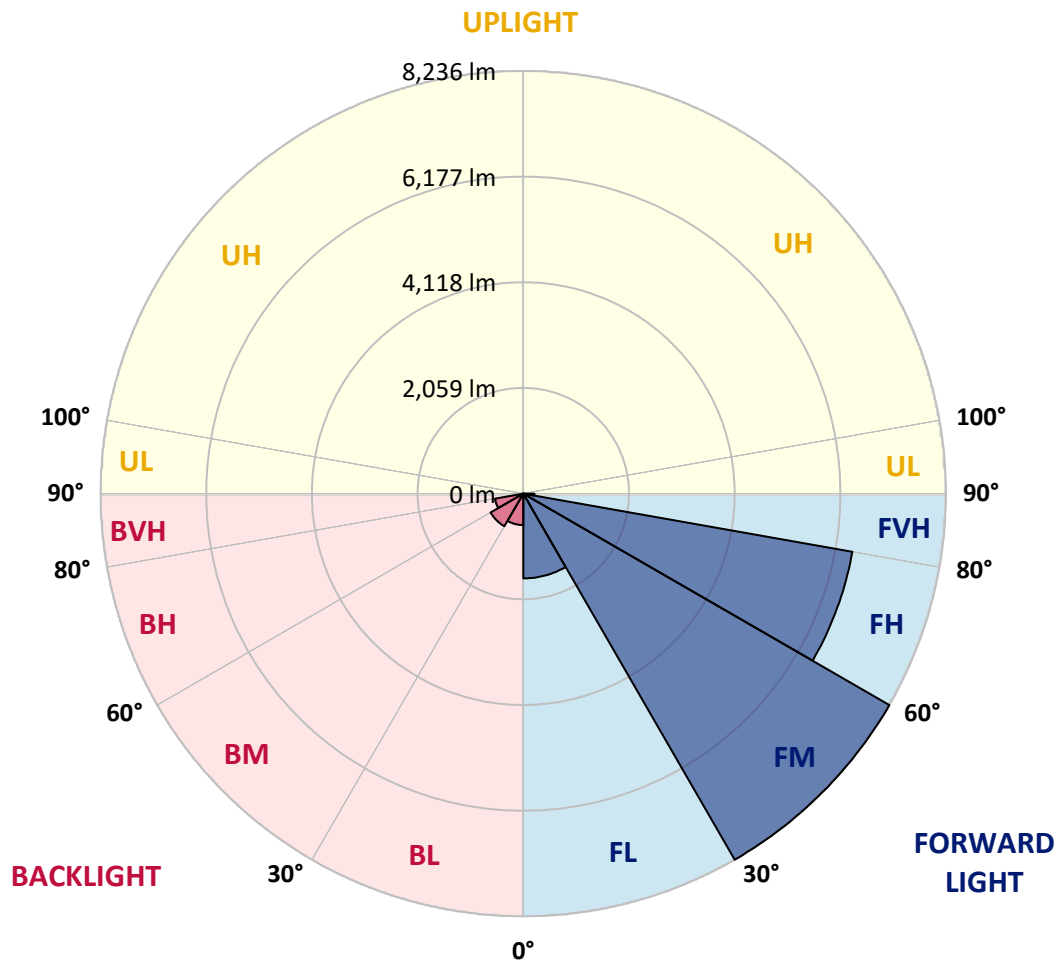
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1651.3 | 8.9 | | | |
| FM (30°-60°) | 8236.0 | 44.4 | | | |
| FH (60°-80°) | 6509.9 | 35.1 | | | G3/7500 |
| FVH (80°-90°) | 218.3 | 1.2 | | | G2/225 |
| BL (0°-30°) | 613.1 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 735.0 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 561.3 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.2 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 |
| 2.5° | 4631.2 | 4636.2 | 4642.5 | 4651.2 | 4657.5 | 4638.7 | 4612.4 | 4582.4 | 4576.1 | 4512.3 | 4434.7 |
| 5° | 4383.4 | 4390.9 | 4445.9 | 4476.0 | 4543.6 | 4604.9 | 4643.7 | 4648.7 | 4646.2 | 4586.1 | 4462.2 |
| 7.5° | 4030.4 | 4051.7 | 4105.5 | 4158.1 | 4284.5 | 4400.9 | 4538.6 | 4634.9 | 4641.2 | 4624.9 | 4471.0 |
| 10° | 3743.8 | 3757.5 | 3785.1 | 3888.9 | 3994.1 | 4171.8 | 4364.6 | 4546.1 | 4561.1 | 4626.2 | 4463.5 |
| 12.5° | 3519.7 | 3539.7 | 3573.5 | 3653.6 | 3780.0 | 3947.8 | 4166.8 | 4410.9 | 4442.2 | 4602.4 | 4442.2 |
| 15° | 3363.2 | 3373.3 | 3407.1 | 3485.9 | 3608.6 | 3763.8 | 3985.3 | 4269.5 | 4297.0 | 4571.1 | 4438.4 |
| 17.5° | 3289.4 | 3300.7 | 3324.4 | 3387.0 | 3488.4 | 3632.4 | 3848.9 | 4155.6 | 4190.6 | 4551.1 | 4452.2 |
| 20° | 3309.4 | 3319.4 | 3320.7 | 3353.2 | 3422.1 | 3543.5 | 3748.8 | 4049.2 | 4094.2 | 4538.6 | 4474.7 |
| 22.5° | 3423.3 | 3424.6 | 3409.6 | 3394.5 | 3418.3 | 3505.9 | 3687.4 | 3981.6 | 4027.9 | 4536.1 | 4501.0 |
| 25° | 3593.6 | 3597.3 | 3572.3 | 3519.7 | 3472.1 | 3517.2 | 3673.7 | 3937.8 | 3979.1 | 4529.8 | 4517.3 |
| 27.5° | 3828.9 | 3827.6 | 3820.1 | 3732.5 | 3597.3 | 3567.3 | 3684.9 | 3914.0 | 3949.0 | 4512.3 | 4523.5 |
| 30° | 4158.1 | 4148.0 | 4131.8 | 4032.9 | 3826.4 | 3688.7 | 3732.5 | 3899.0 | 3931.5 | 4487.2 | 4507.3 |
| 32.5° | 4482.2 | 4519.8 | 4517.3 | 4423.4 | 4165.6 | 3905.2 | 3831.4 | 3919.0 | 3942.8 | 4471.0 | 4483.5 |
| 35° | 4860.2 | 4859.0 | 4955.4 | 4920.3 | 4618.7 | 4181.8 | 4000.3 | 3985.3 | 4004.1 | 4482.2 | 4472.2 |
| 37.5° | 5210.7 | 5243.3 | 5393.5 | 5429.8 | 5154.4 | 4572.4 | 4239.4 | 4128.0 | 4134.3 | 4558.6 | 4499.8 |
| 40° | 5647.5 | 5710.1 | 5934.2 | 6055.6 | 5812.8 | 5151.9 | 4592.4 | 4389.6 | 4390.9 | 4746.3 | 4603.6 |
| 42.5° | 6210.8 | 6309.7 | 6518.7 | 6721.5 | 6591.3 | 5837.8 | 5121.8 | 4803.9 | 4801.4 | 5076.8 | 4841.5 |
| 45° | 6895.5 | 6964.3 | 7202.1 | 7523.8 | 7441.2 | 6795.3 | 5892.9 | 5446.0 | 5413.5 | 5618.8 | 5263.3 |
| 47.5° | 7486.3 | 7580.1 | 7821.7 | 8188.4 | 8563.9 | 7964.4 | 6814.1 | 6328.5 | 6307.2 | 6481.2 | 5986.7 |
| 50° | 7744.1 | 7826.7 | 8080.8 | 8595.2 | 9505.2 | 9498.9 | 8185.9 | 7616.4 | 7580.1 | 7674.0 | 7105.7 |
| 52.5° | 7461.2 | 7538.8 | 7795.4 | 8436.3 | 9948.3 | 11368.9 | 10173.6 | 9232.3 | 9188.5 | 9068.4 | 8442.5 |
| 55° | 6492.4 | 6556.3 | 6935.5 | 7671.5 | 9778.1 | 12615.6 | 12912.2 | 11228.8 | 11058.5 | 10591.6 | 9955.8 |
| 57.5° | 5169.4 | 5136.9 | 5372.2 | 6227.1 | 8779.2 | 13033.7 | 15723.5 | 13715.8 | 13411.7 | 11908.4 | 11236.3 |
| 60° | 3582.3 | 3682.4 | 3777.5 | 4340.8 | 6601.3 | 12308.9 | 17472.1 | 16842.5 | 16442.0 | 13203.9 | 12462.9 |
| 62.5° | 2633.5 | 2699.9 | 2762.4 | 3022.8 | 4150.5 | 9828.1 | 17781.3 | 20054.3 | 19698.8 | 14579.5 | 13633.2 |
| 65° | 2082.8 | 2087.8 | 2112.8 | 2369.4 | 2734.9 | 6391.0 | 16295.5 | 21865.5 | 21774.1 | 15903.7 | 14107.6 |
| 66° | 1897.5 | 1898.8 | 1937.6 | 2213.0 | 2454.5 | 5204.5 | 15105.2 | 22003.1 | 22053.2 | 16221.7 | 13968.7 |
| 67.5° | 1658.5 | 1653.5 | 1709.8 | 1988.9 | 2235.5 | 3752.5 | 12974.8 | 21444.9 | 21741.5 | 16465.7 | 13469.2 |
| 70° | 1285.5 | 1279.2 | 1348.1 | 1668.5 | 2059.0 | 2503.3 | 8624.0 | 18413.3 | 18891.5 | 15966.3 | 11917.2 |
| 72.5° | 856.1 | 861.2 | 978.8 | 1316.8 | 1965.1 | 2204.2 | 5188.2 | 14007.5 | 14683.4 | 13185.1 | 9375.0 |
| 75° | 499.4 | 508.2 | 642.1 | 978.8 | 1706.0 | 2101.6 | 2936.4 | 9988.3 | 10420.2 | 9104.7 | 5840.3 |
| 77.5° | 261.6 | 265.4 | 359.2 | 645.9 | 1308.0 | 1951.4 | 1956.4 | 6381.0 | 6583.8 | 4424.7 | 2311.8 |
| 80° | 138.9 | 135.2 | 192.8 | 389.3 | 900.0 | 1713.5 | 1587.1 | 3378.3 | 3512.2 | 1314.3 | 584.5 |
| 82.5° | 52.6 | 57.6 | 102.6 | 255.3 | 532.0 | 1230.4 | 1366.8 | 1493.2 | 1446.9 | 289.1 | 245.3 |
| 85° | 10.0 | 12.5 | 43.8 | 151.5 | 267.9 | 514.4 | 1007.6 | 732.2 | 678.4 | 108.9 | 141.4 |
| 87.5° | 1.3 | 2.5 | 12.5 | 36.3 | 38.8 | 174.0 | 297.9 | 202.8 | 175.2 | 40.1 | 58.8 |
| 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° | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 | 4394.6 |
| 2.5° | 4397.1 | 4363.3 | 4250.7 | 4139.3 | 4025.4 | 3922.7 | 3852.6 | 3738.7 | 3710.0 | 3668.7 | 3644.9 |
| 5° | 4388.4 | 4309.5 | 4093.0 | 3856.4 | 3636.1 | 3398.3 | 3216.8 | 3041.6 | 2947.7 | 2900.1 | 2882.6 |
| 7.5° | 4363.3 | 4238.2 | 3900.2 | 3529.7 | 3176.7 | 2821.3 | 2512.1 | 2276.8 | 2125.3 | 2021.5 | 1951.4 |
| 10° | 4313.3 | 4140.5 | 3676.2 | 3166.7 | 2633.5 | 2164.1 | 1772.4 | 1474.5 | 1244.2 | 1171.6 | 1174.1 |
| 12.5° | 4261.9 | 4031.6 | 3425.8 | 2763.7 | 2102.8 | 1510.8 | 1095.2 | 859.9 | 749.8 | 713.5 | 705.9 |
| 15° | 4214.4 | 3927.7 | 3180.5 | 2373.2 | 1565.8 | 978.8 | 705.9 | 623.3 | 593.3 | 587.0 | 585.8 |
| 17.5° | 4189.3 | 3831.4 | 2918.9 | 1926.3 | 1092.7 | 664.6 | 565.8 | 543.2 | 534.5 | 528.2 | 525.7 |
| 20° | 4168.1 | 3747.5 | 2668.6 | 1508.3 | 747.2 | 544.5 | 506.9 | 485.6 | 470.6 | 464.4 | 460.6 |
| 22.5° | 4153.0 | 3661.1 | 2409.5 | 1167.8 | 572.0 | 483.1 | 449.4 | 421.8 | 400.5 | 393.0 | 388.0 |
| 25° | 4130.5 | 3566.0 | 2147.9 | 853.6 | 481.9 | 429.3 | 390.5 | 358.0 | 330.4 | 316.7 | 314.2 |
| 27.5° | 4098.0 | 3458.4 | 1861.2 | 632.1 | 430.6 | 381.8 | 334.2 | 294.1 | 266.6 | 251.6 | 252.8 |
| 30° | 4045.4 | 3345.7 | 1574.6 | 501.9 | 389.3 | 332.9 | 281.6 | 242.8 | 216.5 | 205.3 | 204.0 |
| 32.5° | 3982.8 | 3209.3 | 1311.8 | 430.6 | 351.7 | 289.1 | 235.3 | 201.5 | 181.5 | 172.7 | 171.5 |
| 35° | 3924.0 | 3071.6 | 1043.9 | 386.8 | 312.9 | 249.1 | 197.8 | 169.0 | 154.0 | 146.4 | 147.7 |
| 37.5° | 3891.4 | 2948.9 | 813.6 | 351.7 | 281.6 | 214.0 | 170.2 | 145.2 | 131.4 | 125.2 | 123.9 |
| 40° | 3912.7 | 2848.8 | 647.1 | 320.4 | 246.6 | 184.0 | 146.4 | 125.2 | 111.4 | 102.6 | 102.6 |
| 42.5° | 4012.9 | 2805.0 | 521.9 | 290.4 | 214.0 | 159.0 | 127.7 | 107.6 | 92.6 | 83.9 | 85.1 |
| 45° | 4318.3 | 2851.3 | 436.8 | 262.9 | 184.0 | 137.7 | 110.1 | 88.9 | 75.1 | 68.8 | 67.6 |
| 47.5° | 4825.2 | 3025.3 | 378.0 | 234.1 | 157.7 | 117.7 | 92.6 | 73.8 | 60.1 | 55.1 | 53.8 |
| 50° | 5711.4 | 3384.5 | 334.2 | 205.3 | 133.9 | 100.1 | 76.4 | 58.8 | 47.6 | 42.6 | 42.6 |
| 52.5° | 6930.5 | 4168.1 | 302.9 | 172.7 | 112.7 | 85.1 | 62.6 | 47.6 | 37.6 | 33.8 | 32.5 |
| 55° | 8204.7 | 4994.2 | 286.6 | 145.2 | 93.9 | 70.1 | 50.1 | 37.6 | 28.8 | 25.0 | 23.8 |
| 57.5° | 9430.1 | 5642.5 | 267.9 | 117.7 | 75.1 | 53.8 | 38.8 | 28.8 | 20.0 | 17.5 | 16.3 |
| 60° | 10605.4 | 6167.0 | 227.8 | 93.9 | 58.8 | 38.8 | 28.8 | 20.0 | 13.8 | 11.3 | 11.3 |
| 62.5° | 11656.8 | 6472.4 | 179.0 | 75.1 | 45.1 | 27.5 | 18.8 | 15.0 | 10.0 | 7.5 | 7.5 |
| 65° | 11779.5 | 6075.6 | 135.2 | 57.6 | 32.5 | 17.5 | 11.3 | 11.3 | 7.5 | 5.0 | 5.0 |
| 66° | 11532.9 | 5738.9 | 118.9 | 52.6 | 28.8 | 15.0 | 10.0 | 8.8 | 6.3 | 3.8 | 3.8 |
| 67.5° | 10982.2 | 5164.4 | 102.6 | 45.1 | 23.8 | 11.3 | 7.5 | 7.5 | 5.0 | 2.5 | 2.5 |
| 70° | 9488.9 | 4218.1 | 81.4 | 33.8 | 17.5 | 8.8 | 5.0 | 5.0 | 3.8 | 2.5 | 2.5 |
| 72.5° | 7232.2 | 3149.2 | 66.3 | 25.0 | 12.5 | 6.3 | 3.8 | 3.8 | 3.8 | 2.5 | 2.5 |
| 75° | 4362.1 | 1696.0 | 51.3 | 18.8 | 11.3 | 5.0 | 2.5 | 3.8 | 5.0 | 3.8 | 2.5 |
| 77.5° | 1607.1 | 577.0 | 40.1 | 15.0 | 8.8 | 5.0 | 2.5 | 2.5 | 5.0 | 3.8 | 3.8 |
| 80° | 394.3 | 150.2 | 28.8 | 12.5 | 8.8 | 5.0 | 2.5 | 2.5 | 5.0 | 5.0 | 5.0 |
| 82.5° | 182.7 | 63.8 | 20.0 | 11.3 | 8.8 | 5.0 | 2.5 | 2.5 | 3.8 | 5.0 | 5.0 |
| 85° | 105.1 | 30.0 | 16.3 | 12.5 | 8.8 | 5.0 | 2.5 | 2.5 | 3.8 | 5.0 | 5.0 |
| 87.5° | 42.6 | 15.0 | 15.0 | 12.5 | 10.0 | 6.3 | 2.5 | 2.5 | 2.5 | 3.8 | 3.8 |
| 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)