

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: P456247

Luminaire Tested: **GLAN-SA7C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29489 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

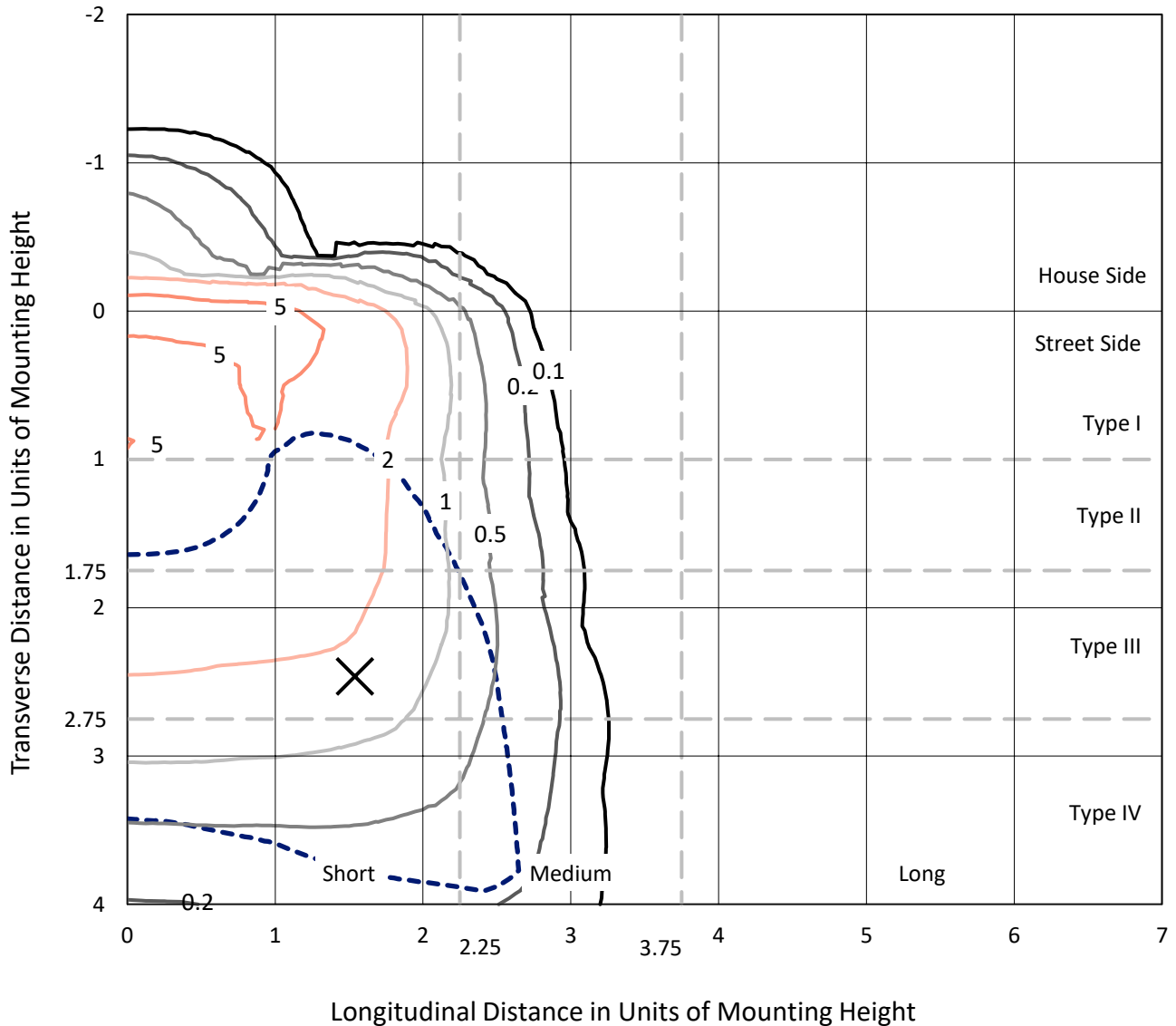
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

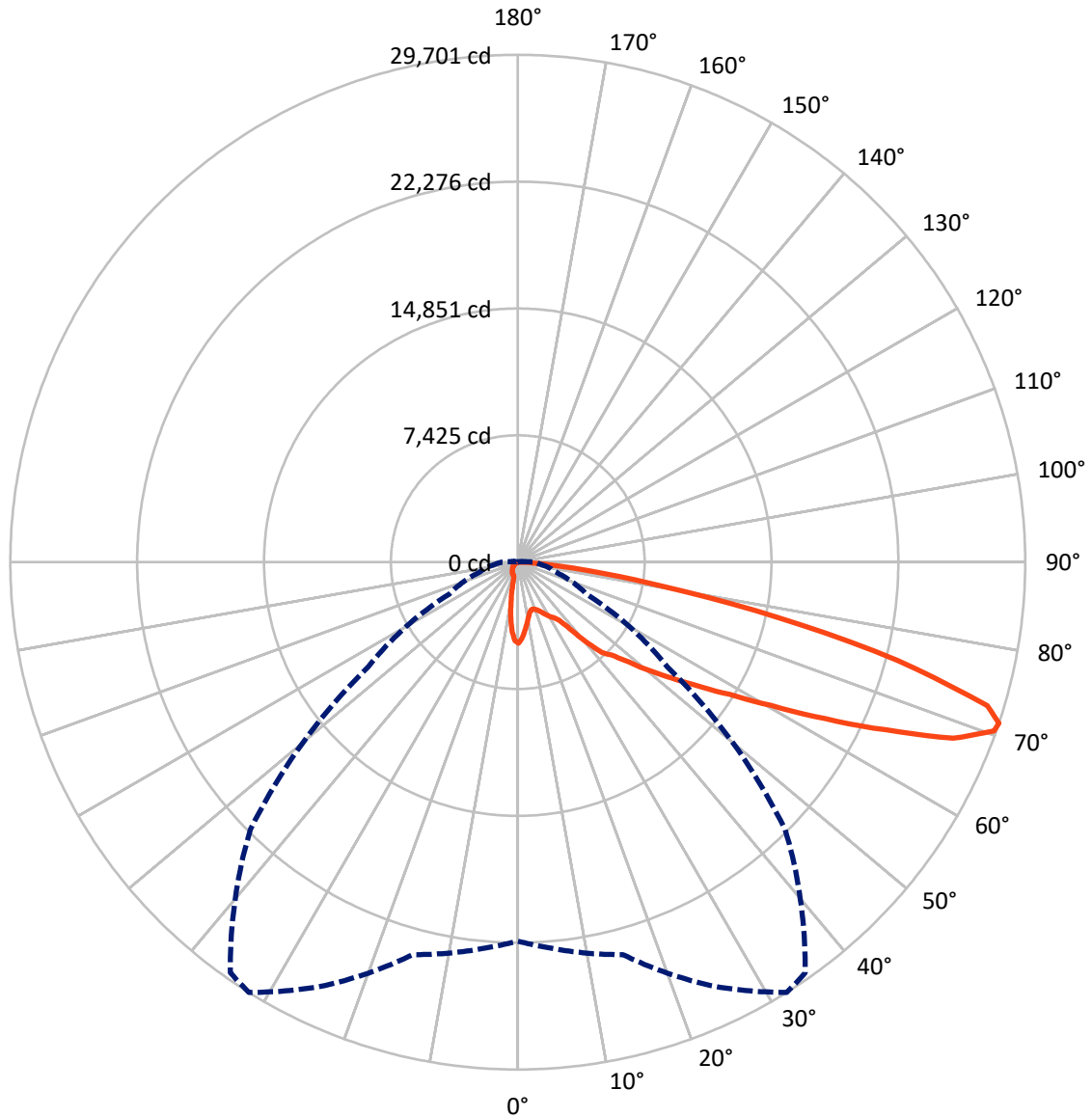
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2470.0 | 0.0 | 2470.0 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 27019.0 | 0.0 | 27019.0 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 29489.0 | 0.0 | 29489.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.6 | 1.3 |
| 10°-20° | 836.9 | 2.8 |
| 20°-30° | 1302.0 | 4.4 |
| 30°-40° | 2169.1 | 7.4 |
| 40°-50° | 4034.8 | 13.7 |
| 50°-60° | 6478.1 | 22.0 |
| 60°-70° | 8713.3 | 29.5 |
| 70°-80° | 5169.7 | 17.5 |
| 80°-90° | 399.6 | 1.4 |
| 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° | 29489.0 | 100.0 |
| 0°-180° | 29489.0 | 100.0 |



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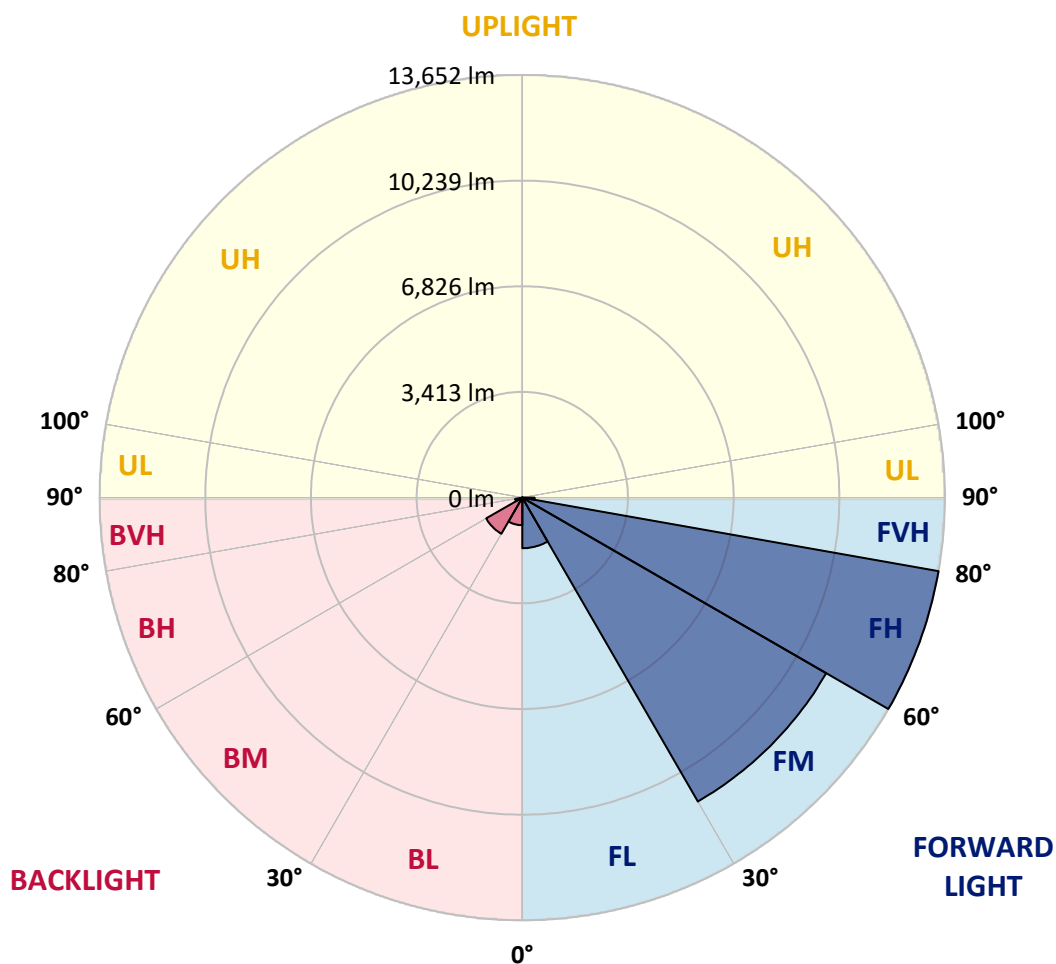
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1634.5 | 5.5 | | | |
| FM (30°-60°) | 11334.5 | 38.4 | | | |
| FH (60°-80°) | 13652.0 | 46.3 | | | G5 |
| FVH (80°-90°) | 398.0 | 1.3 | | | G3/500 |
| BL (0°-30°) | 890.0 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1347.5 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 231.0 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 |
| 2.5° | 4398.2 | 4443.5 | 4436.7 | 4452.5 | 4491.0 | 4506.9 | 4549.9 | 4597.4 | 4663.1 | 4708.3 | 4737.8 |
| 5° | 3938.7 | 3972.7 | 3977.2 | 4056.4 | 4094.9 | 4137.9 | 4264.7 | 4402.7 | 4556.7 | 4678.9 | 4760.4 |
| 7.5° | 3447.5 | 3465.6 | 3501.8 | 3606.0 | 3703.3 | 3746.3 | 3938.7 | 4178.6 | 4420.9 | 4649.5 | 4796.6 |
| 10° | 3042.3 | 3062.7 | 3128.3 | 3239.2 | 3329.8 | 3386.4 | 3653.5 | 3954.6 | 4294.1 | 4633.6 | 4848.7 |
| 12.5° | 2811.4 | 2822.7 | 2847.6 | 2947.2 | 3062.7 | 3123.8 | 3411.3 | 3755.4 | 4192.2 | 4640.4 | 4937.0 |
| 15° | 2795.6 | 2791.0 | 2761.6 | 2802.4 | 2906.5 | 2969.9 | 3250.6 | 3619.5 | 4101.7 | 4663.1 | 5041.1 |
| 17.5° | 2879.3 | 2868.0 | 2797.8 | 2797.8 | 2883.9 | 2935.9 | 3182.7 | 3547.1 | 4056.4 | 4715.1 | 5188.2 |
| 20° | 3008.4 | 2990.2 | 2874.8 | 2865.7 | 2949.5 | 3003.8 | 3223.4 | 3551.6 | 4065.5 | 4812.5 | 5385.2 |
| 22.5° | 3171.3 | 3151.0 | 2976.7 | 2981.2 | 3071.7 | 3126.1 | 3341.1 | 3633.1 | 4122.1 | 4932.4 | 5595.7 |
| 25° | 3384.1 | 3361.5 | 3155.5 | 3146.4 | 3241.5 | 3289.0 | 3515.4 | 3778.0 | 4201.3 | 5081.8 | 5871.8 |
| 27.5° | 3667.1 | 3619.5 | 3372.8 | 3359.2 | 3461.1 | 3522.2 | 3725.9 | 3972.7 | 4341.6 | 5287.8 | 6243.1 |
| 30° | 3900.2 | 3848.2 | 3612.7 | 3576.5 | 3685.2 | 3732.7 | 3943.2 | 4235.2 | 4617.8 | 5647.7 | 6756.9 |
| 32.5° | 4205.8 | 4128.8 | 3852.7 | 3757.6 | 3873.1 | 3934.2 | 4257.9 | 4724.2 | 5027.5 | 6028.0 | 7368.1 |
| 35° | 4894.0 | 4846.4 | 4509.1 | 4176.4 | 4169.6 | 4246.6 | 4721.9 | 5217.7 | 5448.5 | 6621.1 | 8201.1 |
| 37.5° | 5878.6 | 5844.7 | 5487.0 | 5041.1 | 4912.1 | 4875.8 | 5285.6 | 5760.9 | 6120.8 | 7436.0 | 9169.9 |
| 40° | 7021.8 | 6942.5 | 6614.3 | 6236.3 | 6068.8 | 5962.4 | 5951.1 | 6569.0 | 6999.1 | 8542.9 | 10179.5 |
| 42.5° | 7841.2 | 7696.3 | 7297.9 | 7270.8 | 7234.5 | 7123.6 | 6802.2 | 7750.6 | 8133.2 | 9733.6 | 11259.3 |
| 45° | 8701.4 | 8481.8 | 7888.7 | 7786.9 | 7773.3 | 7766.5 | 8087.9 | 9149.6 | 9369.1 | 11023.8 | 12368.4 |
| 47.5° | 9369.1 | 9194.8 | 8708.2 | 8662.9 | 8719.5 | 8873.4 | 9787.9 | 10634.5 | 10589.2 | 12173.8 | 13298.8 |
| 50° | 10258.7 | 10127.5 | 9586.4 | 9672.5 | 9964.5 | 10215.7 | 11705.2 | 12253.0 | 11592.0 | 13079.2 | 13975.6 |
| 52.5° | 11309.1 | 11066.9 | 10564.3 | 10797.5 | 11245.7 | 11664.5 | 13740.2 | 13670.0 | 12296.0 | 13760.6 | 14480.4 |
| 55° | 12219.0 | 12047.0 | 11875.0 | 12117.2 | 12787.2 | 13310.1 | 15578.3 | 14731.7 | 12807.6 | 14308.4 | 14702.2 |
| 57.5° | 13758.3 | 13717.6 | 13541.0 | 13787.7 | 14600.4 | 15143.6 | 17223.9 | 15555.6 | 13135.8 | 14593.6 | 14441.9 |
| 60° | 16035.5 | 15969.9 | 15641.6 | 15956.3 | 17015.7 | 17869.0 | 18740.5 | 16295.8 | 13210.5 | 14482.7 | 13692.7 |
| 62.5° | 18774.5 | 18550.4 | 18269.7 | 18733.8 | 20187.0 | 20562.8 | 20168.9 | 16735.0 | 12932.1 | 13599.9 | 11886.3 |
| 65° | 21332.4 | 21101.5 | 21108.3 | 22086.2 | 23668.5 | 23924.2 | 21834.9 | 16669.3 | 12117.2 | 11388.3 | 8767.0 |
| 67.5° | 23290.4 | 23251.9 | 23528.1 | 25436.3 | 27505.3 | 27328.7 | 23324.4 | 15686.9 | 9701.9 | 7381.7 | 4658.5 |
| 70° | 23390.0 | 23464.7 | 24257.0 | 27478.1 | 29578.8 | 29298.1 | 23197.6 | 12751.0 | 6048.4 | 3395.4 | 1835.8 |
| 71° | 22185.8 | 22688.3 | 23783.9 | 27414.7 | 29701.0 | 29336.6 | 22129.2 | 10679.8 | 4436.7 | 2367.8 | 1324.2 |
| 72.5° | 18905.8 | 19170.6 | 21538.4 | 25800.8 | 28734.4 | 27955.8 | 19419.6 | 7485.8 | 2840.8 | 1448.7 | 760.6 |
| 75° | 10412.7 | 11064.6 | 14423.8 | 20241.3 | 22982.6 | 22299.0 | 12655.9 | 3556.2 | 1417.0 | 792.3 | 314.6 |
| 77.5° | 4957.3 | 4830.6 | 7037.6 | 12038.0 | 15582.8 | 15546.6 | 6376.6 | 1580.0 | 826.2 | 536.5 | 158.5 |
| 80° | 1417.0 | 1593.6 | 2693.7 | 5722.4 | 8651.6 | 8746.6 | 2449.2 | 762.8 | 572.7 | 418.8 | 81.5 |
| 82.5° | 427.8 | 436.9 | 989.2 | 2530.7 | 4303.1 | 4056.4 | 919.0 | 389.3 | 412.0 | 332.8 | 47.5 |
| 85° | 74.7 | 92.8 | 292.0 | 891.9 | 1641.1 | 1245.0 | 230.9 | 185.6 | 271.6 | 219.6 | 27.2 |
| 87.5° | 4.5 | 6.8 | 97.3 | 101.9 | 144.9 | 83.8 | 40.7 | 27.2 | 58.9 | 58.9 | 15.8 |
| 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° | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 | 4742.3 |
| 2.5° | 4758.1 | 4771.7 | 4762.7 | 4742.3 | 4708.3 | 4667.6 | 4613.3 | 4568.0 | 4529.5 | 4509.1 | 4534.0 |
| 5° | 4787.6 | 4805.7 | 4760.4 | 4658.5 | 4504.6 | 4337.1 | 4147.0 | 3999.8 | 3884.4 | 3848.2 | 3834.6 |
| 7.5° | 4832.8 | 4844.2 | 4721.9 | 4495.6 | 4169.6 | 3773.5 | 3427.1 | 3135.1 | 2908.8 | 2840.8 | 2741.2 |
| 10° | 4891.7 | 4884.9 | 4654.0 | 4233.0 | 3660.3 | 3064.9 | 2528.5 | 2130.1 | 1829.0 | 1720.4 | 1711.3 |
| 12.5° | 4982.2 | 4946.0 | 4568.0 | 3875.3 | 3053.6 | 2274.9 | 1611.7 | 1260.8 | 1070.7 | 1007.3 | 993.7 |
| 15° | 5095.4 | 5009.4 | 4432.2 | 3456.6 | 2338.3 | 1469.1 | 993.7 | 887.3 | 862.4 | 857.9 | 853.4 |
| 17.5° | 5229.0 | 5093.2 | 4253.3 | 2942.7 | 1643.4 | 953.0 | 830.7 | 828.5 | 830.7 | 826.2 | 824.0 |
| 20° | 5410.1 | 5181.4 | 4040.6 | 2333.8 | 1086.5 | 803.6 | 792.3 | 792.3 | 794.5 | 792.3 | 792.3 |
| 22.5° | 5602.5 | 5285.6 | 3778.0 | 1781.5 | 819.4 | 762.8 | 760.6 | 765.1 | 769.6 | 767.4 | 767.4 |
| 25° | 5840.1 | 5421.4 | 3431.7 | 1220.1 | 733.4 | 728.9 | 731.2 | 740.2 | 749.3 | 751.5 | 749.3 |
| 27.5° | 6184.2 | 5588.9 | 3060.4 | 839.8 | 672.3 | 676.8 | 699.5 | 722.1 | 735.7 | 737.9 | 737.9 |
| 30° | 6571.3 | 5774.5 | 2576.0 | 681.4 | 622.5 | 622.5 | 649.7 | 692.7 | 722.1 | 726.6 | 728.9 |
| 32.5° | 7069.3 | 5989.5 | 2039.5 | 613.4 | 575.0 | 570.4 | 595.3 | 647.4 | 701.7 | 717.6 | 717.6 |
| 35° | 7685.0 | 6243.1 | 1516.6 | 570.4 | 541.0 | 529.7 | 543.3 | 586.3 | 656.5 | 701.7 | 706.3 |
| 37.5° | 8407.1 | 6483.0 | 1109.2 | 532.0 | 509.3 | 493.5 | 502.5 | 536.5 | 593.1 | 661.0 | 679.1 |
| 40° | 9074.9 | 6695.8 | 828.5 | 500.3 | 477.6 | 466.3 | 473.1 | 488.9 | 536.5 | 599.9 | 611.2 |
| 42.5° | 9803.8 | 6861.0 | 658.7 | 466.3 | 445.9 | 441.4 | 441.4 | 448.2 | 479.9 | 516.1 | 518.4 |
| 45° | 10530.4 | 6919.9 | 552.3 | 425.6 | 412.0 | 416.5 | 414.2 | 409.7 | 423.3 | 418.8 | 418.8 |
| 47.5° | 11048.7 | 6849.7 | 457.3 | 387.1 | 387.1 | 393.9 | 382.6 | 366.7 | 359.9 | 332.8 | 335.0 |
| 50° | 11404.1 | 6593.9 | 375.8 | 341.8 | 359.9 | 369.0 | 346.3 | 321.4 | 296.5 | 267.1 | 260.3 |
| 52.5° | 11551.3 | 6138.9 | 307.9 | 283.0 | 319.2 | 330.5 | 303.3 | 273.9 | 235.4 | 210.5 | 203.7 |
| 55° | 11456.2 | 5577.6 | 255.8 | 230.9 | 269.4 | 283.0 | 255.8 | 221.8 | 178.8 | 151.7 | 147.1 |
| 57.5° | 11037.4 | 4907.5 | 217.3 | 183.4 | 215.0 | 224.1 | 206.0 | 169.8 | 126.8 | 99.6 | 99.6 |
| 60° | 10313.1 | 4214.9 | 176.6 | 144.9 | 160.7 | 174.3 | 156.2 | 122.2 | 86.0 | 61.1 | 56.6 |
| 62.5° | 8844.0 | 3422.6 | 142.6 | 113.2 | 113.2 | 124.5 | 108.7 | 88.3 | 54.3 | 31.7 | 29.4 |
| 65° | 6385.7 | 2347.4 | 113.2 | 83.8 | 81.5 | 81.5 | 67.9 | 58.9 | 31.7 | 13.6 | 9.1 |
| 67.5° | 3470.1 | 1324.2 | 90.5 | 63.4 | 56.6 | 54.3 | 43.0 | 34.0 | 13.6 | 2.3 | 0.0 |
| 70° | 1365.0 | 509.3 | 70.2 | 43.0 | 36.2 | 34.0 | 22.6 | 15.8 | 9.1 | 0.0 | 0.0 |
| 71° | 925.8 | 350.9 | 61.1 | 36.2 | 29.4 | 24.9 | 18.1 | 13.6 | 6.8 | 0.0 | 0.0 |
| 72.5° | 529.7 | 217.3 | 47.5 | 27.2 | 22.6 | 18.1 | 13.6 | 9.1 | 6.8 | 0.0 | 0.0 |
| 75° | 230.9 | 110.9 | 29.4 | 20.4 | 15.8 | 11.3 | 9.1 | 6.8 | 2.3 | 0.0 | 0.0 |
| 77.5° | 117.7 | 61.1 | 20.4 | 15.8 | 9.1 | 6.8 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 |
| 80° | 65.6 | 31.7 | 13.6 | 9.1 | 6.8 | 4.5 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.2 | 18.1 | 6.8 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 22.6 | 11.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.3 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 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)