

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: P454865

Luminaire Tested: **GALN-SA6A-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454865
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: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA 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: 20213 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

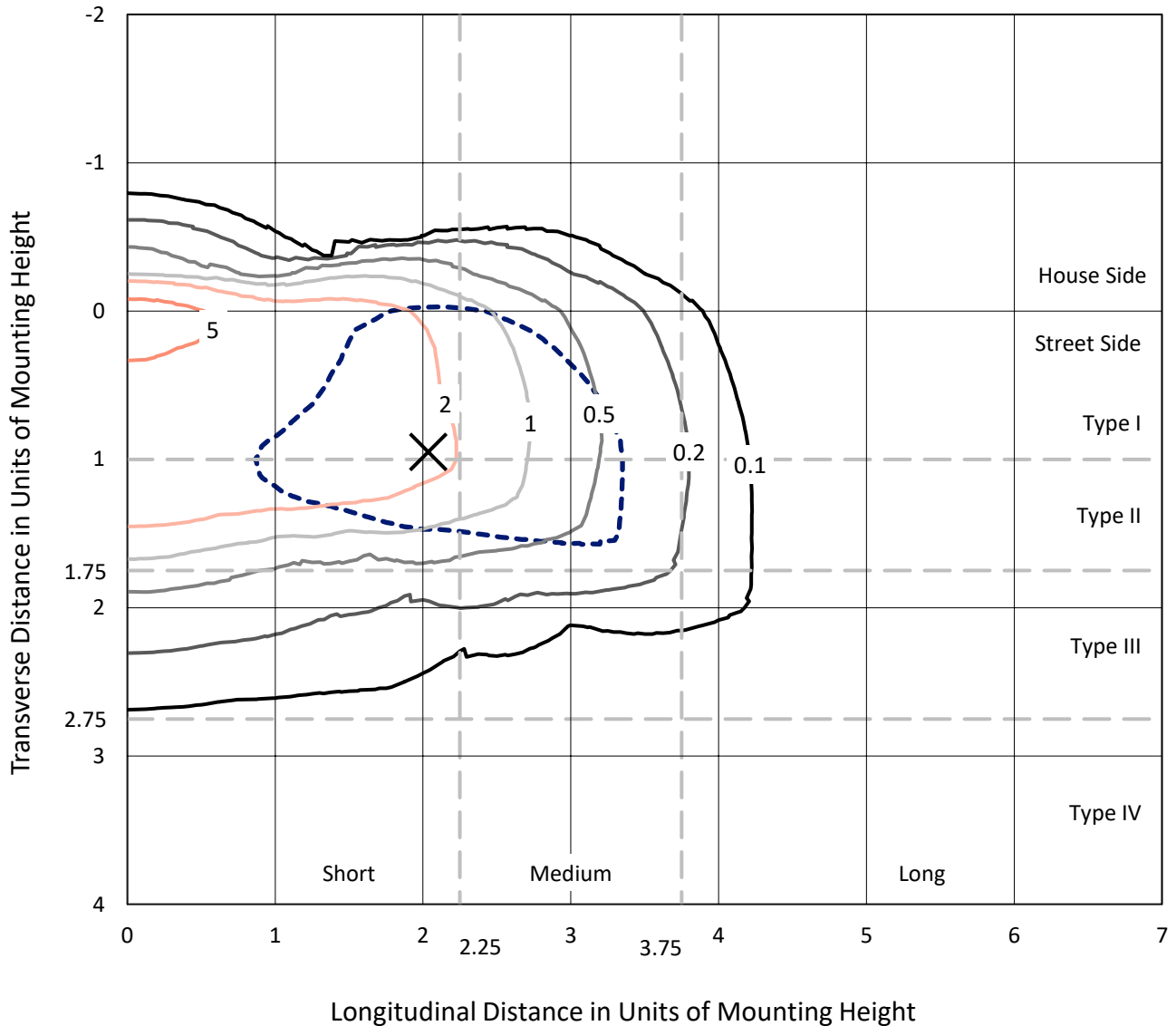
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

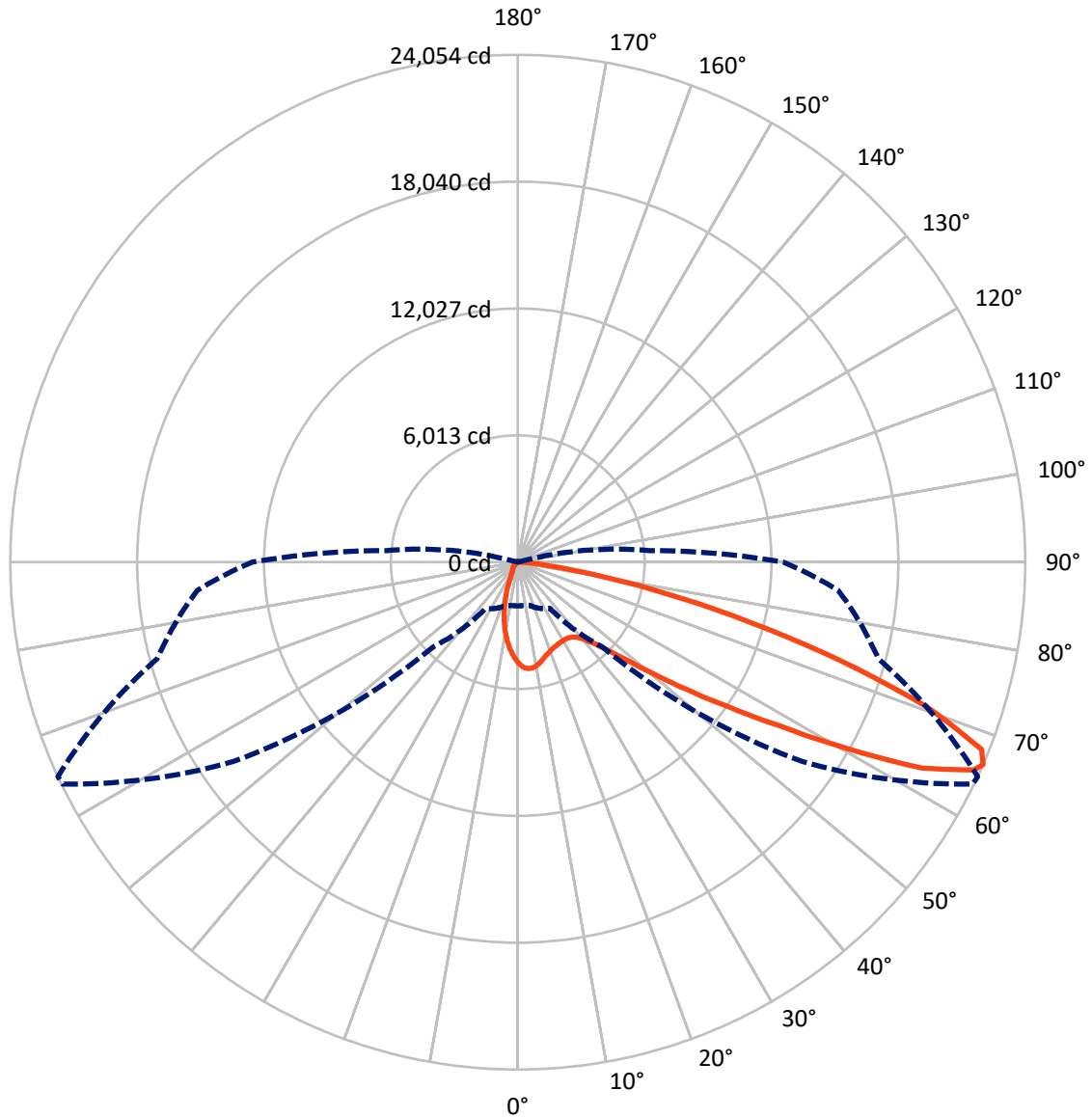
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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 | 2090.3 | 0.0 | 2090.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 18122.7 | 0.0 | 18122.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 20213.0 | 0.0 | 20213.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 392.0 | 1.9 |
| 10°-20° | 854.1 | 4.2 |
| 20°-30° | 1223.6 | 6.1 |
| 30°-40° | 1787.1 | 8.8 |
| 40°-50° | 2996.7 | 14.8 |
| 50°-60° | 5001.0 | 24.7 |
| 60°-70° | 5308.4 | 26.3 |
| 70°-80° | 2404.2 | 11.9 |
| 80°-90° | 246.0 | 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° | 20213.0 | 100.0 |
| 0°-180° | 20213.0 | 100.0 |

Coefficient of Utilization



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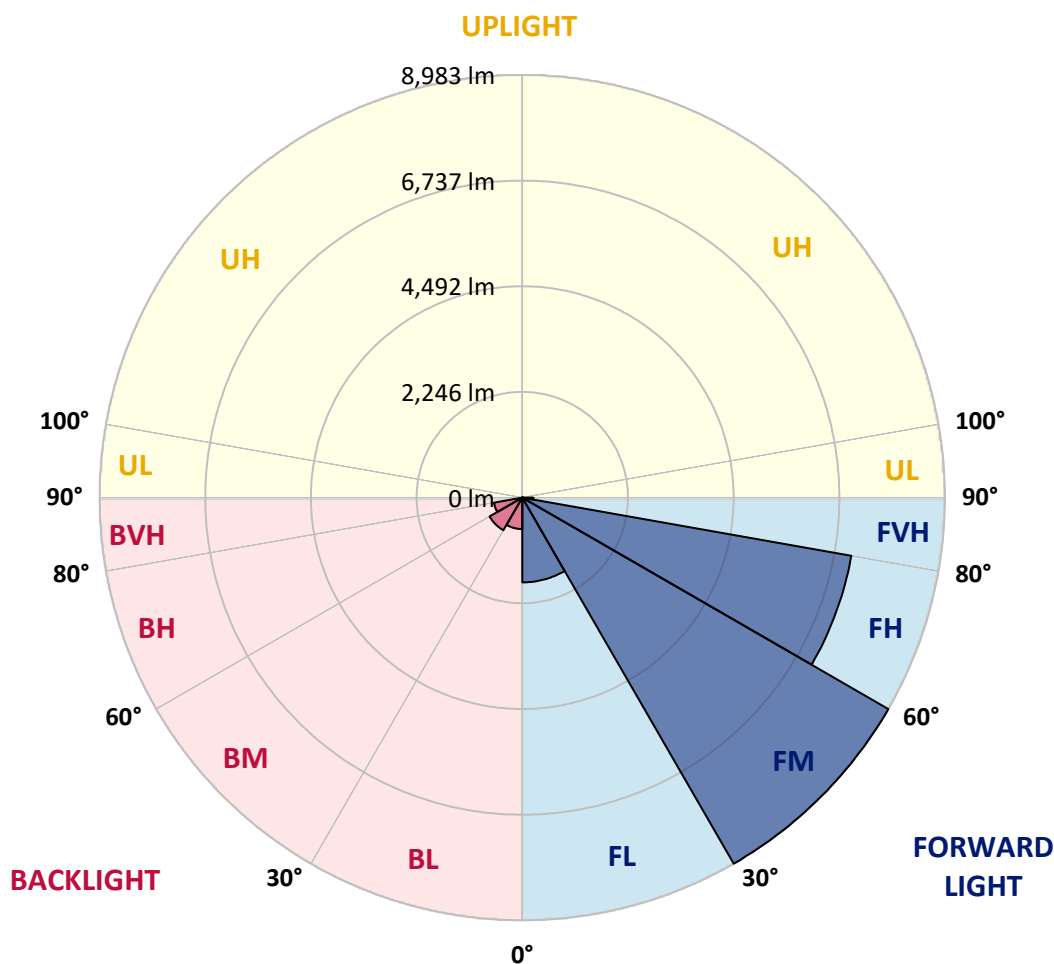
CATALOG NUMBER: GALN-SA6A-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1801.0 | 8.9 | | | |
| FM (30°-60°) | 8983.1 | 44.4 | | | |
| FH (60°-80°) | 7100.4 | 35.1 | | | G3/7500 |
| FVH (80°-90°) | 238.2 | 1.2 | | | G3/500 |
| BL (0°-30°) | 668.7 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 801.7 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 612.2 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.8 | 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° | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 |
| 2.5° | 5051.3 | 5056.7 | 5063.6 | 5073.1 | 5079.9 | 5059.5 | 5030.8 | 4998.0 | 4991.2 | 4921.6 | 4836.9 |
| 5° | 4781.0 | 4789.2 | 4849.2 | 4882.0 | 4955.7 | 5022.6 | 5064.9 | 5070.4 | 5067.7 | 5002.1 | 4867.0 |
| 7.5° | 4396.0 | 4419.2 | 4477.9 | 4535.2 | 4673.1 | 4800.1 | 4950.2 | 5055.4 | 5062.2 | 5044.4 | 4876.5 |
| 10° | 4083.3 | 4098.4 | 4128.4 | 4241.7 | 4356.4 | 4550.2 | 4760.5 | 4958.4 | 4974.8 | 5045.8 | 4868.3 |
| 12.5° | 3839.0 | 3860.8 | 3897.7 | 3985.0 | 4122.9 | 4305.9 | 4544.8 | 4811.0 | 4845.1 | 5019.9 | 4845.1 |
| 15° | 3668.3 | 3679.2 | 3716.1 | 3802.1 | 3935.9 | 4105.2 | 4346.8 | 4656.7 | 4686.8 | 4985.7 | 4841.0 |
| 17.5° | 3587.8 | 3600.1 | 3626.0 | 3694.3 | 3804.8 | 3961.8 | 4198.0 | 4532.5 | 4570.7 | 4963.9 | 4856.0 |
| 20° | 3609.6 | 3620.5 | 3621.9 | 3657.4 | 3732.5 | 3864.9 | 4088.8 | 4416.5 | 4465.6 | 4950.2 | 4880.6 |
| 22.5° | 3733.8 | 3735.2 | 3718.8 | 3702.4 | 3728.4 | 3823.9 | 4021.9 | 4342.7 | 4393.2 | 4947.5 | 4909.3 |
| 25° | 3919.5 | 3923.6 | 3896.3 | 3839.0 | 3787.1 | 3836.2 | 4006.9 | 4294.9 | 4340.0 | 4940.7 | 4927.0 |
| 27.5° | 4176.2 | 4174.8 | 4166.6 | 4071.1 | 3923.6 | 3890.8 | 4019.2 | 4269.0 | 4307.2 | 4921.6 | 4933.9 |
| 30° | 4535.2 | 4524.3 | 4506.6 | 4398.7 | 4173.4 | 4023.3 | 4071.1 | 4252.6 | 4288.1 | 4894.3 | 4916.1 |
| 32.5° | 4888.8 | 4929.8 | 4927.0 | 4824.6 | 4543.4 | 4259.5 | 4178.9 | 4274.5 | 4300.4 | 4876.5 | 4890.2 |
| 35° | 5301.1 | 5299.7 | 5404.9 | 5366.6 | 5037.6 | 4561.2 | 4363.2 | 4346.8 | 4367.3 | 4888.8 | 4877.9 |
| 37.5° | 5683.4 | 5718.9 | 5882.7 | 5922.3 | 5621.9 | 4987.1 | 4624.0 | 4502.5 | 4509.3 | 4972.1 | 4907.9 |
| 40° | 6159.8 | 6228.1 | 6472.5 | 6604.9 | 6340.0 | 5619.2 | 5009.0 | 4787.8 | 4789.2 | 5176.9 | 5021.2 |
| 42.5° | 6774.2 | 6882.0 | 7110.0 | 7331.2 | 7189.2 | 6367.3 | 5586.4 | 5239.7 | 5236.9 | 5537.3 | 5280.6 |
| 45° | 7520.9 | 7596.0 | 7855.4 | 8206.3 | 8116.2 | 7411.7 | 6427.4 | 5940.0 | 5904.5 | 6128.4 | 5740.7 |
| 47.5° | 8165.3 | 8267.7 | 8531.2 | 8931.2 | 9340.8 | 8686.8 | 7432.2 | 6902.5 | 6879.3 | 7069.1 | 6529.8 |
| 50° | 8446.5 | 8536.7 | 8813.8 | 9374.9 | 10367.4 | 10360.6 | 8928.5 | 8307.3 | 8267.7 | 8370.1 | 7750.3 |
| 52.5° | 8138.0 | 8222.7 | 8502.5 | 9201.5 | 10850.7 | 12400.2 | 11096.4 | 10069.8 | 10022.0 | 9890.9 | 9208.3 |
| 55° | 7081.3 | 7151.0 | 7564.6 | 8367.4 | 10665.0 | 13759.9 | 14083.5 | 12247.3 | 12061.6 | 11552.4 | 10858.9 |
| 57.5° | 5638.3 | 5602.8 | 5859.5 | 6791.9 | 9575.6 | 14215.9 | 17149.8 | 14960.0 | 14628.2 | 12988.6 | 12255.5 |
| 60° | 3907.2 | 4016.4 | 4120.2 | 4734.5 | 7200.1 | 13425.5 | 19056.9 | 18370.2 | 17933.4 | 14401.6 | 13593.4 |
| 62.5° | 2872.4 | 2944.8 | 3013.0 | 3297.0 | 4527.0 | 10719.6 | 19394.2 | 21873.4 | 21485.7 | 15902.0 | 14869.9 |
| 65° | 2271.7 | 2277.2 | 2304.5 | 2584.3 | 2983.0 | 6970.8 | 17773.7 | 23848.8 | 23749.2 | 17346.3 | 15387.3 |
| 66° | 2069.7 | 2071.0 | 2113.3 | 2413.7 | 2677.2 | 5676.5 | 16475.3 | 23999.0 | 24053.6 | 17693.1 | 15235.7 |
| 67.5° | 1808.9 | 1803.4 | 1864.9 | 2169.3 | 2438.3 | 4092.9 | 14151.8 | 23390.1 | 23713.7 | 17959.3 | 14691.0 |
| 70° | 1402.1 | 1395.2 | 1470.3 | 1819.8 | 2245.8 | 2730.4 | 9406.3 | 20083.6 | 20605.1 | 17414.6 | 12998.2 |
| 72.5° | 933.8 | 939.3 | 1067.6 | 1436.2 | 2143.4 | 2404.1 | 5658.8 | 15278.1 | 16015.3 | 14381.1 | 10225.4 |
| 75° | 544.7 | 554.3 | 700.4 | 1067.6 | 1860.8 | 2292.2 | 3202.8 | 10894.4 | 11365.4 | 9930.5 | 6370.1 |
| 77.5° | 285.3 | 289.4 | 391.8 | 704.4 | 1426.6 | 2128.4 | 2133.8 | 6959.8 | 7181.0 | 4826.0 | 2521.5 |
| 80° | 151.5 | 147.4 | 210.2 | 424.6 | 981.6 | 1869.0 | 1731.1 | 3684.7 | 3830.8 | 1433.5 | 637.6 |
| 82.5° | 57.3 | 62.8 | 111.9 | 278.5 | 580.2 | 1342.0 | 1490.8 | 1628.7 | 1578.2 | 315.4 | 267.6 |
| 85° | 10.9 | 13.7 | 47.8 | 165.2 | 292.2 | 561.1 | 1099.0 | 798.6 | 739.9 | 118.8 | 154.3 |
| 87.5° | 1.4 | 2.7 | 13.7 | 39.6 | 42.3 | 189.8 | 324.9 | 221.2 | 191.1 | 43.7 | 64.2 |
| 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° | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 | 4793.2 |
| 2.5° | 4796.0 | 4759.1 | 4636.2 | 4514.7 | 4390.5 | 4278.6 | 4202.1 | 4077.9 | 4046.5 | 4001.4 | 3975.5 |
| 5° | 4786.4 | 4700.4 | 4464.2 | 4206.2 | 3965.9 | 3706.5 | 3508.6 | 3317.5 | 3215.1 | 3163.2 | 3144.1 |
| 7.5° | 4759.1 | 4622.6 | 4254.0 | 3849.9 | 3464.9 | 3077.2 | 2740.0 | 2483.3 | 2318.1 | 2204.8 | 2128.4 |
| 10° | 4704.5 | 4516.1 | 4009.6 | 3454.0 | 2872.4 | 2360.4 | 1933.1 | 1608.2 | 1357.0 | 1277.8 | 1280.6 |
| 12.5° | 4648.5 | 4397.3 | 3736.6 | 3014.4 | 2293.6 | 1647.8 | 1194.6 | 937.9 | 817.8 | 778.2 | 770.0 |
| 15° | 4596.7 | 4284.0 | 3469.0 | 2588.4 | 1707.9 | 1067.6 | 770.0 | 679.9 | 647.1 | 640.3 | 638.9 |
| 17.5° | 4569.4 | 4178.9 | 3183.7 | 2101.1 | 1191.8 | 724.9 | 617.1 | 592.5 | 582.9 | 576.1 | 573.4 |
| 20° | 4546.1 | 4087.4 | 2910.6 | 1645.1 | 815.0 | 593.9 | 552.9 | 529.7 | 513.3 | 506.5 | 502.4 |
| 22.5° | 4529.8 | 3993.2 | 2628.0 | 1273.7 | 623.9 | 527.0 | 490.1 | 460.1 | 436.9 | 428.7 | 423.2 |
| 25° | 4505.2 | 3889.5 | 2342.7 | 931.1 | 525.6 | 468.3 | 425.9 | 390.4 | 360.4 | 345.4 | 342.7 |
| 27.5° | 4469.7 | 3772.1 | 2030.1 | 689.4 | 469.6 | 416.4 | 364.5 | 320.8 | 290.8 | 274.4 | 275.8 |
| 30° | 4412.4 | 3649.2 | 1717.4 | 547.4 | 424.6 | 363.1 | 307.2 | 264.9 | 236.2 | 223.9 | 222.5 |
| 32.5° | 4344.1 | 3500.4 | 1430.7 | 469.6 | 383.6 | 315.4 | 256.7 | 219.8 | 198.0 | 188.4 | 187.0 |
| 35° | 4279.9 | 3350.2 | 1138.6 | 421.8 | 341.3 | 271.7 | 215.7 | 184.3 | 167.9 | 159.7 | 161.1 |
| 37.5° | 4244.4 | 3216.4 | 887.4 | 383.6 | 307.2 | 233.5 | 185.7 | 158.4 | 143.3 | 136.5 | 135.2 |
| 40° | 4267.6 | 3107.2 | 705.8 | 349.5 | 268.9 | 200.7 | 159.7 | 136.5 | 121.5 | 111.9 | 111.9 |
| 42.5° | 4376.9 | 3059.4 | 569.3 | 316.7 | 233.5 | 173.4 | 139.3 | 117.4 | 101.0 | 91.5 | 92.8 |
| 45° | 4710.0 | 3109.9 | 476.5 | 286.7 | 200.7 | 150.2 | 120.1 | 96.9 | 81.9 | 75.1 | 73.7 |
| 47.5° | 5262.9 | 3299.7 | 412.3 | 255.3 | 172.0 | 128.3 | 101.0 | 80.5 | 65.5 | 60.1 | 58.7 |
| 50° | 6229.4 | 3691.5 | 364.5 | 223.9 | 146.1 | 109.2 | 83.3 | 64.2 | 51.9 | 46.4 | 46.4 |
| 52.5° | 7559.2 | 4546.1 | 330.4 | 188.4 | 122.9 | 92.8 | 68.3 | 51.9 | 41.0 | 36.9 | 35.5 |
| 55° | 8948.9 | 5447.2 | 312.6 | 158.4 | 102.4 | 76.5 | 54.6 | 41.0 | 31.4 | 27.3 | 25.9 |
| 57.5° | 10285.5 | 6154.4 | 292.2 | 128.3 | 81.9 | 58.7 | 42.3 | 31.4 | 21.8 | 19.1 | 17.7 |
| 60° | 11567.4 | 6726.4 | 248.5 | 102.4 | 64.2 | 42.3 | 31.4 | 21.8 | 15.0 | 12.3 | 12.3 |
| 62.5° | 12714.2 | 7059.5 | 195.2 | 81.9 | 49.1 | 30.0 | 20.5 | 16.4 | 10.9 | 8.2 | 8.2 |
| 65° | 12848.0 | 6626.7 | 147.4 | 62.8 | 35.5 | 19.1 | 12.3 | 12.3 | 8.2 | 5.5 | 5.5 |
| 66° | 12579.0 | 6259.5 | 129.7 | 57.3 | 31.4 | 16.4 | 10.9 | 9.6 | 6.8 | 4.1 | 4.1 |
| 67.5° | 11978.3 | 5632.9 | 111.9 | 49.1 | 25.9 | 12.3 | 8.2 | 8.2 | 5.5 | 2.7 | 2.7 |
| 70° | 10349.6 | 4600.8 | 88.7 | 36.9 | 19.1 | 9.6 | 5.5 | 5.5 | 4.1 | 2.7 | 2.7 |
| 72.5° | 7888.2 | 3434.9 | 72.4 | 27.3 | 13.7 | 6.8 | 4.1 | 4.1 | 4.1 | 2.7 | 2.7 |
| 75° | 4757.8 | 1849.9 | 56.0 | 20.5 | 12.3 | 5.5 | 2.7 | 4.1 | 5.5 | 4.1 | 2.7 |
| 77.5° | 1752.9 | 629.4 | 43.7 | 16.4 | 9.6 | 5.5 | 2.7 | 2.7 | 5.5 | 4.1 | 4.1 |
| 80° | 430.0 | 163.8 | 31.4 | 13.7 | 9.6 | 5.5 | 2.7 | 2.7 | 5.5 | 5.5 | 5.5 |
| 82.5° | 199.3 | 69.6 | 21.8 | 12.3 | 9.6 | 5.5 | 2.7 | 2.7 | 4.1 | 5.5 | 5.5 |
| 85° | 114.7 | 32.8 | 17.7 | 13.7 | 9.6 | 5.5 | 2.7 | 2.7 | 4.1 | 5.5 | 5.5 |
| 87.5° | 46.4 | 16.4 | 16.4 | 13.7 | 10.9 | 6.8 | 2.7 | 2.7 | 2.7 | 4.1 | 4.1 |
| 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)