

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: P454811

Luminaire Tested: **GALN-SA6A-722-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-722-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16398 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

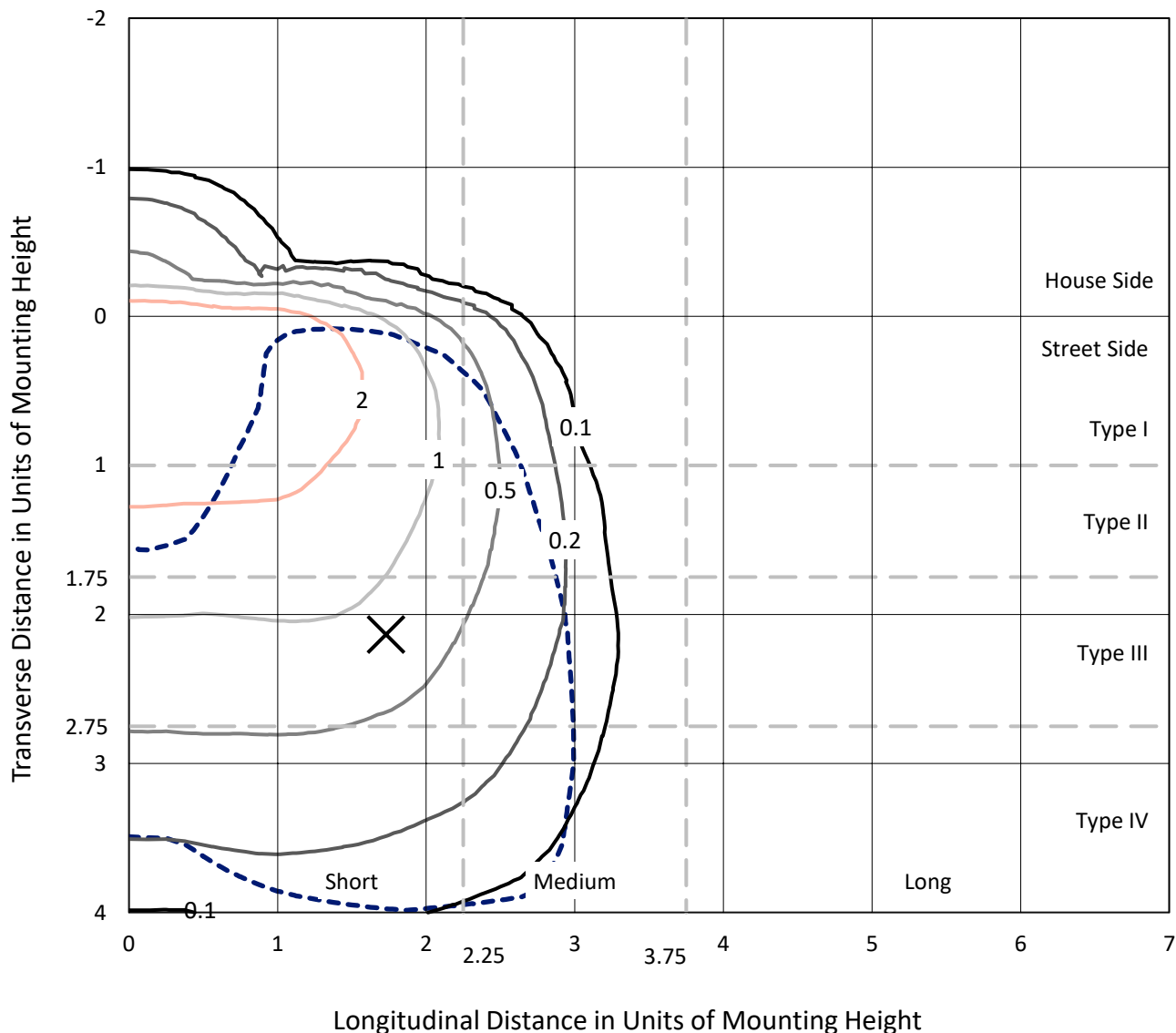
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

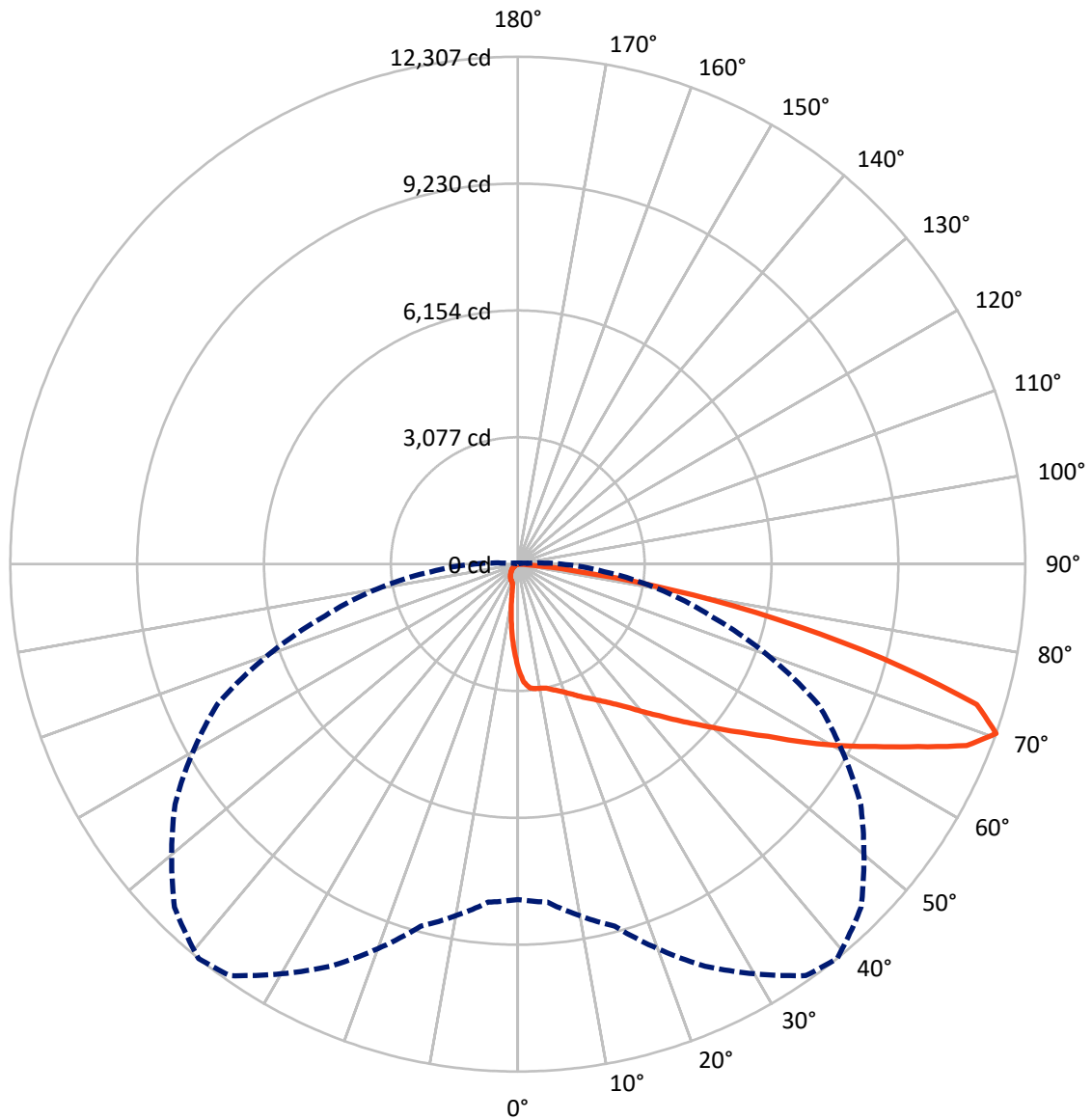
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1069.2 | 0.0 | 1069.2 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 15328.8 | 0.0 | 15328.8 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 16398.0 | 0.0 | 16398.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 218.2 | 1.3 |
| 10°-20° | 567.1 | 3.5 |
| 20°-30° | 950.1 | 5.8 |
| 30°-40° | 1473.5 | 9.0 |
| 40°-50° | 2335.0 | 14.2 |
| 50°-60° | 3422.8 | 20.9 |
| 60°-70° | 4387.2 | 26.8 |
| 70°-80° | 2756.8 | 16.8 |
| 80°-90° | 287.2 | 1.8 |
| 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° | 16398.0 | 100.0 |
| 0°-180° | 16398.0 | 100.0 |

Coefficient of Utilization



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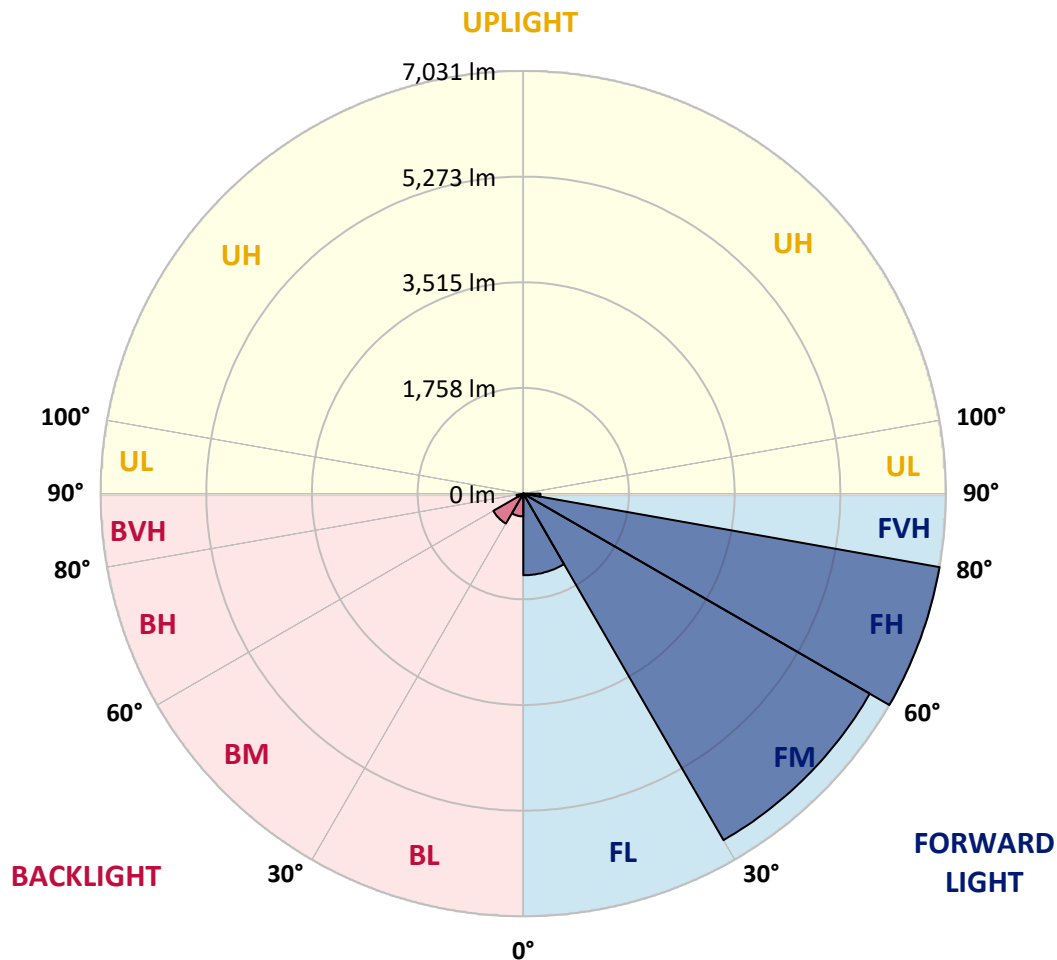
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1356.9 | 8.3 | | | |
| FM (30°-60°) | 6655.9 | 40.6 | | | |
| FH (60°-80°) | 7030.9 | 42.9 | | | G3/7500 |
| FVH (80°-90°) | 285.1 | 1.7 | | | G3/500 |
| BL (0°-30°) | 378.6 | 2.3 | B1/500 | | |
| BM (30°-60°) | 575.4 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 113.1 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 |
| 2.5° | 2956.4 | 2946.5 | 2933.3 | 2917.9 | 2873.8 | 2866.1 | 2839.6 | 2783.4 | 2716.2 | 2661.1 | 2585.1 |
| 5° | 3096.4 | 3101.9 | 3092.0 | 3064.4 | 3032.5 | 3013.7 | 2980.7 | 2893.6 | 2806.6 | 2695.3 | 2570.8 |
| 7.5° | 3128.3 | 3139.4 | 3127.2 | 3100.8 | 3069.9 | 3050.1 | 3023.7 | 2948.7 | 2847.4 | 2720.6 | 2549.8 |
| 10° | 3125.0 | 3138.3 | 3130.5 | 3106.3 | 3081.0 | 3062.2 | 3033.6 | 2974.1 | 2892.5 | 2759.2 | 2556.4 |
| 12.5° | 3119.5 | 3137.2 | 3136.1 | 3123.9 | 3103.0 | 3088.7 | 3071.0 | 3018.1 | 2942.1 | 2815.4 | 2592.8 |
| 15° | 3104.1 | 3126.1 | 3146.0 | 3155.9 | 3157.0 | 3157.0 | 3135.0 | 3078.8 | 3006.0 | 2889.2 | 2640.2 |
| 17.5° | 3110.7 | 3136.1 | 3185.6 | 3214.3 | 3234.1 | 3231.9 | 3208.8 | 3148.2 | 3067.7 | 2965.3 | 2689.8 |
| 20° | 3151.5 | 3185.6 | 3255.1 | 3312.4 | 3332.2 | 3325.6 | 3294.7 | 3224.2 | 3132.7 | 3030.3 | 2738.3 |
| 22.5° | 3251.8 | 3282.6 | 3369.7 | 3436.9 | 3451.2 | 3433.6 | 3389.5 | 3293.6 | 3211.0 | 3100.8 | 2796.7 |
| 25° | 3401.6 | 3438.0 | 3518.4 | 3569.1 | 3569.1 | 3559.2 | 3497.5 | 3385.1 | 3299.1 | 3198.9 | 2872.7 |
| 27.5° | 3583.4 | 3614.3 | 3693.6 | 3738.8 | 3712.4 | 3683.7 | 3622.0 | 3486.5 | 3403.8 | 3322.3 | 2964.2 |
| 30° | 3767.5 | 3787.3 | 3871.0 | 3890.9 | 3863.3 | 3827.0 | 3760.8 | 3625.3 | 3552.6 | 3489.8 | 3096.4 |
| 32.5° | 3941.6 | 3984.5 | 4054.0 | 4049.5 | 4012.1 | 3994.4 | 3933.8 | 3789.5 | 3748.7 | 3742.1 | 3281.5 |
| 35° | 4115.7 | 4148.7 | 4210.4 | 4225.9 | 4192.8 | 4189.5 | 4145.4 | 4038.5 | 4039.6 | 4082.6 | 3570.2 |
| 37.5° | 4265.5 | 4295.3 | 4368.0 | 4402.2 | 4408.8 | 4425.3 | 4407.7 | 4337.1 | 4437.4 | 4555.3 | 3952.6 |
| 40° | 4391.1 | 4433.0 | 4525.6 | 4585.1 | 4653.4 | 4714.0 | 4717.3 | 4732.7 | 4934.4 | 5137.1 | 4451.7 |
| 42.5° | 4489.2 | 4547.6 | 4682.0 | 4792.2 | 4948.7 | 5025.8 | 5087.5 | 5172.4 | 5511.8 | 5814.8 | 5040.2 |
| 45° | 4617.0 | 4684.2 | 4851.7 | 5024.7 | 5269.4 | 5396.1 | 5482.0 | 5709.0 | 6190.6 | 6603.8 | 5644.0 |
| 47.5° | 4828.6 | 4863.9 | 5034.7 | 5287.0 | 5608.8 | 5789.5 | 5957.0 | 6300.8 | 6918.9 | 7289.2 | 6146.5 |
| 50° | 5100.8 | 5123.9 | 5252.8 | 5603.2 | 6019.8 | 6257.8 | 6563.0 | 6967.4 | 7674.8 | 7857.8 | 6430.8 |
| 52.5° | 5401.6 | 5409.3 | 5506.3 | 5951.5 | 6480.4 | 6780.1 | 7121.7 | 7620.9 | 8290.8 | 8263.3 | 6619.2 |
| 55° | 5750.9 | 5739.9 | 5822.5 | 6329.4 | 7025.8 | 7368.5 | 7766.3 | 8289.7 | 8825.3 | 8550.9 | 6727.2 |
| 57.5° | 6150.9 | 6121.1 | 6201.6 | 6830.8 | 7724.4 | 8134.3 | 8538.8 | 8867.1 | 9239.6 | 8792.2 | 6779.0 |
| 60° | 6569.6 | 6510.1 | 6606.0 | 7393.9 | 8547.6 | 8936.5 | 9272.6 | 9360.8 | 9675.9 | 8983.9 | 6689.7 |
| 62.5° | 6903.5 | 6904.6 | 7083.1 | 7993.3 | 9393.8 | 9734.3 | 9912.8 | 9992.2 | 10051.7 | 8942.1 | 6220.3 |
| 65° | 7424.7 | 7442.3 | 7727.7 | 8825.3 | 10373.4 | 10668.8 | 10791.1 | 10533.2 | 10068.2 | 8421.9 | 5515.1 |
| 67.5° | 7962.4 | 8018.6 | 8541.0 | 9971.2 | 11505.1 | 11743.1 | 11585.6 | 10637.9 | 9618.6 | 7235.2 | 4181.8 |
| 70° | 8137.7 | 8230.2 | 9090.8 | 10760.2 | 12183.9 | 12307.3 | 11774.0 | 10149.8 | 8040.7 | 4837.4 | 2104.7 |
| 72.5° | 7456.7 | 7606.5 | 8774.6 | 10472.6 | 11750.8 | 11644.0 | 10534.3 | 8512.3 | 5111.8 | 1836.9 | 642.4 |
| 75° | 5258.3 | 5324.5 | 7292.5 | 8687.5 | 9451.1 | 9148.1 | 8013.1 | 5487.5 | 2102.5 | 515.7 | 220.4 |
| 77.5° | 2715.1 | 2683.2 | 4337.1 | 5764.1 | 6740.4 | 6426.4 | 5247.3 | 2840.7 | 796.7 | 214.9 | 136.6 |
| 80° | 1403.8 | 1427.0 | 1876.6 | 3020.4 | 4114.6 | 3786.2 | 2797.8 | 1316.8 | 424.2 | 119.0 | 104.7 |
| 82.5° | 786.8 | 738.3 | 1078.8 | 1319.0 | 1923.9 | 1508.5 | 1073.3 | 932.2 | 185.1 | 71.6 | 99.2 |
| 85° | 143.2 | 149.9 | 591.7 | 712.9 | 667.8 | 424.2 | 346.0 | 622.6 | 54.0 | 39.7 | 69.4 |
| 87.5° | 2.2 | 2.2 | 114.6 | 205.0 | 130.0 | 59.5 | 109.1 | 89.3 | 11.0 | 15.4 | 12.1 |
| 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° | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 | 2558.7 |
| 2.5° | 2546.5 | 2504.7 | 2426.4 | 2349.3 | 2251.2 | 2170.8 | 2116.8 | 2060.6 | 2003.3 | 2007.7 | 2020.9 |
| 5° | 2502.5 | 2429.7 | 2275.5 | 2112.4 | 1955.9 | 1814.9 | 1676.0 | 1551.5 | 1500.8 | 1454.5 | 1456.7 |
| 7.5° | 2458.4 | 2355.9 | 2130.0 | 1874.4 | 1637.4 | 1397.2 | 1223.1 | 1079.9 | 1003.8 | 946.5 | 930.0 |
| 10° | 2438.5 | 2303.0 | 1996.7 | 1645.2 | 1309.1 | 1046.8 | 823.1 | 706.3 | 616.0 | 587.3 | 595.0 |
| 12.5° | 2447.4 | 2276.6 | 1876.6 | 1438.0 | 1038.0 | 729.5 | 573.0 | 513.5 | 493.7 | 490.4 | 488.1 |
| 15° | 2463.9 | 2257.8 | 1758.7 | 1208.8 | 762.5 | 542.1 | 481.5 | 470.5 | 468.3 | 466.1 | 467.2 |
| 17.5° | 2485.9 | 2241.3 | 1633.0 | 993.9 | 585.1 | 473.8 | 456.2 | 450.7 | 449.6 | 449.6 | 449.6 |
| 20° | 2508.0 | 2222.6 | 1493.1 | 802.2 | 488.1 | 447.4 | 436.4 | 433.1 | 432.0 | 432.0 | 430.8 |
| 22.5° | 2533.3 | 2206.0 | 1350.9 | 630.3 | 449.6 | 428.6 | 418.7 | 416.5 | 415.4 | 414.3 | 414.3 |
| 25° | 2569.7 | 2185.1 | 1200.0 | 515.7 | 425.3 | 411.0 | 401.1 | 398.9 | 397.8 | 393.4 | 394.5 |
| 27.5° | 2618.2 | 2169.7 | 1044.6 | 445.2 | 403.3 | 389.0 | 382.4 | 379.1 | 376.9 | 373.5 | 374.7 |
| 30° | 2684.3 | 2156.5 | 879.3 | 406.6 | 378.0 | 365.8 | 359.2 | 357.0 | 354.8 | 351.5 | 351.5 |
| 32.5° | 2798.9 | 2162.0 | 705.2 | 375.8 | 354.8 | 340.5 | 333.9 | 331.7 | 329.5 | 326.2 | 326.2 |
| 35° | 2970.8 | 2193.9 | 564.2 | 349.3 | 327.3 | 312.9 | 306.3 | 306.3 | 303.0 | 298.6 | 297.5 |
| 37.5° | 3251.8 | 2275.5 | 452.9 | 324.0 | 300.8 | 287.6 | 279.9 | 277.7 | 274.4 | 267.8 | 266.7 |
| 40° | 3583.4 | 2402.2 | 381.3 | 298.6 | 276.6 | 263.4 | 256.7 | 250.1 | 241.3 | 234.7 | 233.6 |
| 42.5° | 4000.0 | 2532.2 | 330.6 | 273.3 | 253.4 | 241.3 | 233.6 | 222.6 | 209.4 | 200.5 | 199.4 |
| 45° | 4434.1 | 2651.2 | 296.4 | 250.1 | 231.4 | 221.5 | 212.7 | 195.0 | 178.5 | 167.5 | 166.4 |
| 47.5° | 4758.1 | 2673.2 | 268.9 | 228.1 | 212.7 | 202.8 | 190.6 | 168.6 | 146.6 | 136.6 | 133.3 |
| 50° | 4911.2 | 2566.4 | 240.2 | 206.1 | 193.9 | 182.9 | 167.5 | 142.1 | 117.9 | 105.8 | 103.6 |
| 52.5° | 4965.2 | 2381.2 | 217.1 | 186.2 | 175.2 | 162.0 | 143.2 | 114.6 | 92.6 | 80.4 | 79.3 |
| 55° | 4943.2 | 2147.6 | 196.1 | 167.5 | 153.2 | 137.7 | 119.0 | 91.5 | 68.3 | 58.4 | 56.2 |
| 57.5° | 4827.5 | 1850.1 | 175.2 | 148.8 | 131.1 | 115.7 | 94.8 | 68.3 | 46.3 | 37.5 | 36.4 |
| 60° | 4515.7 | 1444.6 | 154.3 | 127.8 | 111.3 | 94.8 | 74.9 | 48.5 | 28.6 | 20.9 | 20.9 |
| 62.5° | 3988.9 | 1072.2 | 134.4 | 106.9 | 93.7 | 76.0 | 52.9 | 30.9 | 15.4 | 11.0 | 9.9 |
| 65° | 3333.3 | 791.2 | 112.4 | 90.4 | 78.2 | 59.5 | 37.5 | 18.7 | 7.7 | 3.3 | 2.2 |
| 67.5° | 2326.1 | 488.1 | 93.7 | 73.8 | 63.9 | 43.0 | 23.1 | 7.7 | 3.3 | 0.0 | 0.0 |
| 70° | 1056.7 | 232.5 | 71.6 | 56.2 | 48.5 | 30.9 | 12.1 | 4.4 | 2.2 | 0.0 | 0.0 |
| 72.5° | 328.4 | 122.3 | 50.7 | 40.8 | 33.1 | 19.8 | 6.6 | 3.3 | 2.2 | 0.0 | 0.0 |
| 75° | 152.1 | 78.2 | 32.0 | 22.0 | 18.7 | 9.9 | 4.4 | 2.2 | 1.1 | 0.0 | 0.0 |
| 77.5° | 113.5 | 60.6 | 18.7 | 12.1 | 9.9 | 6.6 | 3.3 | 2.2 | 1.1 | 0.0 | 0.0 |
| 80° | 99.2 | 30.9 | 11.0 | 7.7 | 5.5 | 4.4 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 89.3 | 15.4 | 6.6 | 4.4 | 3.3 | 2.2 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 85° | 48.5 | 8.8 | 4.4 | 3.3 | 2.2 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.8 | 4.4 | 3.3 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 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)