

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: P456249

Luminaire Tested: **GALN-SA7C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29625 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

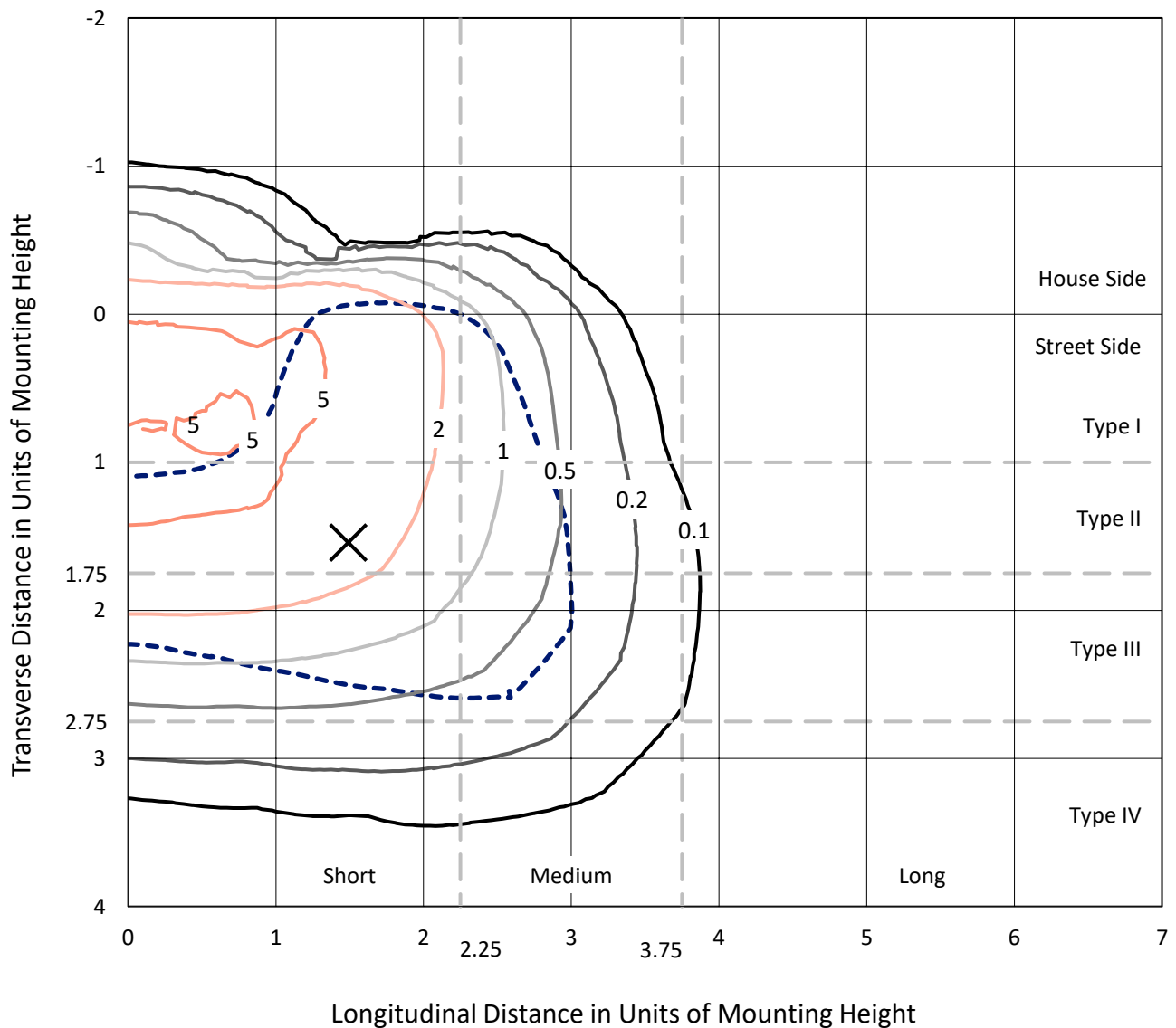
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

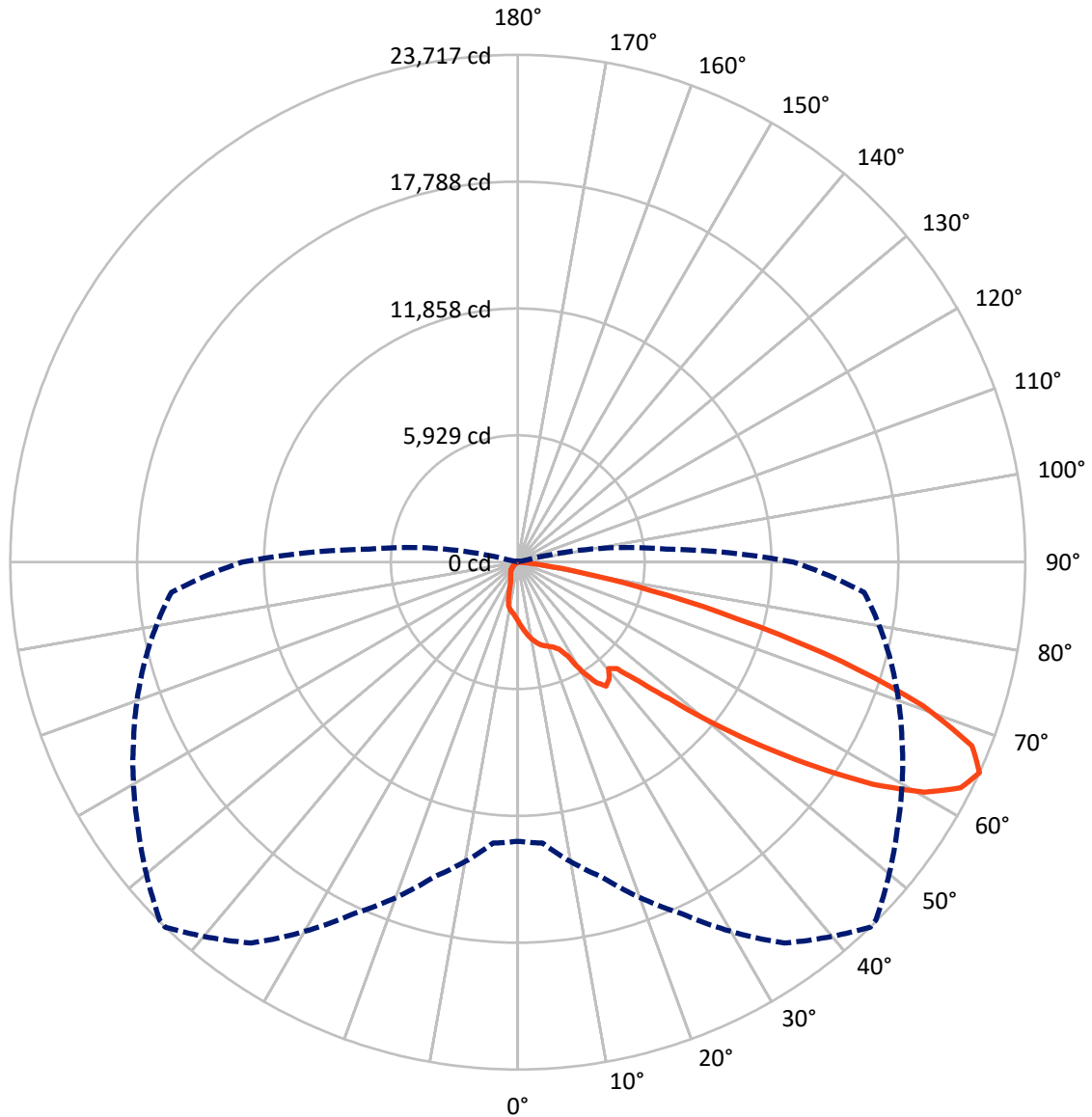
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2729.5 | 0.0 | 2729.5 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 26895.5 | 0.0 | 26895.5 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 29625.0 | 0.0 | 29625.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.2 | 0.9 |
| 10°-20° | 825.3 | 2.8 |
| 20°-30° | 1399.5 | 4.7 |
| 30°-40° | 2326.9 | 7.9 |
| 40°-50° | 4062.8 | 13.7 |
| 50°-60° | 7937.3 | 26.8 |
| 60°-70° | 9209.1 | 31.1 |
| 70°-80° | 3353.5 | 11.3 |
| 80°-90° | 236.3 | 0.8 |
| 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° | 29625.0 | 100.0 |
| 0°-180° | 29625.0 | 100.0 |



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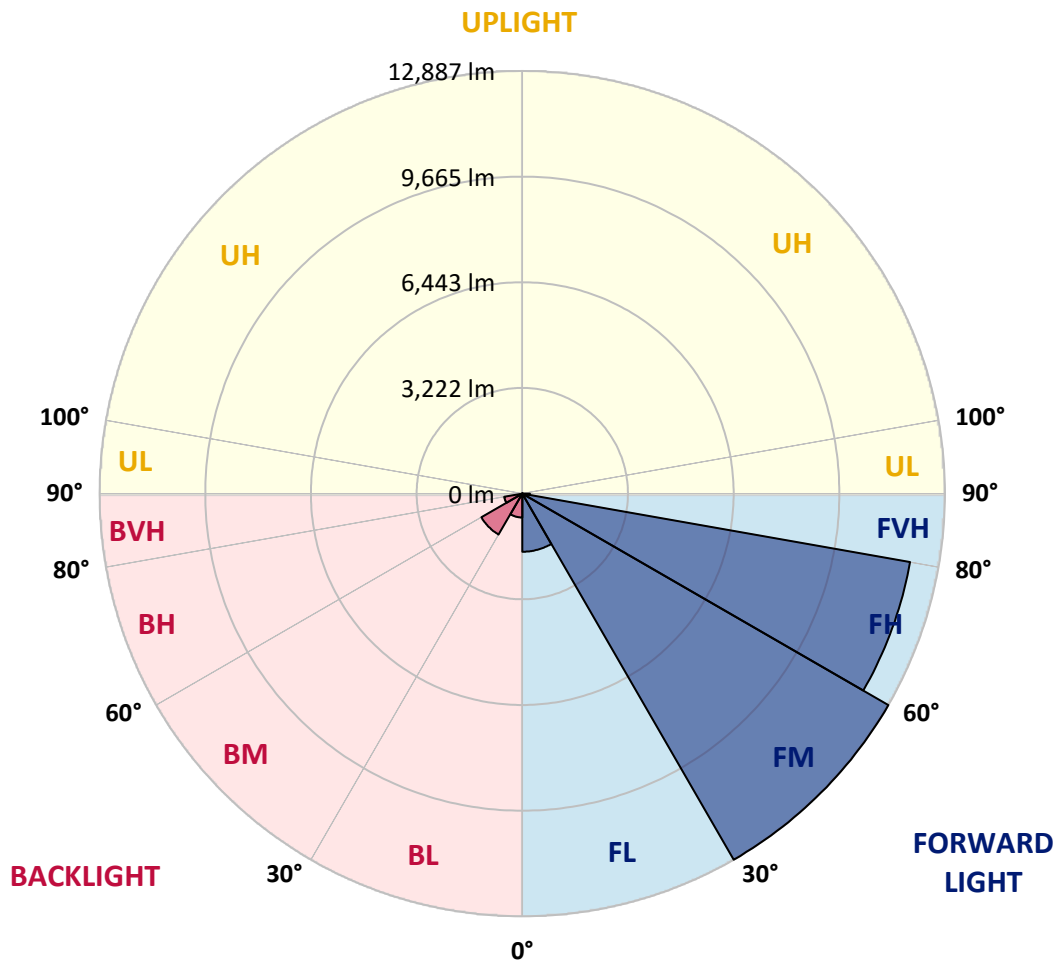
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1771.8 | 6.0 | | | |
| FM | (30°-60°) | 12886.9 | 43.5 | | | |
| FH | (60°-80°) | 12003.7 | 40.5 | | | G5 |
| FVH | (80°-90°) | 233.1 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 727.2 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1440.1 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 559.0 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 3.2 | 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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 |
| 2.5° | 3103.6 | 3090.0 | 3083.2 | 3047.0 | 3019.8 | 2985.8 | 2985.8 | 2942.8 | 2893.0 | 2838.7 | 2788.9 |
| 5° | 3449.9 | 3427.3 | 3397.8 | 3366.1 | 3302.8 | 3212.2 | 3212.2 | 3121.7 | 3017.5 | 2924.7 | 2822.9 |
| 7.5° | 3782.7 | 3762.3 | 3712.5 | 3651.4 | 3547.2 | 3452.2 | 3445.4 | 3314.1 | 3189.6 | 3049.2 | 2904.3 |
| 10° | 4074.7 | 4058.8 | 4015.8 | 3898.1 | 3789.5 | 3665.0 | 3662.7 | 3515.5 | 3370.7 | 3198.6 | 3019.8 |
| 12.5° | 4278.4 | 4280.7 | 4224.1 | 4110.9 | 3970.6 | 3852.8 | 3843.8 | 3698.9 | 3547.2 | 3361.6 | 3142.0 |
| 15° | 4423.3 | 4423.3 | 4364.4 | 4237.7 | 4110.9 | 4006.8 | 3997.7 | 3871.0 | 3714.8 | 3513.3 | 3275.6 |
| 17.5° | 4464.0 | 4477.6 | 4414.2 | 4301.1 | 4199.2 | 4108.6 | 4106.4 | 4000.0 | 3875.5 | 3680.8 | 3411.4 |
| 20° | 4448.2 | 4461.8 | 4412.0 | 4323.7 | 4253.5 | 4201.5 | 4194.7 | 4151.7 | 4036.2 | 3852.8 | 3556.3 |
| 22.5° | 4414.2 | 4427.8 | 4391.6 | 4339.5 | 4305.6 | 4321.4 | 4310.1 | 4346.3 | 4285.2 | 4063.4 | 3728.3 |
| 25° | 4421.0 | 4434.6 | 4407.5 | 4378.0 | 4407.5 | 4504.8 | 4534.2 | 4690.4 | 4636.1 | 4330.5 | 3914.0 |
| 27.5° | 4633.8 | 4661.0 | 4622.5 | 4636.1 | 4740.2 | 4966.6 | 5023.2 | 5292.6 | 5052.6 | 4670.0 | 4203.7 |
| 30° | 5106.9 | 5088.8 | 5016.4 | 5082.0 | 5444.2 | 5924.1 | 5908.3 | 5865.3 | 5489.5 | 5061.7 | 4547.8 |
| 32.5° | 5537.0 | 5521.2 | 5516.7 | 5799.6 | 6456.1 | 6689.3 | 6678.0 | 6261.4 | 5881.1 | 5509.9 | 4887.4 |
| 35° | 5711.4 | 5650.2 | 5636.6 | 6322.6 | 7420.5 | 7112.6 | 7042.4 | 6424.4 | 6356.5 | 5998.8 | 5233.7 |
| 37.5° | 6236.5 | 6193.5 | 5983.0 | 6408.6 | 7035.6 | 6933.8 | 6879.4 | 6705.1 | 6863.6 | 6431.2 | 5625.3 |
| 40° | 7318.6 | 7198.6 | 7008.5 | 6591.9 | 6490.1 | 6533.1 | 6587.4 | 7065.1 | 7463.5 | 7022.0 | 6148.2 |
| 42.5° | 8663.2 | 8636.1 | 8282.9 | 7506.5 | 6743.6 | 6802.5 | 6872.6 | 7816.6 | 8325.9 | 7911.7 | 7001.7 |
| 45° | 10277.3 | 10315.7 | 9806.4 | 8889.6 | 7889.0 | 7938.8 | 8040.7 | 8925.8 | 9494.0 | 9294.8 | 8344.1 |
| 47.5° | 11744.1 | 11714.7 | 11542.7 | 10589.7 | 9666.1 | 9555.1 | 9720.4 | 10349.7 | 11110.3 | 11142.0 | 10010.1 |
| 50° | 13220.1 | 13376.3 | 13120.5 | 12747.0 | 12061.1 | 11827.9 | 11766.8 | 12074.7 | 13233.7 | 13082.0 | 12011.3 |
| 52.5° | 15341.2 | 15422.7 | 14942.8 | 14847.7 | 15003.9 | 14247.8 | 14186.7 | 14261.4 | 15298.2 | 14777.5 | 13509.8 |
| 55° | 16674.5 | 16627.0 | 16448.1 | 17190.6 | 17808.6 | 16864.7 | 16787.7 | 16486.6 | 17011.8 | 15975.0 | 14951.8 |
| 57.5° | 17095.6 | 17163.5 | 17580.0 | 18922.4 | 20384.7 | 19583.4 | 19443.0 | 18587.4 | 18247.8 | 17091.0 | 16278.4 |
| 60° | 16907.7 | 17032.2 | 17930.9 | 19927.5 | 21955.8 | 21835.8 | 21715.8 | 20278.4 | 19135.2 | 18023.7 | 17208.8 |
| 62.5° | 15569.8 | 15744.1 | 17181.6 | 19748.6 | 22487.7 | 23237.0 | 23087.6 | 21333.2 | 19726.0 | 18476.4 | 17371.7 |
| 65° | 13048.0 | 13177.1 | 15241.6 | 18125.6 | 21731.7 | 23716.9 | 23662.6 | 21663.7 | 19818.8 | 18062.2 | 16255.7 |
| 67.5° | 9301.6 | 9740.8 | 11653.6 | 15275.5 | 19495.1 | 22897.5 | 22990.3 | 21267.6 | 18947.3 | 16271.6 | 13462.3 |
| 70° | 5847.2 | 6146.0 | 7517.8 | 10936.0 | 15628.7 | 20088.2 | 20393.8 | 19454.4 | 16443.6 | 12683.6 | 9011.8 |
| 72.5° | 2788.9 | 3010.7 | 3988.7 | 6922.4 | 11031.1 | 15805.3 | 16047.5 | 15970.5 | 12715.3 | 7990.9 | 4649.7 |
| 75° | 1242.8 | 1326.5 | 1903.8 | 3533.7 | 7121.6 | 10623.6 | 11250.7 | 11354.8 | 7945.6 | 3909.4 | 1808.7 |
| 77.5° | 633.8 | 636.1 | 891.9 | 1711.4 | 3556.3 | 6338.4 | 6462.9 | 6827.4 | 4307.8 | 1722.7 | 629.3 |
| 80° | 337.3 | 359.9 | 473.1 | 808.1 | 1844.9 | 3121.7 | 3105.8 | 3413.7 | 1910.6 | 844.4 | 210.5 |
| 82.5° | 151.7 | 167.5 | 267.1 | 423.3 | 901.0 | 1183.9 | 1276.7 | 1396.7 | 819.5 | 538.8 | 92.8 |
| 85° | 45.3 | 54.3 | 131.3 | 212.8 | 326.0 | 341.8 | 382.6 | 493.5 | 464.1 | 382.6 | 47.5 |
| 87.5° | 6.8 | 6.8 | 54.3 | 58.9 | 47.5 | 61.1 | 63.4 | 70.2 | 149.4 | 140.4 | 24.9 |
| 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° | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 | 2757.2 |
| 2.5° | 2761.7 | 2745.9 | 2689.3 | 2641.8 | 2601.0 | 2576.1 | 2546.7 | 2528.6 | 2519.5 | 2512.7 | 2515.0 |
| 5° | 2773.1 | 2734.6 | 2637.2 | 2560.3 | 2501.4 | 2438.0 | 2395.0 | 2370.1 | 2358.8 | 2340.7 | 2340.7 |
| 7.5° | 2836.4 | 2775.3 | 2639.5 | 2521.8 | 2419.9 | 2333.9 | 2252.4 | 2223.0 | 2202.6 | 2198.1 | 2193.5 |
| 10° | 2927.0 | 2850.0 | 2664.4 | 2501.4 | 2356.5 | 2238.8 | 2123.4 | 2021.5 | 1942.3 | 1894.7 | 1887.9 |
| 12.5° | 3040.2 | 2929.2 | 2702.9 | 2487.8 | 2302.2 | 2093.9 | 1788.3 | 1582.3 | 1444.2 | 1401.2 | 1408.0 |
| 15° | 3144.3 | 3024.3 | 2741.4 | 2476.5 | 2202.6 | 1736.3 | 1389.9 | 1154.5 | 1084.3 | 1077.5 | 1079.8 |
| 17.5° | 3268.8 | 3126.2 | 2786.6 | 2460.7 | 1928.7 | 1326.5 | 1032.3 | 968.9 | 982.5 | 1005.1 | 1002.8 |
| 20° | 3397.8 | 3234.8 | 2841.0 | 2365.6 | 1539.3 | 998.3 | 912.3 | 919.1 | 939.4 | 959.8 | 964.3 |
| 22.5° | 3535.9 | 3359.4 | 2904.3 | 2136.9 | 1174.9 | 869.3 | 864.7 | 873.8 | 894.2 | 916.8 | 921.3 |
| 25° | 3726.1 | 3515.5 | 2951.9 | 1838.1 | 889.6 | 803.6 | 812.7 | 828.5 | 846.6 | 871.5 | 876.1 |
| 27.5° | 3970.6 | 3726.1 | 2976.8 | 1448.8 | 769.7 | 744.8 | 747.0 | 769.7 | 792.3 | 814.9 | 814.9 |
| 30° | 4287.5 | 3977.3 | 2927.0 | 1095.6 | 710.8 | 688.2 | 679.1 | 692.7 | 722.1 | 744.8 | 747.0 |
| 32.5° | 4570.4 | 4215.0 | 2795.7 | 837.6 | 667.8 | 636.1 | 613.5 | 615.7 | 627.0 | 640.6 | 642.9 |
| 35° | 4853.4 | 4445.9 | 2571.6 | 704.0 | 622.5 | 586.3 | 552.3 | 534.2 | 525.2 | 518.4 | 525.2 |
| 37.5° | 5215.6 | 4733.4 | 2272.8 | 640.6 | 584.0 | 538.8 | 491.2 | 452.7 | 421.1 | 400.7 | 405.2 |
| 40° | 5681.9 | 5131.8 | 1919.6 | 599.9 | 547.8 | 493.5 | 430.1 | 380.3 | 326.0 | 307.9 | 298.8 |
| 42.5° | 6451.6 | 5736.3 | 1548.4 | 565.9 | 511.6 | 446.0 | 366.7 | 298.8 | 249.0 | 230.9 | 235.4 |
| 45° | 7667.2 | 6499.1 | 1193.0 | 529.7 | 475.4 | 393.9 | 307.9 | 235.4 | 194.7 | 185.6 | 190.2 |
| 47.5° | 9279.0 | 7486.1 | 919.1 | 489.0 | 430.1 | 337.3 | 242.2 | 185.6 | 160.7 | 158.5 | 156.2 |
| 50° | 10795.7 | 8405.2 | 767.4 | 443.7 | 375.8 | 280.7 | 199.2 | 156.2 | 140.4 | 138.1 | 138.1 |
| 52.5° | 12167.5 | 9063.9 | 624.8 | 391.6 | 316.9 | 230.9 | 167.5 | 138.1 | 124.5 | 117.7 | 117.7 |
| 55° | 13387.6 | 9494.0 | 507.1 | 328.2 | 249.0 | 183.4 | 144.9 | 124.5 | 108.7 | 99.6 | 97.3 |
| 57.5° | 14308.9 | 9546.1 | 380.3 | 262.6 | 185.6 | 142.6 | 124.5 | 108.7 | 90.5 | 79.2 | 74.7 |
| 60° | 14702.8 | 9095.6 | 280.7 | 199.2 | 138.1 | 113.2 | 99.6 | 88.3 | 67.9 | 56.6 | 54.3 |
| 62.5° | 14306.7 | 8219.5 | 208.3 | 151.7 | 106.4 | 83.8 | 70.2 | 65.6 | 47.5 | 34.0 | 31.7 |
| 65° | 12887.3 | 6954.1 | 165.3 | 115.4 | 79.2 | 61.1 | 45.3 | 43.0 | 29.4 | 15.8 | 13.6 |
| 67.5° | 10324.8 | 5446.5 | 131.3 | 86.0 | 56.6 | 40.7 | 29.4 | 27.2 | 15.8 | 4.5 | 4.5 |
| 70° | 6714.2 | 3481.6 | 106.4 | 63.4 | 36.2 | 27.2 | 18.1 | 13.6 | 9.1 | 2.3 | 0.0 |
| 72.5° | 3320.9 | 1627.6 | 86.0 | 49.8 | 24.9 | 13.6 | 6.8 | 4.5 | 6.8 | 0.0 | 0.0 |
| 75° | 1288.1 | 579.5 | 63.4 | 34.0 | 13.6 | 6.8 | 4.5 | 0.0 | 2.3 | 0.0 | 0.0 |
| 77.5° | 427.8 | 192.4 | 38.5 | 18.1 | 9.1 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 158.5 | 74.7 | 20.4 | 11.3 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 63.4 | 29.4 | 13.6 | 9.1 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 31.7 | 18.1 | 9.1 | 6.8 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 22.6 | 13.6 | 9.1 | 6.8 | 4.5 | 2.3 | 0.0 | 0.0 | 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)