

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: P323630

Luminaire Tested: **GLEON-SA6A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17505 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

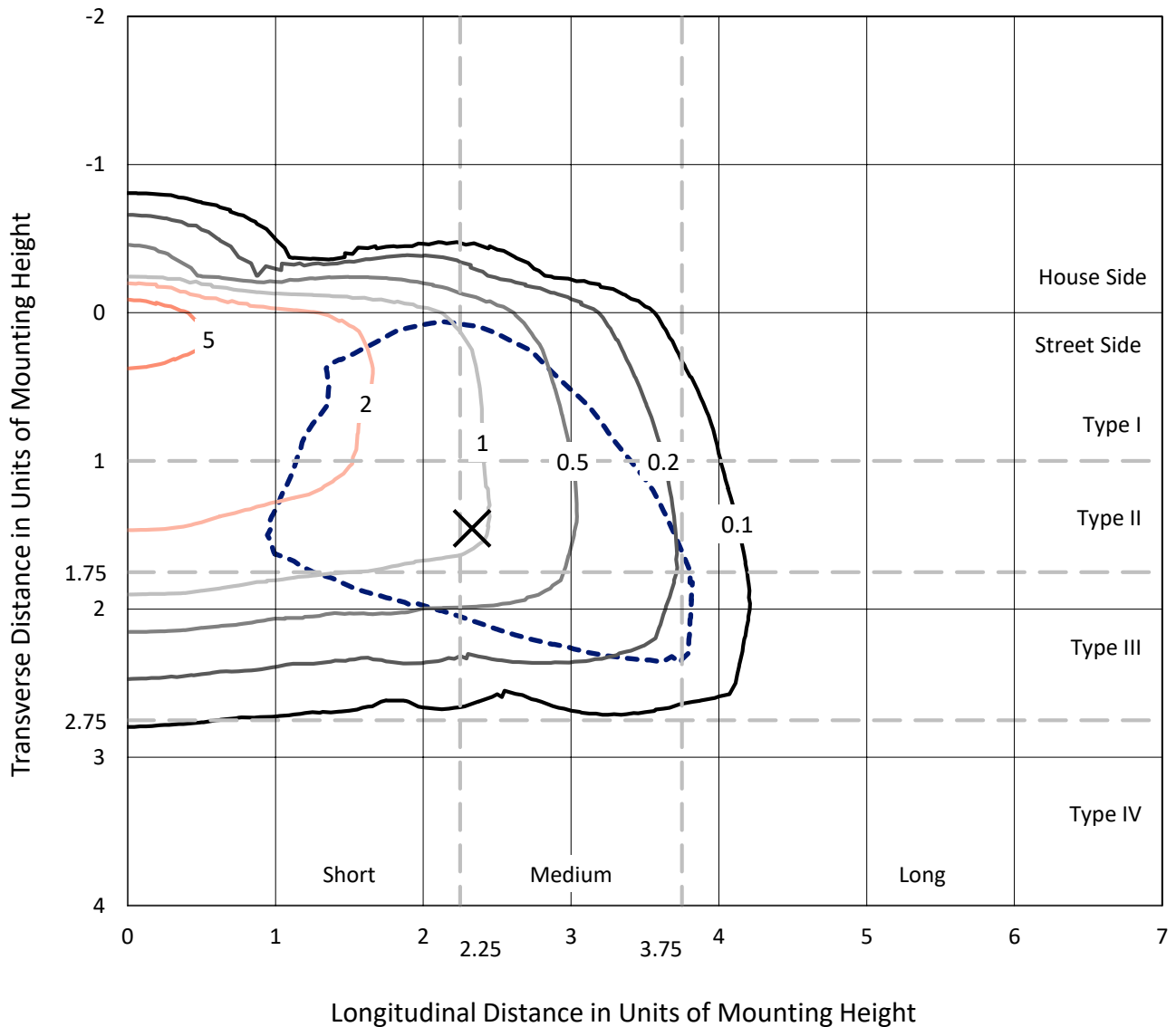
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

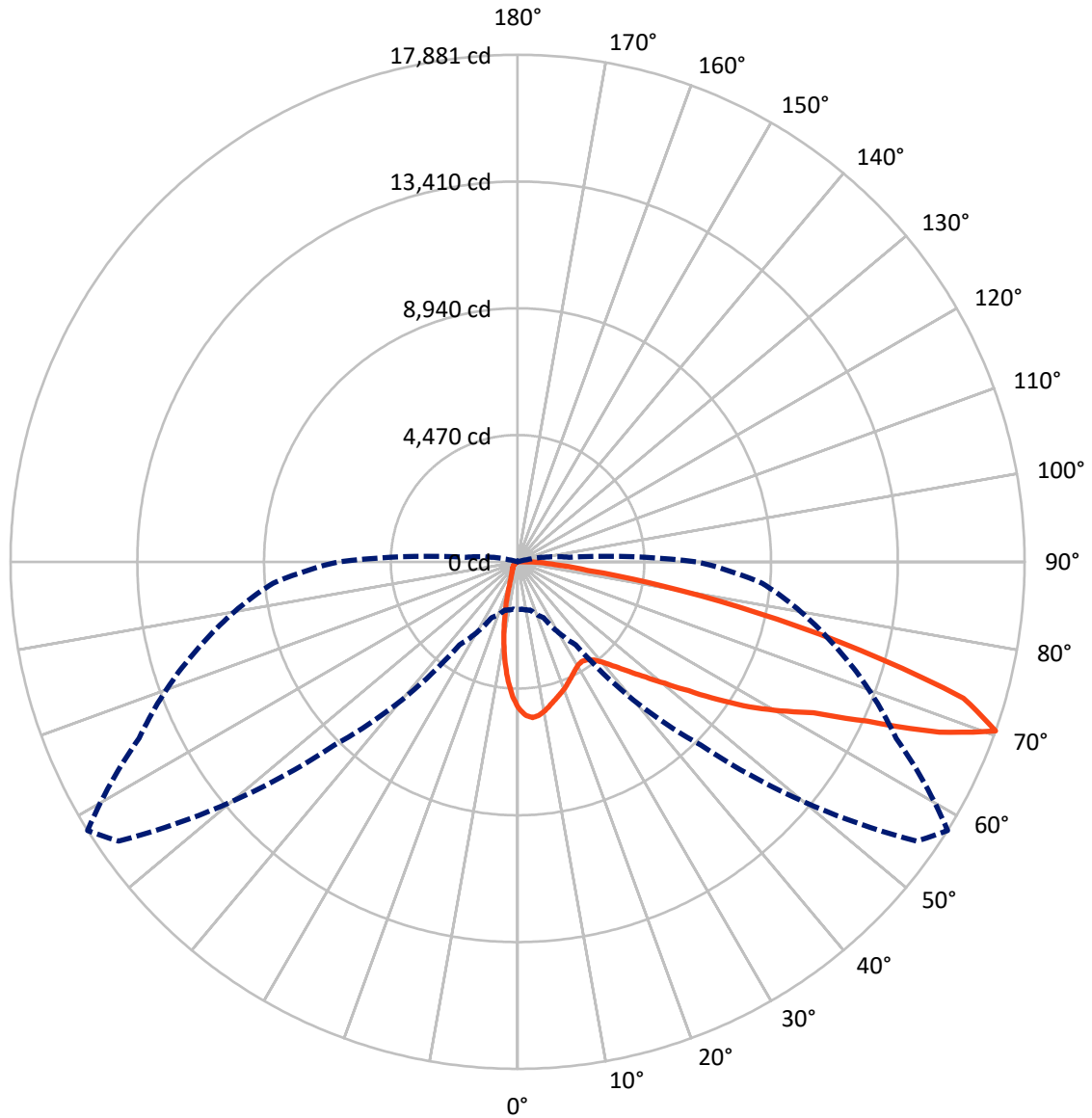
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1498.0 | 0.0 | 1498.0 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 16007.0 | 0.0 | 16007.0 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 17505.0 | 0.0 | 17505.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 422.8 | 2.4 |
| 10°-20° | 887.5 | 5.1 |
| 20°-30° | 1166.7 | 6.7 |
| 30°-40° | 1545.2 | 8.8 |
| 40°-50° | 2309.5 | 13.2 |
| 50°-60° | 3699.8 | 21.1 |
| 60°-70° | 4663.6 | 26.6 |
| 70°-80° | 2515.5 | 14.4 |
| 80°-90° | 294.4 | 1.7 |
| 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° | 17505.0 | 100.0 |
| 0°-180° | 17505.0 | 100.0 |

Coefficient of Utilization

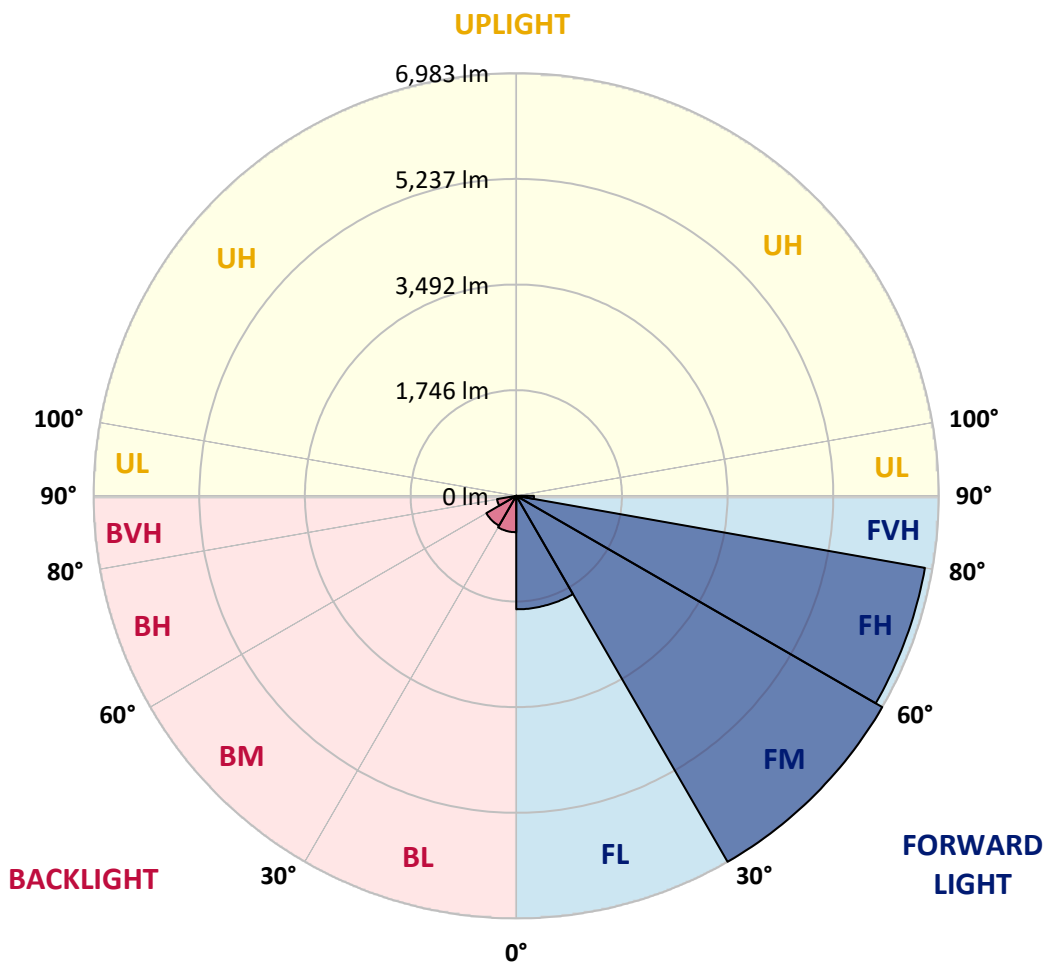


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1875.1 | 10.7 | | | |
| FM (30°-60°) | 6983.0 | 39.9 | | | |
| FH (60°-80°) | 6856.9 | 39.2 | | | G3/7500 |
| FVH (80°-90°) | 291.9 | 1.7 | | | G3/500 |
| BL (0°-30°) | 601.9 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 571.5 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 322.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 |
| 2.5° | 5599.6 | 5585.8 | 5580.7 | 5572.0 | 5538.5 | 5505.7 | 5440.9 | 5422.7 | 5382.0 | 5285.2 | 5182.5 |
| 5° | 5604.0 | 5603.3 | 5618.5 | 5614.9 | 5603.3 | 5588.0 | 5541.4 | 5517.4 | 5448.2 | 5309.9 | 5122.1 |
| 7.5° | 5333.9 | 5347.8 | 5382.0 | 5409.6 | 5441.7 | 5483.2 | 5489.0 | 5465.7 | 5408.9 | 5259.7 | 5010.8 |
| 10° | 4971.5 | 4993.3 | 5041.3 | 5095.9 | 5179.6 | 5262.6 | 5336.9 | 5333.9 | 5314.3 | 5167.3 | 4876.8 |
| 12.5° | 4608.2 | 4633.7 | 4689.0 | 4769.8 | 4888.5 | 5023.9 | 5156.3 | 5174.5 | 5207.3 | 5084.3 | 4753.1 |
| 15° | 4290.2 | 4312.0 | 4366.6 | 4465.6 | 4612.6 | 4794.6 | 4988.9 | 5022.4 | 5106.8 | 5019.5 | 4649.7 |
| 17.5° | 4020.1 | 4033.9 | 4074.0 | 4183.9 | 4354.2 | 4574.8 | 4827.3 | 4892.8 | 5018.8 | 4968.5 | 4560.2 |
| 20° | 3831.6 | 3833.8 | 3860.0 | 3937.1 | 4107.5 | 4354.2 | 4659.9 | 4753.8 | 4925.6 | 4924.9 | 4467.8 |
| 22.5° | 3738.4 | 3731.1 | 3736.2 | 3780.6 | 3905.8 | 4143.8 | 4492.5 | 4603.9 | 4841.9 | 4887.7 | 4373.9 |
| 25° | 3720.9 | 3715.1 | 3700.6 | 3706.4 | 3782.1 | 3959.7 | 4323.6 | 4452.5 | 4768.4 | 4865.2 | 4292.3 |
| 27.5° | 3775.5 | 3781.4 | 3756.6 | 3730.4 | 3736.2 | 3840.3 | 4173.7 | 4322.9 | 4708.7 | 4865.2 | 4234.8 |
| 30° | 3885.4 | 3888.4 | 3870.2 | 3836.0 | 3790.1 | 3806.8 | 4069.6 | 4218.8 | 4678.8 | 4898.7 | 4198.4 |
| 32.5° | 4007.0 | 4023.0 | 4020.8 | 3993.2 | 3927.7 | 3860.0 | 4044.9 | 4181.0 | 4676.7 | 4972.9 | 4194.8 |
| 35° | 4157.7 | 4175.9 | 4206.4 | 4200.6 | 4132.2 | 4020.8 | 4129.3 | 4236.3 | 4719.6 | 5095.2 | 4234.1 |
| 37.5° | 4317.8 | 4345.5 | 4411.0 | 4442.3 | 4397.9 | 4272.0 | 4318.5 | 4395.0 | 4834.6 | 5293.2 | 4333.8 |
| 40° | 4472.9 | 4504.2 | 4623.5 | 4746.5 | 4713.1 | 4583.5 | 4605.3 | 4666.5 | 5039.1 | 5577.8 | 4523.1 |
| 42.5° | 4625.0 | 4671.6 | 4847.0 | 5049.3 | 5089.4 | 4986.0 | 4997.7 | 5046.4 | 5342.7 | 5969.4 | 4832.4 |
| 45° | 4807.0 | 4859.4 | 5119.2 | 5368.9 | 5475.9 | 5430.7 | 5480.2 | 5512.3 | 5739.4 | 6486.9 | 5249.5 |
| 47.5° | 5074.1 | 5134.5 | 5453.3 | 5737.9 | 5925.7 | 5954.8 | 6054.5 | 6075.7 | 6240.9 | 7089.6 | 5793.2 |
| 50° | 5595.3 | 5612.0 | 5900.2 | 6158.6 | 6429.4 | 6604.1 | 6717.6 | 6733.7 | 6847.9 | 7748.3 | 6472.4 |
| 52.5° | 6251.1 | 6262.0 | 6425.0 | 6598.3 | 6906.2 | 7262.8 | 7528.5 | 7551.1 | 7575.1 | 8390.3 | 7142.7 |
| 55° | 6902.5 | 6901.1 | 7008.8 | 7110.7 | 7463.0 | 7981.3 | 8557.7 | 8571.6 | 8399.1 | 8999.6 | 7655.2 |
| 57.5° | 7309.4 | 7348.7 | 7512.5 | 7643.5 | 8135.6 | 8800.1 | 9600.1 | 9651.0 | 9264.5 | 9450.9 | 8161.8 |
| 60° | 7179.9 | 7198.8 | 7562.0 | 8046.8 | 8973.4 | 9964.0 | 10654.8 | 10667.9 | 9915.2 | 9901.4 | 8802.3 |
| 62.5° | 6117.1 | 6127.3 | 6698.0 | 7697.4 | 9397.7 | 11473.6 | 11927.1 | 11713.9 | 10663.5 | 10526.7 | 9568.8 |
| 65° | 4192.6 | 4258.9 | 4735.6 | 5970.8 | 8618.2 | 12420.6 | 13896.8 | 13543.8 | 11804.1 | 11427.8 | 10261.7 |
| 67.5° | 2469.0 | 2455.2 | 2691.0 | 3600.8 | 6329.7 | 11791.7 | 16388.3 | 16037.5 | 13359.6 | 12031.2 | 10058.6 |
| 70° | 1686.5 | 1677.0 | 1767.3 | 2180.0 | 3573.2 | 9147.3 | 17172.3 | 17880.5 | 14733.1 | 11625.0 | 8656.7 |
| 72.5° | 1203.9 | 1209.0 | 1342.2 | 1693.8 | 2243.3 | 5329.6 | 14767.3 | 16443.6 | 14302.9 | 10134.3 | 6580.1 |
| 75° | 817.4 | 831.2 | 1022.0 | 1389.5 | 1966.7 | 2711.4 | 10479.4 | 12500.0 | 11646.9 | 7365.5 | 3782.1 |
| 77.5° | 439.6 | 454.9 | 679.8 | 1119.5 | 1778.2 | 1883.8 | 6740.9 | 8602.9 | 7316.0 | 3311.1 | 1096.2 |
| 80° | 183.4 | 192.2 | 318.1 | 813.8 | 1536.6 | 1654.5 | 3966.2 | 5216.8 | 3117.5 | 652.9 | 244.6 |
| 82.5° | 79.3 | 83.7 | 132.5 | 485.5 | 1148.6 | 1396.8 | 2099.9 | 2509.7 | 944.8 | 143.4 | 123.0 |
| 85° | 15.3 | 16.0 | 54.6 | 256.9 | 733.0 | 788.3 | 1361.1 | 1334.2 | 424.4 | 61.9 | 89.5 |
| 87.5° | 0.0 | 0.0 | 13.1 | 80.8 | 215.5 | 429.5 | 830.5 | 820.3 | 144.1 | 29.8 | 33.5 |
| 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° | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 | 5170.9 |
| 2.5° | 5130.1 | 5079.9 | 4974.4 | 4844.1 | 4744.4 | 4634.4 | 4547.1 | 4436.5 | 4388.4 | 4390.6 | 4364.4 |
| 5° | 5015.1 | 4911.8 | 4678.1 | 4383.3 | 4156.2 | 3921.8 | 3720.2 | 3519.3 | 3400.7 | 3362.1 | 3325.7 |
| 7.5° | 4850.6 | 4686.9 | 4314.2 | 3860.0 | 3475.7 | 3100.1 | 2773.2 | 2485.7 | 2303.8 | 2215.0 | 2182.2 |
| 10° | 4665.0 | 4435.0 | 3895.6 | 3297.3 | 2748.5 | 2240.4 | 1816.8 | 1448.5 | 1301.5 | 1201.7 | 1176.3 |
| 12.5° | 4502.0 | 4190.4 | 3486.6 | 2720.1 | 2068.6 | 1455.8 | 1051.8 | 822.5 | 722.8 | 683.5 | 676.9 |
| 15° | 4348.4 | 3961.9 | 3092.8 | 2197.5 | 1432.5 | 896.0 | 668.9 | 591.0 | 567.8 | 561.2 | 561.2 |
| 17.5° | 4203.5 | 3744.2 | 2707.7 | 1682.9 | 947.7 | 628.2 | 553.9 | 536.5 | 529.2 | 528.4 | 529.2 |
| 20° | 4052.1 | 3526.6 | 2329.2 | 1233.0 | 661.6 | 532.1 | 511.7 | 502.2 | 500.1 | 500.1 | 500.1 |
| 22.5° | 3907.3 | 3309.0 | 1960.9 | 880.7 | 530.6 | 485.5 | 475.3 | 468.8 | 466.6 | 465.8 | 464.4 |
| 25° | 3768.3 | 3102.2 | 1601.3 | 622.3 | 465.8 | 444.7 | 436.0 | 427.3 | 420.7 | 417.1 | 414.9 |
| 27.5° | 3654.0 | 2918.1 | 1266.5 | 499.3 | 420.7 | 402.5 | 391.6 | 378.5 | 362.5 | 355.2 | 352.3 |
| 30° | 3563.0 | 2749.9 | 976.1 | 421.4 | 378.5 | 360.3 | 343.6 | 321.0 | 297.7 | 285.3 | 284.6 |
| 32.5° | 3491.7 | 2584.7 | 741.0 | 372.7 | 340.7 | 318.1 | 294.1 | 265.7 | 238.7 | 224.9 | 224.2 |
| 35° | 3456.7 | 2439.1 | 566.3 | 337.0 | 307.2 | 278.8 | 248.9 | 217.6 | 191.4 | 178.3 | 176.9 |
| 37.5° | 3480.0 | 2316.1 | 441.8 | 307.2 | 278.8 | 246.0 | 211.1 | 178.3 | 155.0 | 143.4 | 142.7 |
| 40° | 3565.2 | 2237.5 | 358.8 | 281.7 | 254.8 | 214.7 | 176.9 | 146.3 | 126.7 | 117.2 | 116.5 |
| 42.5° | 3746.4 | 2208.4 | 306.4 | 260.6 | 231.5 | 185.6 | 147.0 | 120.8 | 102.6 | 96.1 | 94.6 |
| 45° | 4049.2 | 2251.3 | 270.8 | 240.2 | 207.4 | 158.0 | 121.6 | 99.0 | 83.0 | 77.9 | 77.2 |
| 47.5° | 4452.5 | 2364.2 | 245.3 | 220.5 | 185.6 | 133.2 | 101.2 | 80.1 | 67.7 | 62.6 | 61.9 |
| 50° | 4972.2 | 2543.2 | 224.2 | 200.9 | 165.2 | 112.8 | 83.7 | 63.3 | 52.4 | 48.8 | 48.8 |
| 52.5° | 5537.7 | 2756.5 | 205.3 | 182.7 | 144.8 | 93.9 | 67.7 | 48.8 | 41.5 | 37.1 | 37.1 |
| 55° | 6005.1 | 2942.8 | 184.9 | 168.9 | 120.1 | 77.9 | 51.7 | 37.1 | 30.6 | 28.4 | 28.4 |
| 57.5° | 6471.6 | 3141.6 | 161.6 | 144.8 | 96.1 | 63.3 | 39.3 | 27.7 | 22.6 | 21.1 | 21.1 |
| 60° | 7076.5 | 3384.7 | 139.0 | 117.9 | 75.7 | 48.0 | 29.1 | 19.7 | 16.7 | 16.0 | 16.0 |
| 62.5° | 7741.8 | 3527.3 | 118.6 | 94.6 | 59.0 | 35.7 | 21.1 | 13.1 | 12.4 | 12.4 | 11.6 |
| 65° | 8148.7 | 3325.7 | 99.7 | 75.7 | 45.9 | 26.9 | 13.8 | 9.5 | 10.9 | 10.2 | 8.7 |
| 67.5° | 7629.7 | 2603.6 | 81.5 | 59.0 | 35.7 | 20.4 | 8.7 | 6.6 | 11.6 | 9.5 | 7.3 |
| 70° | 6317.3 | 1822.6 | 63.3 | 41.5 | 28.4 | 17.5 | 5.8 | 4.4 | 12.4 | 9.5 | 5.8 |
| 72.5° | 4727.6 | 1219.9 | 50.2 | 27.7 | 21.1 | 15.3 | 5.1 | 2.2 | 10.9 | 8.0 | 5.1 |
| 75° | 2583.3 | 491.3 | 40.0 | 17.5 | 13.1 | 10.9 | 3.6 | 1.5 | 7.3 | 5.8 | 3.6 |
| 77.5° | 679.8 | 129.6 | 29.1 | 11.6 | 7.3 | 4.4 | 2.2 | 0.7 | 3.6 | 2.9 | 1.5 |
| 80° | 173.2 | 50.2 | 18.9 | 8.0 | 5.1 | 2.2 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| 82.5° | 92.4 | 21.1 | 11.6 | 5.8 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 69.9 | 13.8 | 6.6 | 3.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.9 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 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)