

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: P455126

Luminaire Tested: **GALN-SA6B-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455126
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-SA6B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 27615 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

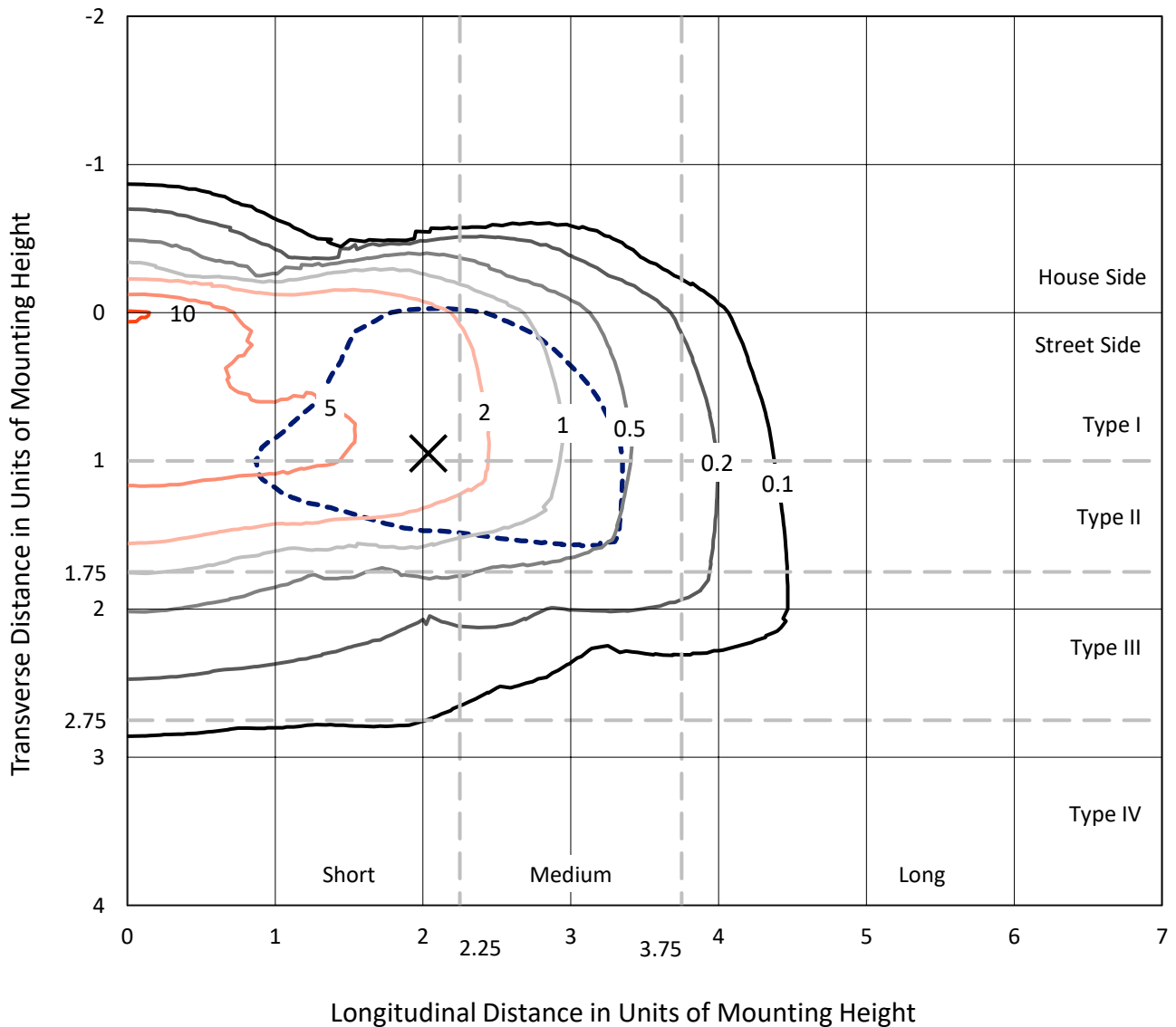
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

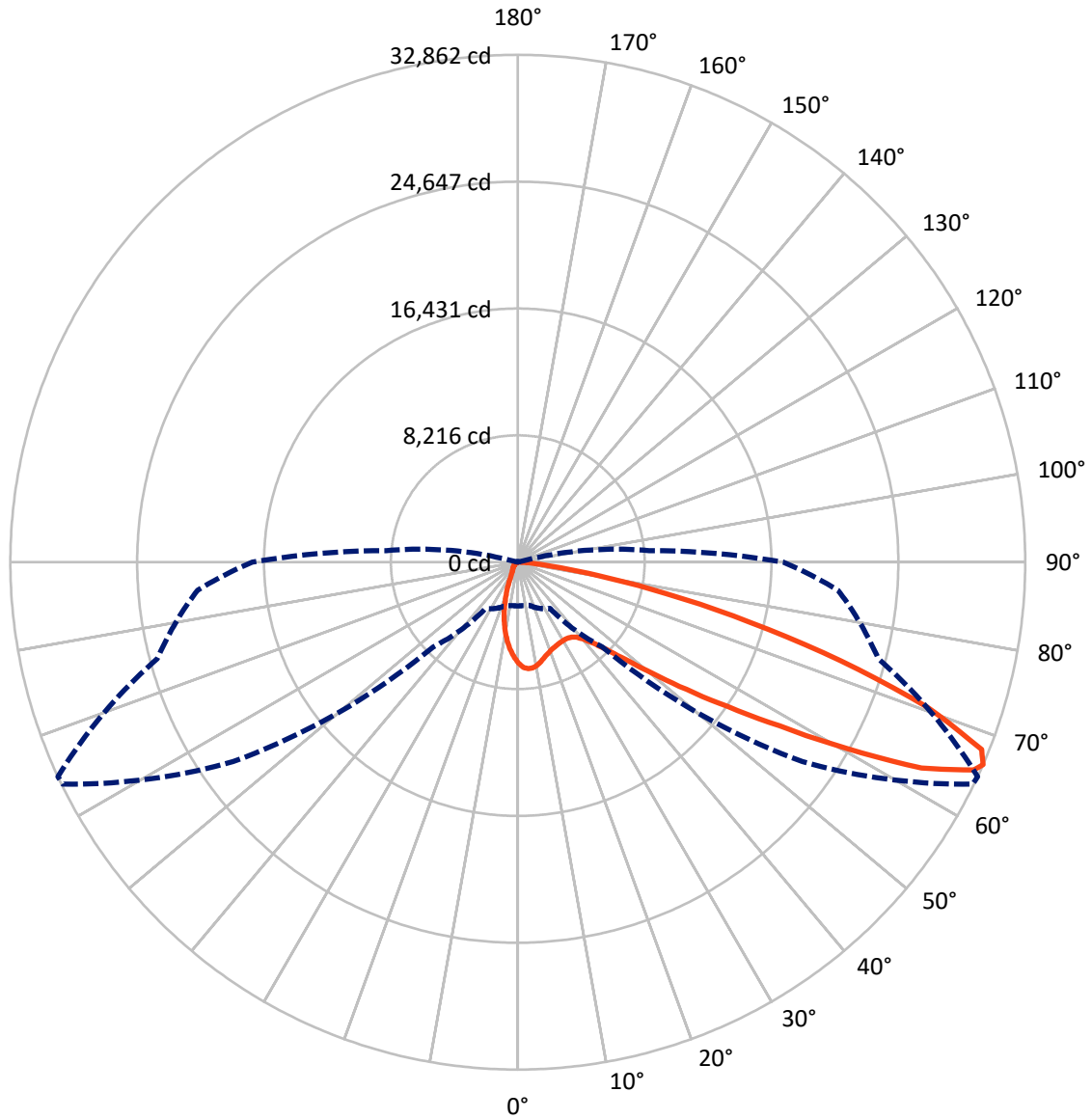
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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 | 2855.8 | 0.0 | 2855.8 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 24759.2 | 0.0 | 24759.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 27615.0 | 0.0 | 27615.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 535.6 | 1.9 |
| 10°-20° | 1166.9 | 4.2 |
| 20°-30° | 1671.6 | 6.1 |
| 30°-40° | 2441.6 | 8.8 |
| 40°-50° | 4094.1 | 14.8 |
| 50°-60° | 6832.3 | 24.7 |
| 60°-70° | 7252.3 | 26.3 |
| 70°-80° | 3284.6 | 11.9 |
| 80°-90° | 336.1 | 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° | 27615.0 | 100.0 |
| 0°-180° | 27615.0 | 100.0 |

Coefficient of Utilization



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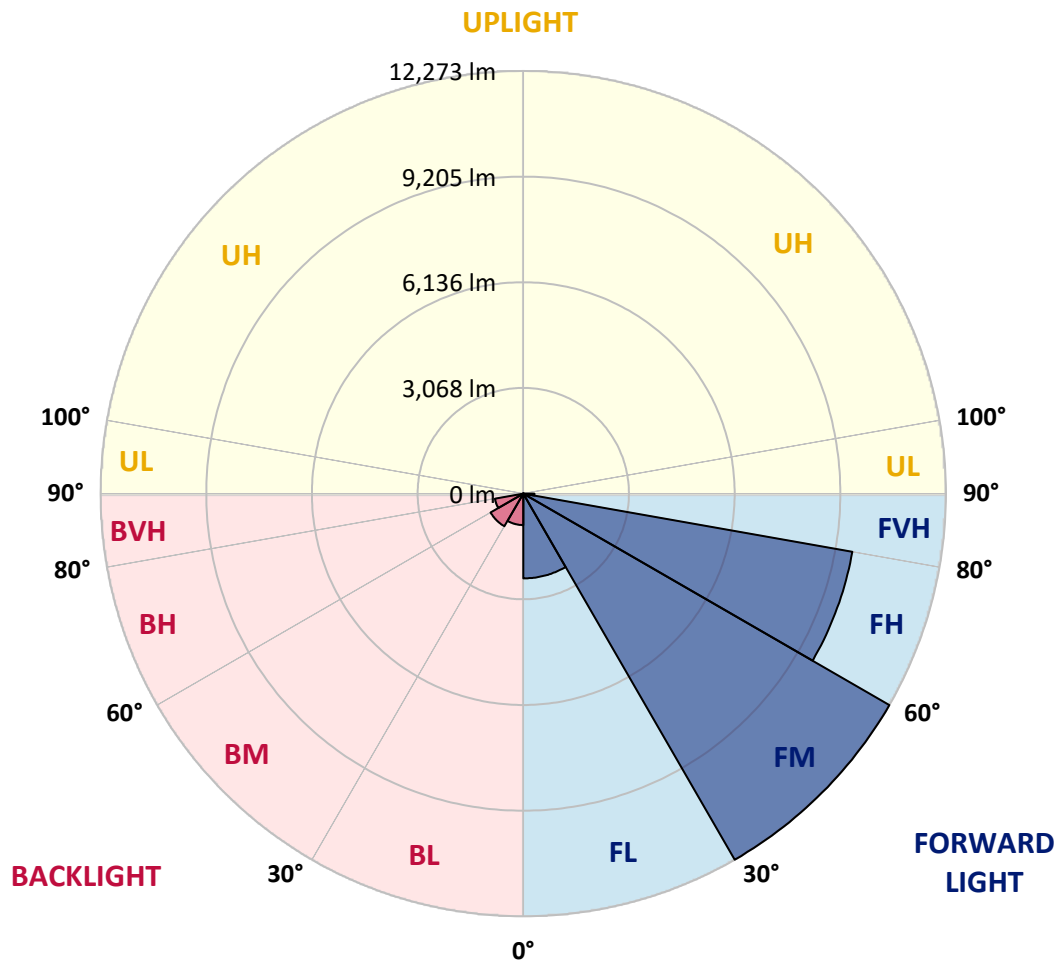
CATALOG NUMBER: GALN-SA6B-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2460.6 | 8.9 | | | |
| FM (30°-60°) | 12272.7 | 44.4 | | | |
| FH (60°-80°) | 9700.5 | 35.1 | | | G4/12000 |
| FVH (80°-90°) | 325.4 | 1.2 | | | G3/500 |
| BL (0°-30°) | 913.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1095.2 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 836.3 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.7 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 |
| 2.5° | 6901.0 | 6908.5 | 6917.8 | 6930.9 | 6940.2 | 6912.2 | 6873.1 | 6828.3 | 6819.0 | 6723.9 | 6608.2 |
| 5° | 6531.7 | 6542.9 | 6625.0 | 6669.8 | 6770.5 | 6861.9 | 6919.7 | 6927.2 | 6923.4 | 6833.9 | 6649.3 |
| 7.5° | 6005.8 | 6037.5 | 6117.7 | 6196.0 | 6384.4 | 6557.9 | 6763.0 | 6906.6 | 6916.0 | 6891.7 | 6662.3 |
| 10° | 5578.7 | 5599.2 | 5640.2 | 5795.0 | 5951.7 | 6216.5 | 6503.8 | 6774.2 | 6796.6 | 6893.6 | 6651.1 |
| 12.5° | 5244.8 | 5274.6 | 5325.0 | 5444.4 | 5632.7 | 5882.7 | 6209.1 | 6572.8 | 6619.4 | 6858.1 | 6619.4 |
| 15° | 5011.7 | 5026.6 | 5076.9 | 5194.4 | 5377.2 | 5608.5 | 5938.6 | 6362.0 | 6403.1 | 6811.5 | 6613.8 |
| 17.5° | 4901.6 | 4918.4 | 4953.8 | 5047.1 | 5198.2 | 5412.7 | 5735.3 | 6192.3 | 6244.5 | 6781.7 | 6634.3 |
| 20° | 4931.5 | 4946.4 | 4948.2 | 4996.7 | 5099.3 | 5280.2 | 5586.1 | 6033.8 | 6100.9 | 6763.0 | 6667.9 |
| 22.5° | 5101.2 | 5103.0 | 5080.7 | 5058.3 | 5093.7 | 5224.3 | 5494.7 | 5933.0 | 6002.0 | 6759.3 | 6707.1 |
| 25° | 5354.8 | 5360.4 | 5323.1 | 5244.8 | 5173.9 | 5241.1 | 5474.2 | 5867.8 | 5929.3 | 6750.0 | 6731.3 |
| 27.5° | 5705.5 | 5703.6 | 5692.4 | 5561.9 | 5360.4 | 5315.7 | 5491.0 | 5832.3 | 5884.5 | 6723.9 | 6740.6 |
| 30° | 6196.0 | 6181.1 | 6156.9 | 6009.5 | 5701.8 | 5496.6 | 5561.9 | 5809.9 | 5858.4 | 6686.6 | 6716.4 |
| 32.5° | 6679.1 | 6735.0 | 6731.3 | 6591.4 | 6207.2 | 5819.3 | 5709.2 | 5839.8 | 5875.2 | 6662.3 | 6681.0 |
| 35° | 7242.4 | 7240.5 | 7384.1 | 7331.9 | 6882.4 | 6231.5 | 5961.0 | 5938.6 | 5966.6 | 6679.1 | 6664.2 |
| 37.5° | 7764.6 | 7813.1 | 8036.9 | 8091.0 | 7680.7 | 6813.4 | 6317.3 | 6151.3 | 6160.6 | 6792.9 | 6705.2 |
| 40° | 8415.5 | 8508.8 | 8842.7 | 9023.6 | 8661.7 | 7676.9 | 6843.2 | 6541.1 | 6542.9 | 7072.6 | 6860.0 |
| 42.5° | 9254.9 | 9402.2 | 9713.7 | 10015.8 | 9821.9 | 8699.1 | 7632.2 | 7158.4 | 7154.7 | 7565.0 | 7214.4 |
| 45° | 10275.1 | 10377.7 | 10732.1 | 11211.4 | 11088.3 | 10125.9 | 8781.1 | 8115.3 | 8066.8 | 8372.6 | 7842.9 |
| 47.5° | 11155.5 | 11295.3 | 11655.3 | 12201.8 | 12761.3 | 11867.9 | 10153.9 | 9430.2 | 9398.5 | 9657.7 | 8921.0 |
| 50° | 11539.7 | 11662.8 | 12041.4 | 12808.0 | 14163.9 | 14154.6 | 12198.1 | 11349.4 | 11295.3 | 11435.2 | 10588.4 |
| 52.5° | 11118.1 | 11233.8 | 11616.1 | 12571.1 | 14824.2 | 16941.1 | 15159.9 | 13757.3 | 13692.1 | 13513.0 | 12580.4 |
| 55° | 9674.5 | 9769.6 | 10334.8 | 11431.5 | 14570.5 | 18798.8 | 19240.9 | 16732.2 | 16478.6 | 15782.9 | 14835.4 |
| 57.5° | 7703.1 | 7654.6 | 8005.2 | 9279.1 | 13082.1 | 19421.8 | 23430.0 | 20438.3 | 19985.1 | 17745.0 | 16743.4 |
| 60° | 5338.1 | 5487.3 | 5629.0 | 6468.3 | 9836.8 | 18341.9 | 26035.6 | 25097.4 | 24500.6 | 19675.4 | 18571.3 |
| 62.5° | 3924.3 | 4023.1 | 4116.4 | 4504.3 | 6184.8 | 14645.1 | 26496.3 | 29883.4 | 29353.7 | 21725.2 | 20315.2 |
| 65° | 3103.6 | 3111.1 | 3148.4 | 3530.7 | 4075.3 | 9523.4 | 24282.4 | 32582.3 | 32446.1 | 23698.6 | 21022.1 |
| 66° | 2827.6 | 2829.4 | 2887.2 | 3297.6 | 3657.6 | 7755.3 | 22508.6 | 32787.4 | 32862.0 | 24172.3 | 20815.1 |
| 67.5° | 2471.3 | 2463.9 | 2547.8 | 2963.7 | 3331.2 | 5591.7 | 19334.1 | 31955.6 | 32397.6 | 24536.0 | 20070.9 |
| 70° | 1915.5 | 1906.2 | 2008.8 | 2486.2 | 3068.2 | 3730.3 | 12850.9 | 27438.2 | 28150.7 | 23791.8 | 17758.1 |
| 72.5° | 1275.8 | 1283.2 | 1458.5 | 1962.1 | 2928.3 | 3284.5 | 7731.0 | 20872.9 | 21880.1 | 19647.5 | 13970.0 |
| 75° | 744.2 | 757.3 | 956.8 | 1458.5 | 2542.2 | 3131.6 | 4375.6 | 14883.9 | 15527.4 | 13567.1 | 8702.8 |
| 77.5° | 389.8 | 395.4 | 535.3 | 962.4 | 1949.1 | 2907.8 | 2915.2 | 9508.5 | 9810.7 | 6593.3 | 3444.9 |
| 80° | 207.0 | 201.4 | 287.2 | 580.1 | 1341.0 | 2553.4 | 2365.0 | 5034.0 | 5233.6 | 1958.4 | 871.0 |
| 82.5° | 78.3 | 85.8 | 152.9 | 380.5 | 792.7 | 1833.4 | 2036.7 | 2225.1 | 2156.1 | 430.8 | 365.6 |
| 85° | 14.9 | 18.7 | 65.3 | 225.7 | 399.1 | 766.6 | 1501.4 | 1091.1 | 1010.9 | 162.3 | 210.8 |
| 87.5° | 1.9 | 3.7 | 18.7 | 54.1 | 57.8 | 259.3 | 443.9 | 302.2 | 261.1 | 59.7 | 87.7 |
| 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° | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 | 6548.5 |
| 2.5° | 6552.3 | 6501.9 | 6334.0 | 6168.0 | 5998.3 | 5845.4 | 5740.9 | 5571.2 | 5528.3 | 5466.7 | 5431.3 |
| 5° | 6539.2 | 6421.7 | 6099.0 | 5746.5 | 5418.3 | 5063.9 | 4793.4 | 4532.3 | 4392.4 | 4321.5 | 4295.4 |
| 7.5° | 6501.9 | 6315.4 | 5811.8 | 5259.7 | 4733.7 | 4204.0 | 3743.4 | 3392.7 | 3167.0 | 3012.2 | 2907.8 |
| 10° | 6427.3 | 6169.9 | 5477.9 | 4718.8 | 3924.3 | 3224.8 | 2641.0 | 2197.1 | 1854.0 | 1745.8 | 1749.5 |
| 12.5° | 6350.8 | 6007.6 | 5104.9 | 4118.2 | 3133.4 | 2251.2 | 1632.0 | 1281.4 | 1117.2 | 1063.1 | 1051.9 |
| 15° | 6280.0 | 5852.8 | 4739.3 | 3536.3 | 2333.3 | 1458.5 | 1051.9 | 928.8 | 884.1 | 874.8 | 872.9 |
| 17.5° | 6242.7 | 5709.2 | 4349.5 | 2870.5 | 1628.3 | 990.4 | 843.0 | 809.5 | 796.4 | 787.1 | 783.4 |
| 20° | 6210.9 | 5584.3 | 3976.5 | 2247.5 | 1113.5 | 811.3 | 755.4 | 723.7 | 701.3 | 692.0 | 686.4 |
| 22.5° | 6188.6 | 5455.6 | 3590.4 | 1740.2 | 852.4 | 719.9 | 669.6 | 628.6 | 596.8 | 585.7 | 578.2 |
| 25° | 6155.0 | 5313.8 | 3200.6 | 1272.0 | 718.1 | 639.7 | 581.9 | 533.4 | 492.4 | 471.9 | 468.2 |
| 27.5° | 6106.5 | 5153.4 | 2773.5 | 941.9 | 641.6 | 568.9 | 498.0 | 438.3 | 397.3 | 374.9 | 376.8 |
| 30° | 6028.2 | 4985.5 | 2346.4 | 747.9 | 580.1 | 496.1 | 419.7 | 361.8 | 322.7 | 305.9 | 304.0 |
| 32.5° | 5934.9 | 4782.2 | 1954.7 | 641.6 | 524.1 | 430.8 | 350.6 | 300.3 | 270.4 | 257.4 | 255.5 |
| 35° | 5847.2 | 4577.1 | 1555.5 | 576.3 | 466.3 | 371.2 | 294.7 | 251.8 | 229.4 | 218.2 | 220.1 |
| 37.5° | 5798.7 | 4394.3 | 1212.3 | 524.1 | 419.7 | 318.9 | 253.7 | 216.4 | 195.8 | 186.5 | 184.6 |
| 40° | 5830.5 | 4245.1 | 964.3 | 477.5 | 367.4 | 274.2 | 218.2 | 186.5 | 166.0 | 152.9 | 152.9 |
| 42.5° | 5979.7 | 4179.8 | 777.8 | 432.7 | 318.9 | 236.9 | 190.2 | 160.4 | 138.0 | 125.0 | 126.8 |
| 45° | 6434.8 | 4248.8 | 650.9 | 391.7 | 274.2 | 205.2 | 164.1 | 132.4 | 111.9 | 102.6 | 100.7 |
| 47.5° | 7190.1 | 4508.1 | 563.3 | 348.8 | 235.0 | 175.3 | 138.0 | 110.0 | 89.5 | 82.1 | 80.2 |
| 50° | 8510.7 | 5043.4 | 498.0 | 305.9 | 199.6 | 149.2 | 113.8 | 87.7 | 70.9 | 63.4 | 63.4 |
| 52.5° | 10327.3 | 6210.9 | 451.4 | 257.4 | 167.9 | 126.8 | 93.3 | 70.9 | 56.0 | 50.4 | 48.5 |
| 55° | 12226.0 | 7441.9 | 427.1 | 216.4 | 139.9 | 104.4 | 74.6 | 56.0 | 42.9 | 37.3 | 35.4 |
| 57.5° | 14052.0 | 8408.1 | 399.1 | 175.3 | 111.9 | 80.2 | 57.8 | 42.9 | 29.8 | 26.1 | 24.2 |
| 60° | 15803.4 | 9189.6 | 339.5 | 139.9 | 87.7 | 57.8 | 42.9 | 29.8 | 20.5 | 16.8 | 16.8 |
| 62.5° | 17370.1 | 9644.7 | 266.7 | 111.9 | 67.1 | 41.0 | 28.0 | 22.4 | 14.9 | 11.2 | 11.2 |
| 65° | 17552.9 | 9053.4 | 201.4 | 85.8 | 48.5 | 26.1 | 16.8 | 16.8 | 11.2 | 7.5 | 7.5 |
| 66° | 17185.5 | 8551.7 | 177.2 | 78.3 | 42.9 | 22.4 | 14.9 | 13.1 | 9.3 | 5.6 | 5.6 |
| 67.5° | 16364.8 | 7695.6 | 152.9 | 67.1 | 35.4 | 16.8 | 11.2 | 11.2 | 7.5 | 3.7 | 3.7 |
| 70° | 14139.7 | 6285.5 | 121.2 | 50.4 | 26.1 | 13.1 | 7.5 | 7.5 | 5.6 | 3.7 | 3.7 |
| 72.5° | 10776.8 | 4692.7 | 98.9 | 37.3 | 18.7 | 9.3 | 5.6 | 5.6 | 5.6 | 3.7 | 3.7 |
| 75° | 6500.0 | 2527.3 | 76.5 | 28.0 | 16.8 | 7.5 | 3.7 | 5.6 | 7.5 | 5.6 | 3.7 |
| 77.5° | 2394.9 | 859.8 | 59.7 | 22.4 | 13.1 | 7.5 | 3.7 | 3.7 | 7.5 | 5.6 | 5.6 |
| 80° | 587.5 | 223.8 | 42.9 | 18.7 | 13.1 | 7.5 | 3.7 | 3.7 | 7.5 | 7.5 | 7.5 |
| 82.5° | 272.3 | 95.1 | 29.8 | 16.8 | 13.1 | 7.5 | 3.7 | 3.7 | 5.6 | 7.5 | 7.5 |
| 85° | 156.7 | 44.8 | 24.2 | 18.7 | 13.1 | 7.5 | 3.7 | 3.7 | 5.6 | 7.5 | 7.5 |
| 87.5° | 63.4 | 22.4 | 22.4 | 18.7 | 14.9 | 9.3 | 3.7 | 3.7 | 3.7 | 5.6 | 5.6 |
| 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)