

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: P458072

Luminaire Tested: **GALN-SA9C-722-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36683 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

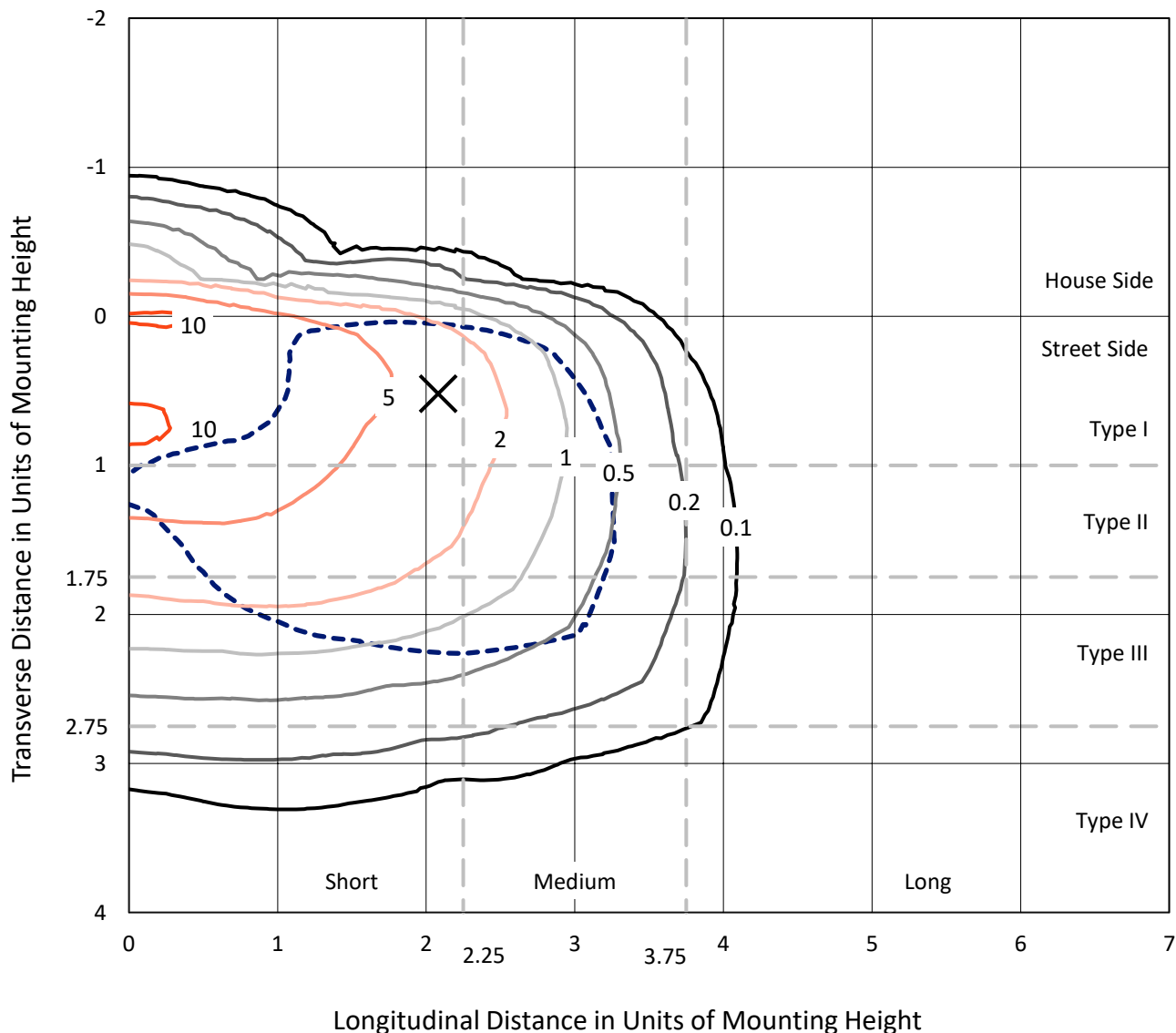
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

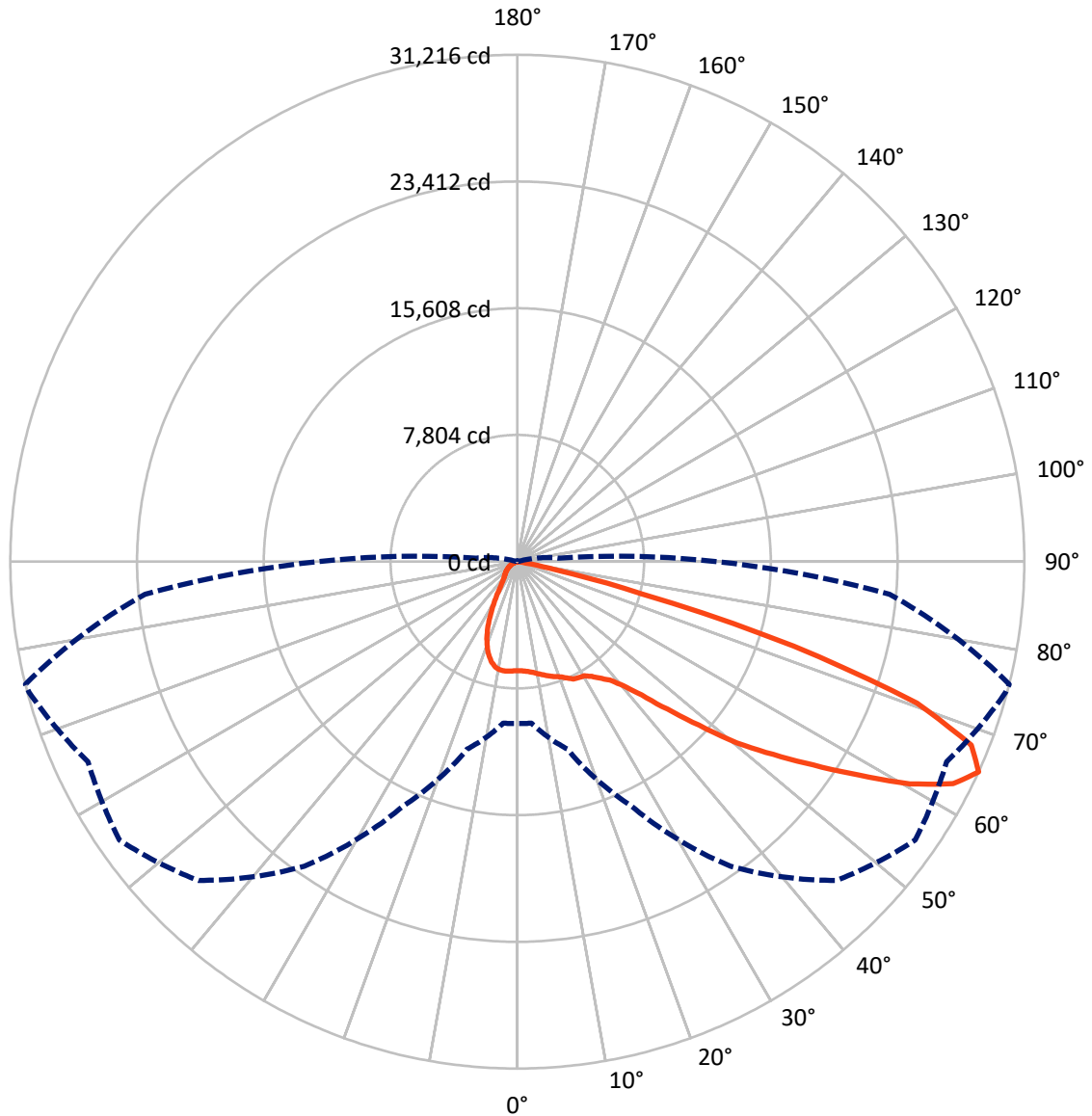
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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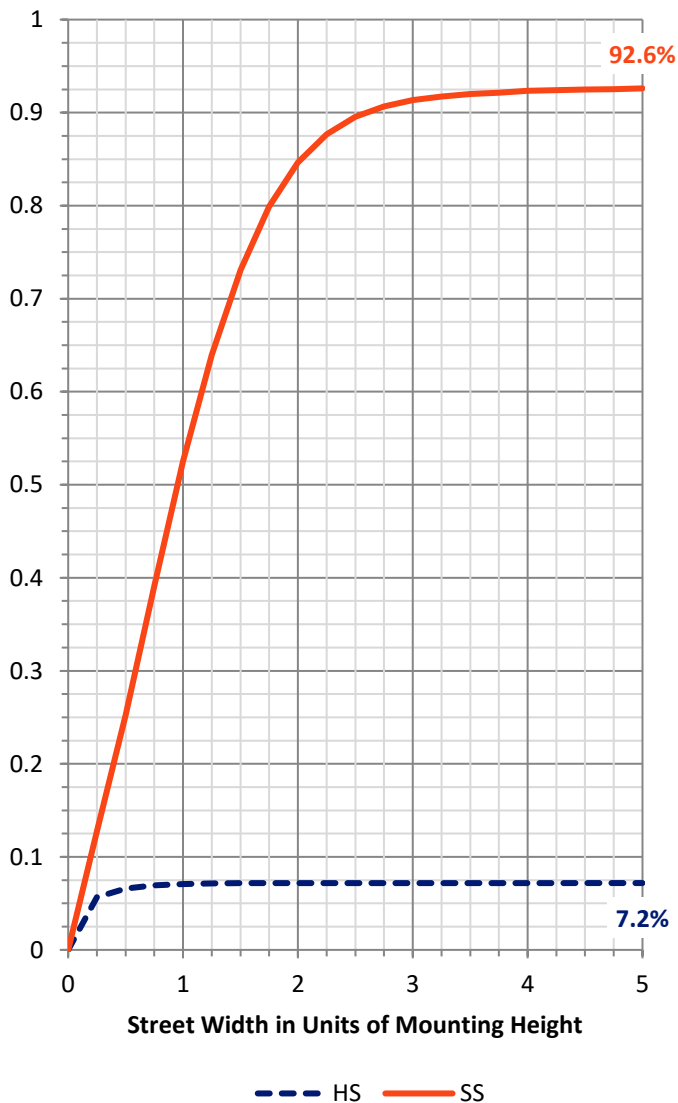
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2649.2 | 0.0 | 2649.2 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 34033.8 | 0.0 | 34033.8 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 36683.0 | 0.0 | 36683.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 552.8 | 1.5 |
| 10°-20° | 1230.8 | 3.4 |
| 20°-30° | 1983.4 | 5.4 |
| 30°-40° | 3448.6 | 9.4 |
| 40°-50° | 5698.6 | 15.5 |
| 50°-60° | 8803.1 | 24.0 |
| 60°-70° | 10749.8 | 29.3 |
| 70°-80° | 4079.8 | 11.1 |
| 80°-90° | 136.2 | 0.4 |
| 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° | 36683.0 | 100.0 |
| 0°-180° | 36683.0 | 100.0 |

Coefficient of Utilization



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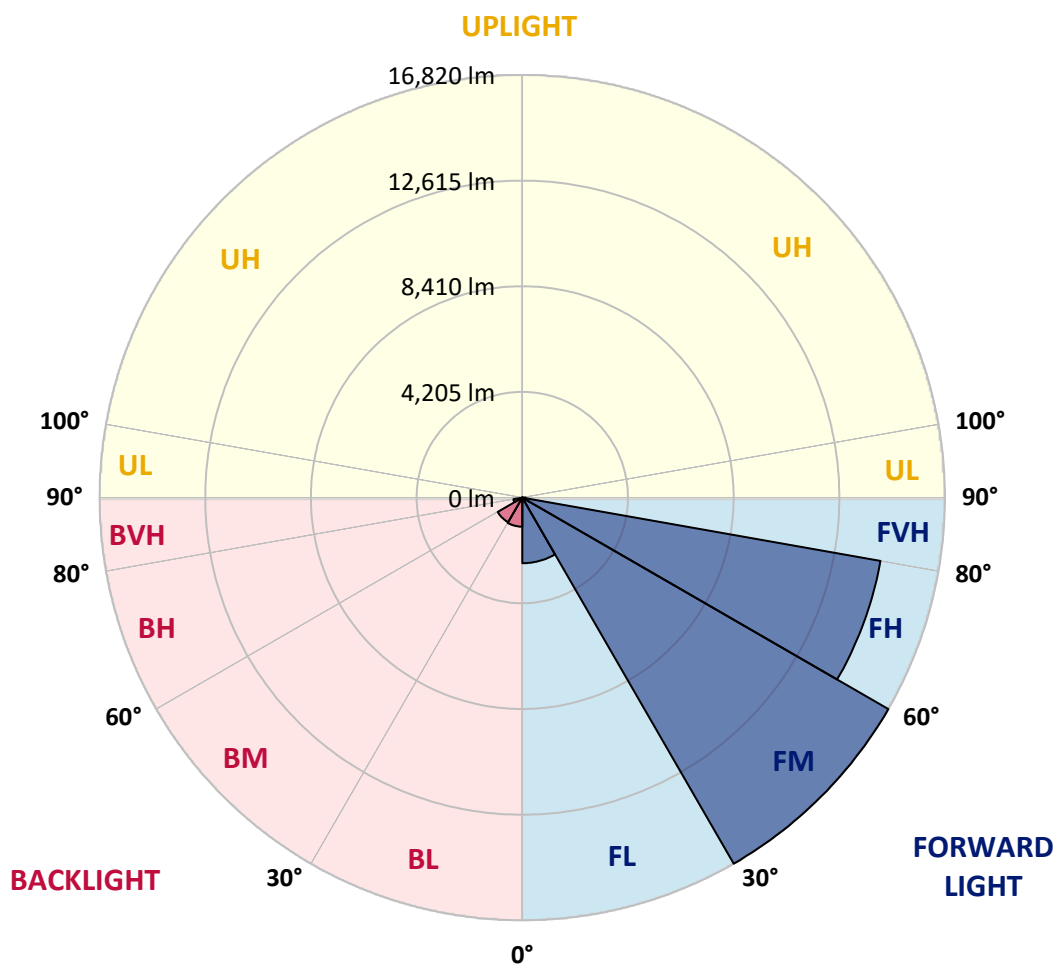
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 2609.6 | 7.1 | | | |
| FM | (30°-60°) | 16819.7 | 45.9 | | | |
| FH | (60°-80°) | 14470.2 | 39.4 | | | G5 |
| FVH | (80°-90°) | 134.3 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1157.4 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 1130.5 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 359.5 | 1.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.9 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 |
| 2.5° | 6412.7 | 6415.2 | 6430.8 | 6469.6 | 6529.2 | 6578.4 | 6619.8 | 6687.2 | 6733.8 | 6739.0 | 6754.5 |
| 5° | 5969.8 | 5938.7 | 5969.8 | 6070.8 | 6161.4 | 6298.7 | 6467.0 | 6635.4 | 6785.6 | 6796.0 | 6868.5 |
| 7.5° | 5472.5 | 5498.4 | 5547.6 | 5651.2 | 5822.1 | 6031.9 | 6275.4 | 6575.8 | 6860.7 | 6886.6 | 7029.1 |
| 10° | 4967.5 | 5024.5 | 5104.7 | 5262.7 | 5501.0 | 5772.9 | 6104.4 | 6534.4 | 6979.8 | 7016.1 | 7262.1 |
| 12.5° | 4501.3 | 4527.2 | 4625.6 | 4838.0 | 5133.2 | 5516.5 | 5975.0 | 6511.1 | 7111.9 | 7156.0 | 7510.8 |
| 15° | 4143.9 | 4177.5 | 4263.0 | 4454.7 | 4783.6 | 5275.7 | 5868.8 | 6503.3 | 7241.4 | 7303.6 | 7759.4 |
| 17.5° | 4076.5 | 4097.3 | 4133.5 | 4263.0 | 4550.5 | 5084.0 | 5772.9 | 6500.7 | 7365.7 | 7440.8 | 7989.9 |
| 20° | 4353.7 | 4335.5 | 4299.3 | 4286.3 | 4444.3 | 4936.4 | 5703.0 | 6521.4 | 7484.9 | 7570.3 | 8233.4 |
| 22.5° | 5047.8 | 5071.1 | 4858.7 | 4607.5 | 4555.7 | 4913.1 | 5692.7 | 6619.8 | 7673.9 | 7774.9 | 8505.3 |
| 25° | 6521.4 | 6342.7 | 6011.2 | 5410.3 | 4957.1 | 5055.5 | 5809.2 | 6852.9 | 7894.1 | 8005.5 | 8751.4 |
| 27.5° | 8150.5 | 8096.1 | 7580.7 | 6591.4 | 5747.0 | 5356.0 | 6016.4 | 7031.6 | 7966.6 | 8080.6 | 8891.2 |
| 30° | 9751.1 | 9815.8 | 9225.3 | 8132.4 | 6894.4 | 5912.8 | 6210.6 | 7099.0 | 8031.4 | 8150.5 | 9069.9 |
| 32.5° | 11235.1 | 11312.8 | 10794.8 | 9712.2 | 8246.3 | 6876.2 | 6544.7 | 7360.6 | 8303.3 | 8425.0 | 9367.8 |
| 35° | 12403.1 | 12413.5 | 12022.4 | 11160.0 | 9722.6 | 8046.9 | 7267.3 | 7819.0 | 8671.1 | 8813.5 | 9683.7 |
| 37.5° | 13475.4 | 13459.8 | 13001.4 | 12258.1 | 10952.8 | 9209.8 | 8176.4 | 8347.3 | 9090.6 | 9238.3 | 10139.5 |
| 40° | 14270.5 | 14280.8 | 14133.2 | 13433.9 | 12100.1 | 10284.6 | 8896.4 | 8842.0 | 9795.1 | 10025.6 | 10802.6 |
| 42.5° | 14801.4 | 14897.2 | 14969.8 | 14614.9 | 13542.7 | 11608.0 | 10002.3 | 9901.3 | 11017.5 | 11209.2 | 11740.1 |
| 45° | 15231.3 | 15402.3 | 15764.9 | 15746.7 | 14928.3 | 13231.9 | 11520.0 | 11312.8 | 12750.2 | 12954.8 | 12934.1 |
| 47.5° | 15544.7 | 15718.2 | 16319.1 | 16681.7 | 16231.0 | 14806.6 | 13428.8 | 13250.0 | 14819.5 | 15042.3 | 14252.3 |
| 50° | 15705.3 | 15912.5 | 16679.1 | 17381.0 | 17248.9 | 16324.3 | 15604.3 | 15614.6 | 17318.8 | 17533.8 | 15780.4 |
| 52.5° | 15329.8 | 15599.1 | 16870.8 | 18134.6 | 18391.0 | 17777.2 | 17642.6 | 17984.4 | 19543.6 | 19727.4 | 17160.8 |
| 55° | 14130.6 | 14469.9 | 16609.2 | 18776.9 | 19714.5 | 19491.8 | 19957.9 | 20478.5 | 21975.5 | 22094.6 | 18577.5 |
| 57.5° | 13371.8 | 13731.8 | 15837.4 | 19323.4 | 21304.7 | 21646.6 | 22384.7 | 22765.4 | 24485.1 | 24788.2 | 20204.0 |
| 60° | 12732.1 | 13014.4 | 15202.9 | 19440.0 | 22920.8 | 24283.1 | 25000.5 | 25394.2 | 27582.7 | 27779.5 | 21993.6 |
| 62.5° | 11667.6 | 11991.3 | 14130.6 | 18626.7 | 23734.1 | 26393.9 | 27880.5 | 27704.4 | 29978.4 | 30115.6 | 23091.8 |
| 65° | 9955.7 | 9984.2 | 11955.1 | 16583.3 | 22894.9 | 27764.0 | 29903.3 | 29165.1 | 31123.1 | 31216.3 | 23006.3 |
| 67.5° | 7430.5 | 7705.0 | 9196.8 | 13035.1 | 19339.0 | 26593.3 | 30558.5 | 29204.0 | 30400.5 | 30141.5 | 21180.4 |
| 70° | 4786.2 | 4996.0 | 6233.9 | 9038.8 | 13944.1 | 22193.1 | 28385.6 | 27202.0 | 26681.4 | 26106.4 | 17336.9 |
| 72.5° | 2209.2 | 2478.6 | 3703.6 | 5164.3 | 8269.6 | 15808.9 | 23042.5 | 22099.8 | 19204.3 | 17785.0 | 11020.1 |
| 75° | 963.5 | 1030.8 | 1828.5 | 2724.6 | 3877.1 | 8360.3 | 15192.5 | 13718.8 | 8673.7 | 7922.6 | 4410.6 |
| 77.5° | 587.9 | 631.9 | 958.3 | 1460.7 | 1522.9 | 3185.6 | 8184.2 | 5985.3 | 2680.6 | 2364.6 | 1196.5 |
| 80° | 398.8 | 448.1 | 696.7 | 764.0 | 520.6 | 888.3 | 3071.6 | 1598.0 | 541.3 | 518.0 | 256.4 |
| 82.5° | 194.2 | 246.0 | 515.4 | 427.3 | 225.3 | 284.9 | 893.5 | 341.9 | 158.0 | 147.6 | 90.6 |
| 85° | 28.5 | 49.2 | 290.1 | 279.7 | 101.0 | 67.3 | 158.0 | 85.5 | 54.4 | 51.8 | 41.4 |
| 87.5° | 0.0 | 0.0 | 98.4 | 44.0 | 10.4 | 10.4 | 18.1 | 18.1 | 20.7 | 18.1 | 20.7 |
| 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° | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 | 6710.5 |
| 2.5° | 6762.3 | 6775.2 | 6726.0 | 6656.1 | 6581.0 | 6505.9 | 6399.7 | 6303.9 | 6246.9 | 6280.6 | 6197.7 |
| 5° | 6884.0 | 6873.7 | 6744.2 | 6531.8 | 6249.5 | 5910.2 | 5573.5 | 5286.0 | 5192.8 | 5052.9 | 5037.4 |
| 7.5° | 7052.4 | 7023.9 | 6749.3 | 6262.4 | 5625.3 | 4988.2 | 4366.6 | 3954.8 | 3719.1 | 3519.7 | 3524.9 |
| 10° | 7288.0 | 7205.2 | 6689.8 | 5788.5 | 4739.6 | 3778.7 | 2986.2 | 2442.3 | 2206.6 | 2131.5 | 2071.9 |
| 12.5° | 7531.5 | 7370.9 | 6524.0 | 5148.8 | 3690.6 | 2582.2 | 1815.5 | 1484.0 | 1339.0 | 1292.4 | 1287.2 |
| 15° | 7749.1 | 7495.2 | 6233.9 | 4379.6 | 2683.2 | 1649.8 | 1238.0 | 1129.2 | 1111.1 | 1113.7 | 1111.1 |
| 17.5° | 7964.0 | 7593.7 | 5832.5 | 3563.7 | 1823.3 | 1183.6 | 1064.5 | 1038.6 | 1046.3 | 1056.7 | 1054.1 |
| 20° | 8142.7 | 7614.4 | 5319.7 | 2719.4 | 1289.8 | 1038.6 | 999.7 | 994.5 | 1002.3 | 1010.1 | 1010.1 |
| 22.5° | 8337.0 | 7629.9 | 4711.1 | 1882.9 | 1054.1 | 966.0 | 945.3 | 945.3 | 955.7 | 966.0 | 968.6 |
| 25° | 8482.0 | 7544.4 | 3983.3 | 1351.9 | 929.8 | 896.1 | 885.8 | 888.3 | 898.7 | 903.9 | 901.3 |
| 27.5° | 8505.3 | 7303.6 | 3211.5 | 1036.0 | 844.3 | 810.6 | 800.3 | 810.6 | 797.7 | 805.5 | 800.3 |
| 30° | 8526.0 | 6998.0 | 2429.3 | 872.8 | 766.6 | 714.8 | 699.3 | 683.7 | 673.4 | 660.4 | 657.8 |
| 32.5° | 8590.8 | 6638.0 | 1774.1 | 784.7 | 694.1 | 637.1 | 600.9 | 556.8 | 523.2 | 512.8 | 510.2 |
| 35° | 8619.3 | 6205.5 | 1302.7 | 714.8 | 629.4 | 567.2 | 502.4 | 440.3 | 391.1 | 372.9 | 385.9 |
| 37.5° | 8728.0 | 5785.9 | 1010.1 | 663.0 | 572.4 | 494.7 | 411.8 | 334.1 | 287.5 | 277.1 | 282.3 |
| 40° | 8950.8 | 5330.1 | 846.9 | 619.0 | 523.2 | 427.3 | 326.3 | 251.2 | 220.1 | 209.8 | 207.2 |
| 42.5° | 9308.2 | 4876.8 | 753.7 | 577.6 | 474.0 | 360.0 | 256.4 | 196.8 | 170.9 | 163.2 | 163.2 |
| 45° | 9743.3 | 4441.7 | 688.9 | 533.5 | 422.2 | 290.1 | 202.0 | 158.0 | 142.4 | 137.3 | 137.3 |
| 47.5° | 10315.7 | 4061.0 | 634.5 | 489.5 | 365.2 | 230.5 | 163.2 | 137.3 | 126.9 | 129.5 | 132.1 |
| 50° | 10895.8 | 3778.7 | 575.0 | 440.3 | 300.4 | 189.1 | 139.9 | 121.7 | 119.1 | 121.7 | 121.7 |
| 52.5° | 11333.5 | 3612.9 | 494.7 | 372.9 | 235.7 | 158.0 | 124.3 | 114.0 | 111.4 | 106.2 | 106.2 |
| 55° | 11924.0 | 3576.7 | 393.7 | 303.0 | 186.5 | 132.1 | 111.4 | 103.6 | 95.8 | 90.6 | 88.1 |
| 57.5° | 12682.9 | 3618.1 | 303.0 | 235.7 | 145.0 | 108.8 | 98.4 | 85.5 | 75.1 | 64.7 | 64.7 |
| 60° | 13154.2 | 3524.9 | 235.7 | 181.3 | 106.2 | 88.1 | 75.1 | 62.2 | 49.2 | 41.4 | 38.8 |
| 62.5° | 13004.0 | 3131.2 | 186.5 | 134.7 | 75.1 | 64.7 | 49.2 | 41.4 | 28.5 | 20.7 | 18.1 |
| 65° | 12229.6 | 2527.8 | 150.2 | 93.2 | 54.4 | 38.8 | 25.9 | 25.9 | 12.9 | 2.6 | 0.0 |
| 67.5° | 10704.2 | 1872.5 | 119.1 | 62.2 | 31.1 | 18.1 | 12.9 | 7.8 | 0.0 | 0.0 | 0.0 |
| 70° | 8712.5 | 1351.9 | 93.2 | 38.8 | 18.1 | 12.9 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5532.1 | 774.4 | 72.5 | 23.3 | 12.9 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2139.3 | 303.0 | 49.2 | 15.5 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 606.0 | 142.4 | 28.5 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 158.0 | 62.2 | 15.5 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 75.1 | 25.9 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 44.0 | 10.4 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.7 | 2.6 | 0.0 | 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)