

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: P647434

Luminaire Tested: **GALN-SA5D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17705.2 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

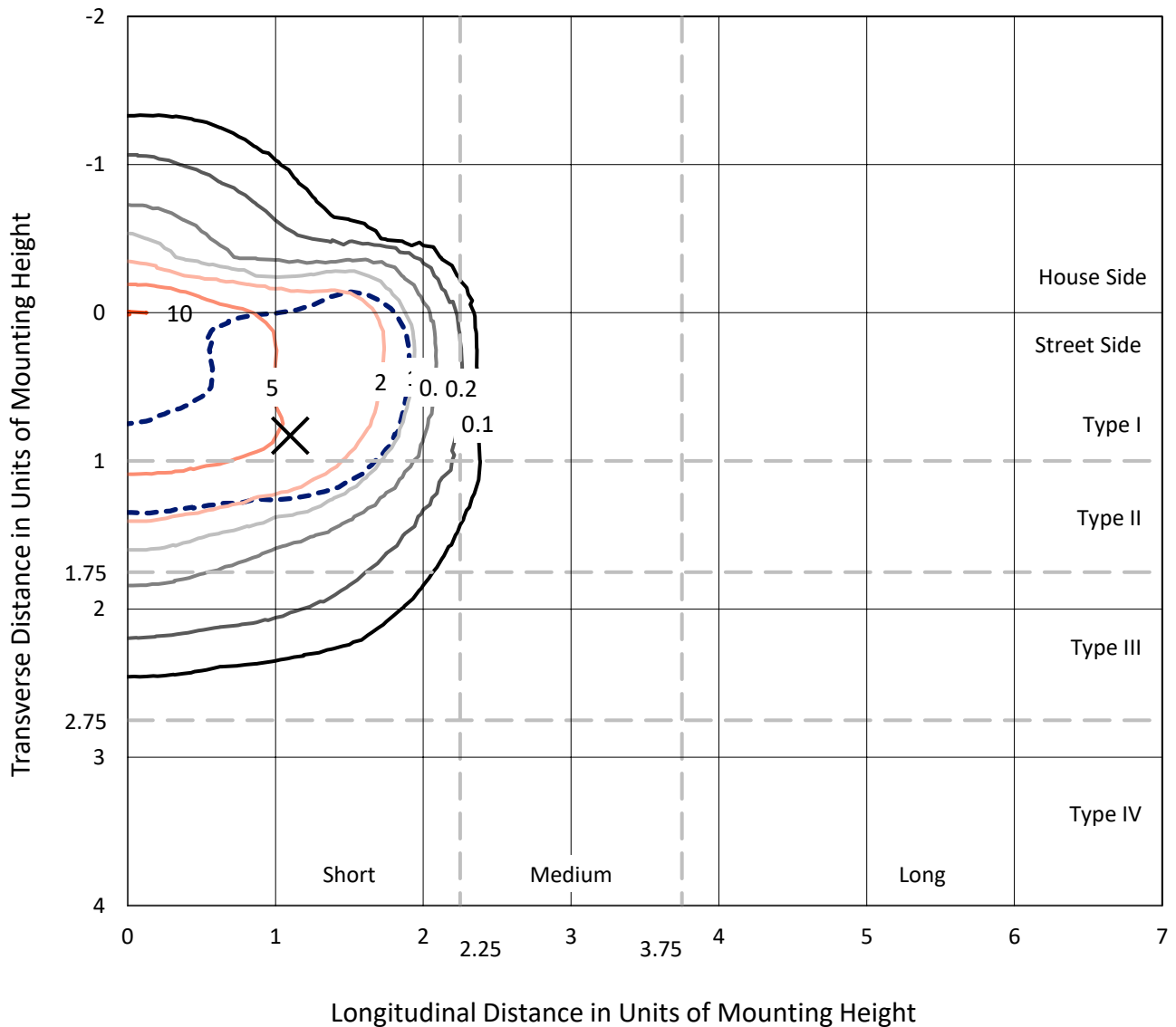
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

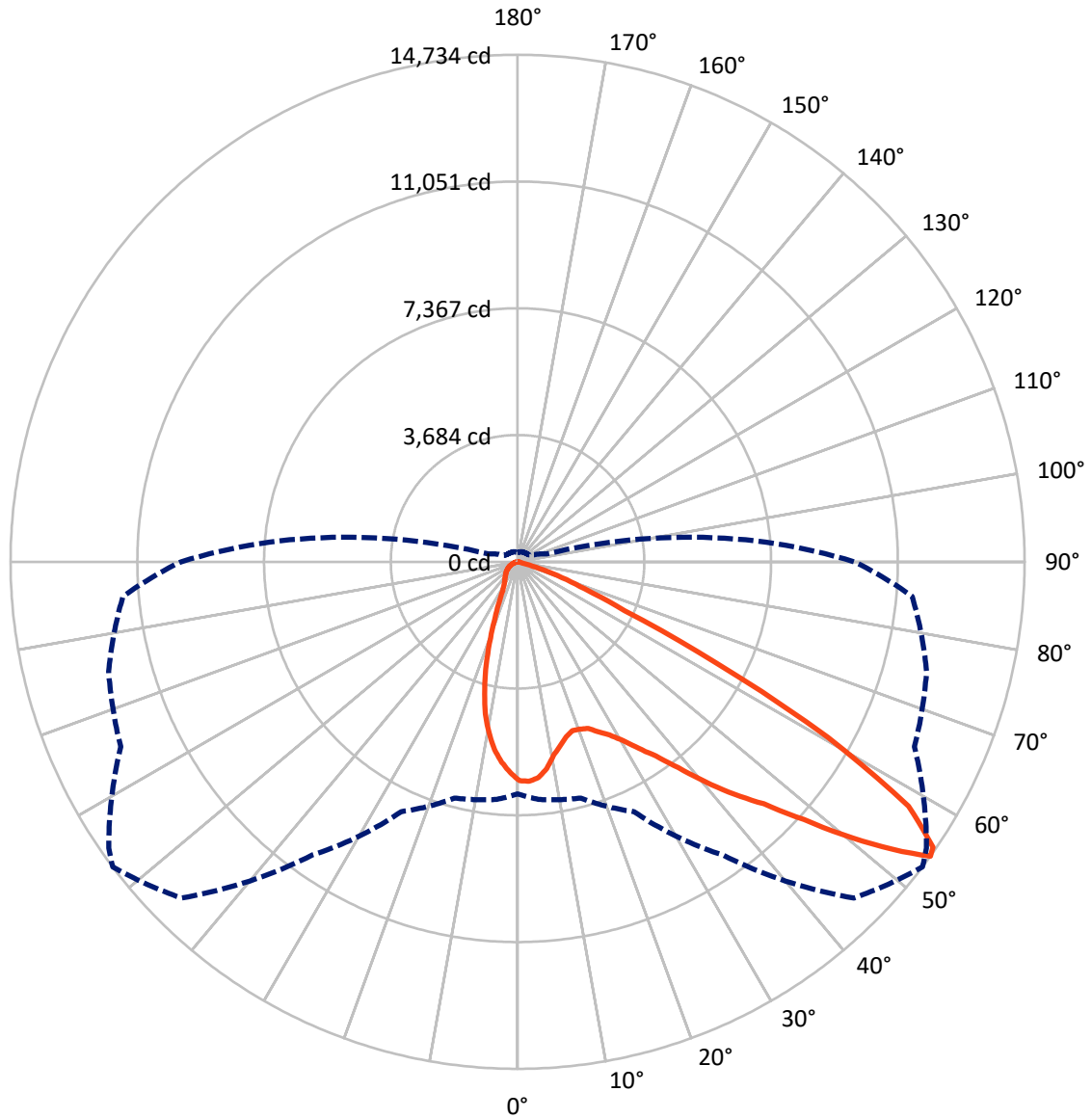
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



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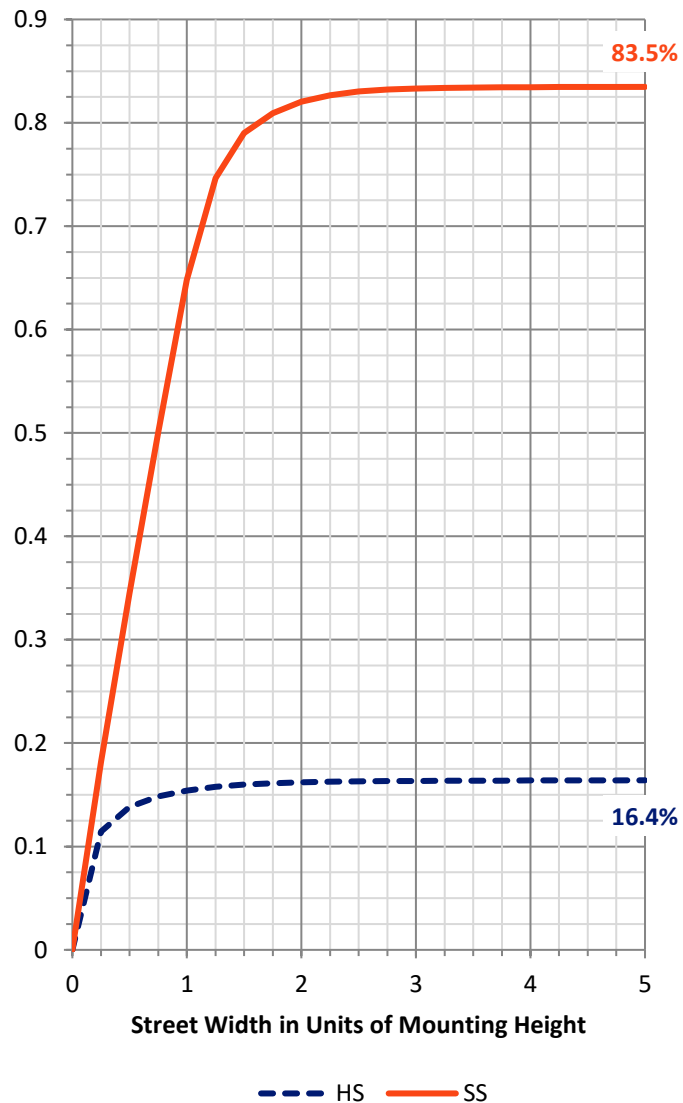
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2929.4 | 0.0 | 2929.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 14775.8 | 0.0 | 14775.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 17705.2 | 0.0 | 17705.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 545.6 | 3.1 |
| 10°-20° | 1250.9 | 7.1 |
| 20°-30° | 1777.9 | 10.0 |
| 30°-40° | 2743.7 | 15.5 |
| 40°-50° | 4301.9 | 24.3 |
| 50°-60° | 4997.2 | 28.2 |
| 60°-70° | 1888.2 | 10.7 |
| 70°-80° | 179.6 | 1.0 |
| 80°-90° | 20.2 | 0.1 |
| 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° | 17705.2 | 100.0 |
| 0°-180° | 17705.2 | 100.0 |

Coefficient of Utilization



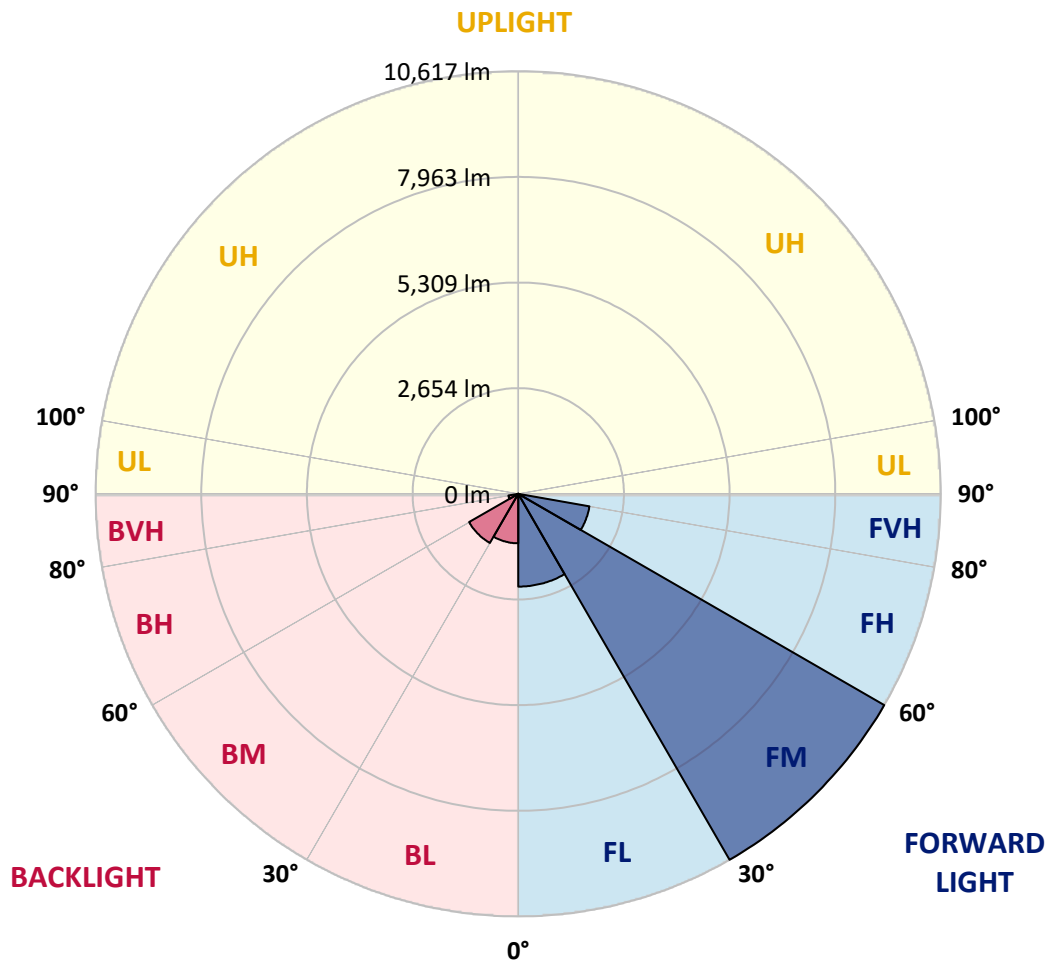
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2331.3 | 13.2 | | | |
| FM (30°-60°) | 10617.2 | 60.0 | | | |
| FH (60°-80°) | 1816.8 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 10.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1243.1 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1425.5 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 251.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 |
| 2.5° | 6326.4 | 6270.3 | 6326.4 | 6333.0 | 6372.6 | 6408.9 | 6385.8 | 6438.6 | 6408.9 | 6375.9 | 6366.0 |
| 5° | 5815.2 | 5891.1 | 5894.3 | 6013.0 | 5986.7 | 6204.4 | 6300.0 | 6273.6 | 6435.2 | 6425.4 | 6402.3 |
| 7.5° | 5356.7 | 5327.0 | 5366.6 | 5505.1 | 5680.0 | 5930.6 | 6069.1 | 6065.8 | 6296.7 | 6461.6 | 6445.2 |
| 10° | 4931.2 | 4927.9 | 5010.3 | 5119.2 | 5267.6 | 5531.5 | 5722.8 | 5818.5 | 6178.0 | 6428.7 | 6465.0 |
| 12.5° | 4644.2 | 4631.1 | 4720.1 | 4809.1 | 5043.3 | 5247.8 | 5491.9 | 5538.1 | 5950.4 | 6313.3 | 6372.6 |
| 15° | 4456.2 | 4485.9 | 4492.5 | 4664.0 | 4812.5 | 5082.9 | 5274.2 | 5369.9 | 5844.9 | 6220.9 | 6448.5 |
| 17.5° | 4423.2 | 4462.8 | 4466.1 | 4608.0 | 4766.3 | 4993.8 | 5162.1 | 5290.7 | 5755.8 | 6267.1 | 6451.8 |
| 20° | 4489.2 | 4466.1 | 4485.9 | 4574.9 | 4729.9 | 4947.7 | 5191.8 | 5234.7 | 5726.1 | 6290.2 | 6488.0 |
| 22.5° | 4677.2 | 4670.6 | 4621.1 | 4693.7 | 4802.5 | 5030.1 | 5261.1 | 5327.0 | 5811.9 | 6408.9 | 6517.8 |
| 25° | 4885.0 | 4921.3 | 4875.1 | 4865.2 | 4941.0 | 5165.4 | 5472.2 | 5557.9 | 6098.9 | 6623.3 | 6610.1 |
| 27.5° | 5274.2 | 5238.0 | 5238.0 | 5191.8 | 5171.9 | 5280.8 | 5699.7 | 5841.6 | 6418.8 | 6900.3 | 6715.6 |
| 30° | 5646.9 | 5686.5 | 5656.9 | 5673.3 | 5541.4 | 5531.5 | 6023.0 | 6197.8 | 6986.1 | 7322.5 | 6940.0 |
| 32.5° | 6237.4 | 6184.6 | 6234.1 | 6191.2 | 6016.3 | 5838.3 | 6461.6 | 6643.1 | 7672.2 | 7807.4 | 7276.3 |
| 35° | 6728.9 | 6705.8 | 6916.9 | 6910.2 | 6626.6 | 6451.8 | 6926.7 | 7197.2 | 8150.5 | 8388.0 | 7672.2 |
| 37.5° | 7428.1 | 7385.3 | 7626.0 | 7741.4 | 7487.5 | 7226.9 | 7593.1 | 7906.3 | 8595.8 | 8853.1 | 8077.9 |
| 40° | 8147.2 | 8256.0 | 8579.3 | 8770.5 | 8500.1 | 8153.8 | 8407.8 | 8503.4 | 8892.6 | 9156.5 | 8355.0 |
| 42.5° | 9057.5 | 9215.8 | 9545.7 | 9710.6 | 9687.5 | 9311.5 | 9235.6 | 9232.4 | 9107.0 | 9070.7 | 8559.4 |
| 45° | 9931.7 | 9872.2 | 10380.2 | 10739.8 | 11030.0 | 10921.1 | 10033.9 | 9934.9 | 9446.7 | 9199.4 | 8612.2 |
| 47.5° | 10314.2 | 10294.5 | 10640.8 | 11280.7 | 12270.2 | 12405.5 | 11194.9 | 10812.3 | 10020.7 | 9740.3 | 8899.2 |
| 50° | 9819.4 | 9921.7 | 10264.7 | 10973.9 | 12491.2 | 13523.7 | 12619.8 | 12105.3 | 10690.3 | 10400.0 | 9578.7 |
| 52.5° | 8203.3 | 8272.5 | 8599.1 | 9499.5 | 11739.2 | 14183.3 | 13985.4 | 13688.6 | 11920.6 | 11439.0 | 10762.8 |
| 54° | 6745.3 | 6930.0 | 7108.2 | 8012.0 | 10400.0 | 13817.2 | 14734.2 | 14506.6 | 12722.1 | 12303.2 | 11508.3 |
| 55° | 5874.5 | 5983.4 | 6112.0 | 7012.5 | 9473.1 | 13197.1 | 14648.4 | 14668.2 | 13259.8 | 12573.6 | 12009.7 |
| 57.5° | 4291.3 | 4367.2 | 4235.2 | 4634.3 | 6504.5 | 10716.7 | 13398.3 | 13932.6 | 13985.4 | 12979.4 | 12316.4 |
| 60° | 3278.7 | 3311.6 | 3163.2 | 3225.9 | 4043.9 | 7355.5 | 10363.7 | 11006.9 | 12616.6 | 11343.4 | 10433.0 |
| 62.5° | 2543.1 | 2549.7 | 2546.4 | 2655.2 | 2787.2 | 4327.6 | 6481.4 | 7052.1 | 8698.0 | 8054.8 | 7085.1 |
| 65° | 1873.5 | 1843.8 | 1896.6 | 2226.5 | 2378.2 | 2721.2 | 3413.9 | 3829.5 | 4726.7 | 3991.1 | 2853.2 |
| 67.5° | 1213.8 | 1223.8 | 1276.5 | 1655.8 | 2038.5 | 2087.9 | 2101.1 | 2068.1 | 2071.4 | 1141.3 | 715.7 |
| 70° | 729.0 | 745.4 | 729.0 | 936.8 | 1457.9 | 1497.5 | 1368.8 | 1335.9 | 1042.3 | 270.4 | 267.2 |
| 72.5° | 432.1 | 409.0 | 366.1 | 402.4 | 606.9 | 725.7 | 653.1 | 649.8 | 409.0 | 158.3 | 158.3 |
| 75° | 181.4 | 164.9 | 135.2 | 122.1 | 161.6 | 155.0 | 155.0 | 138.5 | 108.8 | 105.5 | 99.0 |
| 77.5° | 36.3 | 36.3 | 26.4 | 29.7 | 39.6 | 46.2 | 56.1 | 56.1 | 66.0 | 66.0 | 62.6 |
| 80° | 0.0 | 3.3 | 9.9 | 19.8 | 29.7 | 42.9 | 49.5 | 49.5 | 56.1 | 56.1 | 46.2 |
| 82.5° | 0.0 | 3.3 | 9.9 | 19.8 | 26.4 | 39.6 | 49.5 | 49.5 | 56.1 | 59.4 | 49.5 |
| 85° | 0.0 | 3.3 | 9.9 | 16.5 | 26.4 | 33.0 | 33.0 | 29.7 | 23.1 | 19.8 | 13.2 |
| 87.5° | 0.0 | 0.0 | 3.3 | 6.6 | 3.3 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 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° | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 | 6359.4 |
| 2.5° | 6389.1 | 6385.8 | 6306.6 | 6178.0 | 6148.3 | 6039.4 | 6026.3 | 5960.3 | 5996.6 | 5874.5 | 5861.3 |
| 5° | 6336.3 | 6296.7 | 6201.0 | 6118.6 | 5877.8 | 5706.3 | 5571.0 | 5406.1 | 5310.5 | 5327.0 | 5264.3 |
| 7.5° | 6412.2 | 6310.0 | 6141.7 | 5854.7 | 5561.2 | 5261.1 | 5099.4 | 4763.0 | 4640.9 | 4459.5 | 4433.1 |
| 10° | 6333.0 | 6257.2 | 5996.6 | 5521.6 | 5115.9 | 4683.8 | 4304.5 | 3931.8 | 3648.1 | 3526.0 | 3499.6 |
| 12.5° | 6326.4 | 6194.5 | 5759.1 | 5231.3 | 4644.2 | 4024.1 | 3473.2 | 3008.2 | 2727.8 | 2569.5 | 2533.2 |
| 15° | 6224.1 | 6065.8 | 5491.9 | 4782.7 | 3971.3 | 3199.5 | 2599.2 | 2150.6 | 1936.2 | 1843.8 | 1870.2 |
| 17.5° | 6234.1 | 5996.6 | 5224.7 | 4307.8 | 3308.3 | 2348.5 | 1774.6 | 1543.7 | 1487.6 | 1510.7 | 1510.7 |
| 20° | 6224.1 | 5841.6 | 4901.5 | 3760.2 | 2533.2 | 1629.4 | 1302.9 | 1220.5 | 1256.7 | 1329.3 | 1312.8 |
| 22.5° | 6171.4 | 5769.0 | 4604.7 | 3183.0 | 1863.6 | 1207.2 | 1045.6 | 1048.9 | 1105.0 | 1194.1 | 1213.8 |
| 25° | 6211.0 | 5607.4 | 4228.6 | 2599.2 | 1359.0 | 963.2 | 907.1 | 930.1 | 989.6 | 1055.5 | 1068.7 |
| 27.5° | 6181.3 | 5491.9 | 3836.1 | 2018.7 | 992.8 | 827.9 | 824.6 | 851.0 | 877.4 | 926.8 | 926.8 |
| 30° | 6214.3 | 5386.3 | 3450.2 | 1500.8 | 818.0 | 758.6 | 745.4 | 765.2 | 791.6 | 801.6 | 798.2 |
| 32.5° | 6336.3 | 5307.2 | 3004.9 | 1121.5 | 722.4 | 692.6 | 692.6 | 692.6 | 689.4 | 702.6 | 705.9 |
| 35° | 6603.5 | 5320.4 | 2612.4 | 867.5 | 659.7 | 636.6 | 626.7 | 613.5 | 606.9 | 613.5 | 616.8 |
| 37.5° | 6893.8 | 5313.8 | 2206.7 | 738.8 | 613.5 | 593.7 | 570.7 | 550.8 | 547.6 | 554.1 | 544.3 |
| 40° | 7022.4 | 5376.5 | 1830.7 | 663.0 | 570.7 | 547.6 | 511.2 | 494.8 | 498.1 | 504.6 | 498.1 |
| 42.5° | 7197.2 | 5396.3 | 1586.5 | 603.6 | 531.0 | 494.8 | 471.7 | 451.9 | 448.6 | 458.4 | 455.2 |
| 45° | 7193.9 | 5284.1 | 1329.3 | 570.7 | 494.8 | 455.2 | 425.5 | 409.0 | 409.0 | 415.6 | 418.9 |
| 47.5° | 7405.0 | 5267.6 | 1141.3 | 541.0 | 468.4 | 428.8 | 392.5 | 379.3 | 376.0 | 376.0 | 369.4 |
| 50° | 7896.5 | 5498.5 | 996.1 | 507.9 | 435.4 | 399.1 | 369.4 | 352.9 | 339.7 | 333.2 | 329.9 |
| 52.5° | 8856.4 | 6217.6 | 884.0 | 468.4 | 399.1 | 369.4 | 343.0 | 329.9 | 313.4 | 296.8 | 293.5 |
| 54° | 9786.5 | 6959.7 | 877.4 | 435.4 | 369.4 | 349.6 | 326.5 | 319.9 | 300.1 | 277.1 | 270.4 |
| 55° | 10205.4 | 7391.8 | 900.4 | 409.0 | 349.6 | 336.5 | 316.6 | 310.1 | 290.3 | 263.9 | 260.6 |
| 57.5° | 10551.7 | 7560.0 | 887.3 | 339.7 | 316.6 | 313.4 | 296.8 | 287.0 | 263.9 | 227.6 | 221.0 |
| 60° | 8493.5 | 5716.2 | 636.6 | 300.1 | 290.3 | 283.7 | 270.4 | 263.9 | 234.2 | 194.6 | 191.3 |
| 62.5° | 5366.6 | 3288.5 | 405.7 | 263.9 | 254.0 | 244.1 | 227.6 | 221.0 | 194.6 | 155.0 | 145.2 |
| 65° | 2285.8 | 1362.3 | 273.7 | 234.2 | 217.7 | 201.2 | 188.0 | 178.1 | 155.0 | 115.4 | 112.1 |
| 67.5° | 593.7 | 484.8 | 227.6 | 204.5 | 181.4 | 158.3 | 148.5 | 131.9 | 105.5 | 79.2 | 75.9 |
| 70° | 267.2 | 244.1 | 191.3 | 171.6 | 145.2 | 122.1 | 108.8 | 92.4 | 69.3 | 52.8 | 49.5 |
| 72.5° | 158.3 | 155.0 | 145.2 | 128.6 | 108.8 | 92.4 | 79.2 | 62.6 | 46.2 | 29.7 | 29.7 |
| 75° | 99.0 | 95.7 | 99.0 | 89.0 | 75.9 | 69.3 | 59.4 | 42.9 | 26.4 | 13.2 | 13.2 |
| 77.5° | 59.4 | 59.4 | 59.4 | 56.1 | 52.8 | 52.8 | 42.9 | 26.4 | 13.2 | 3.3 | 3.3 |
| 80° | 46.2 | 46.2 | 49.5 | 46.2 | 46.2 | 46.2 | 36.3 | 19.8 | 6.6 | 0.0 | 0.0 |
| 82.5° | 46.2 | 49.5 | 56.1 | 52.8 | 46.2 | 39.6 | 33.0 | 19.8 | 6.6 | 0.0 | 0.0 |
| 85° | 13.2 | 9.9 | 16.5 | 23.1 | 33.0 | 29.7 | 23.1 | 16.5 | 6.6 | 0.0 | 0.0 |
| 87.5° | 6.6 | 6.6 | 6.6 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 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)