

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: P459154

Luminaire Tested: **GALN-SA6C-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31819 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

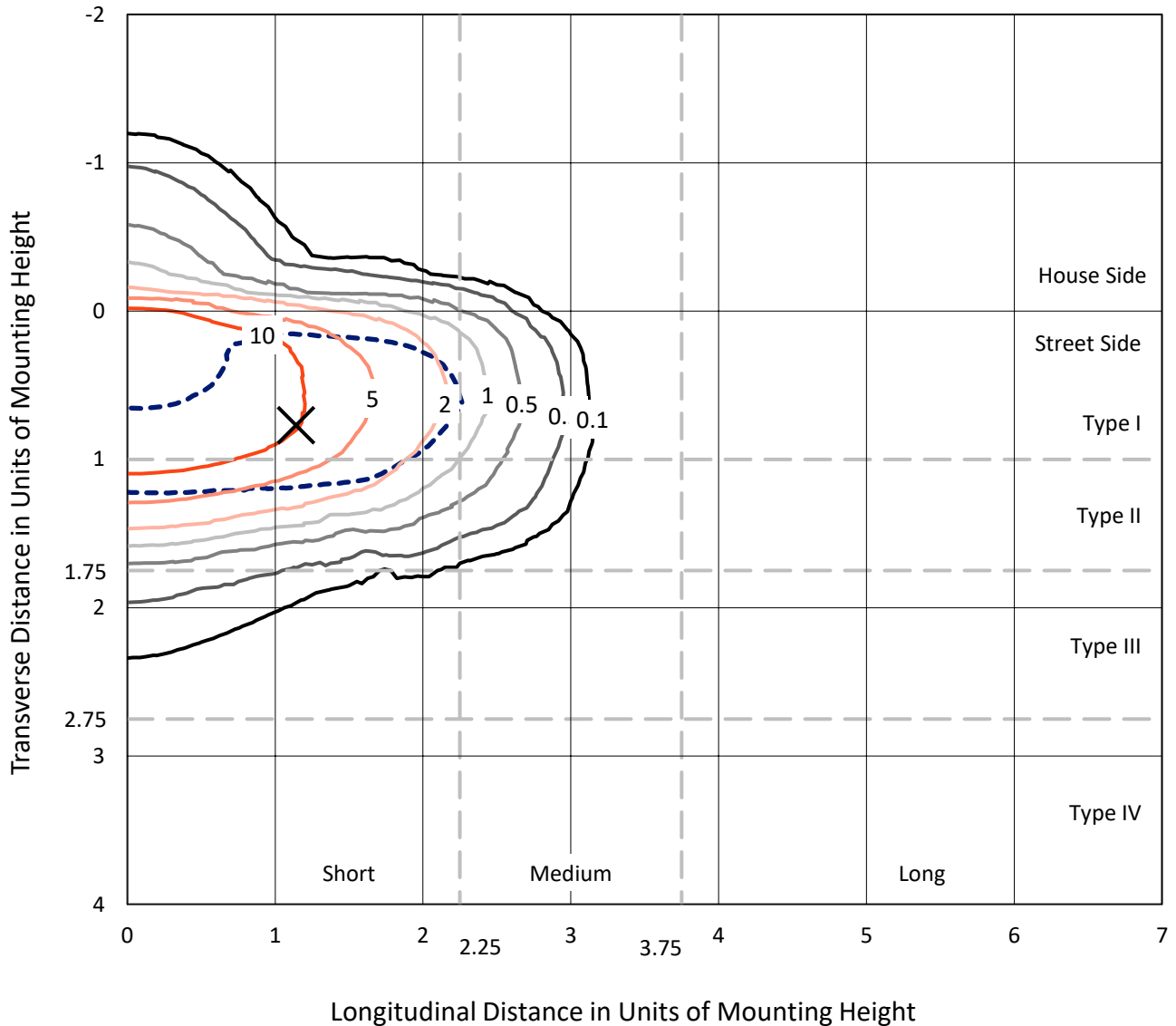
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

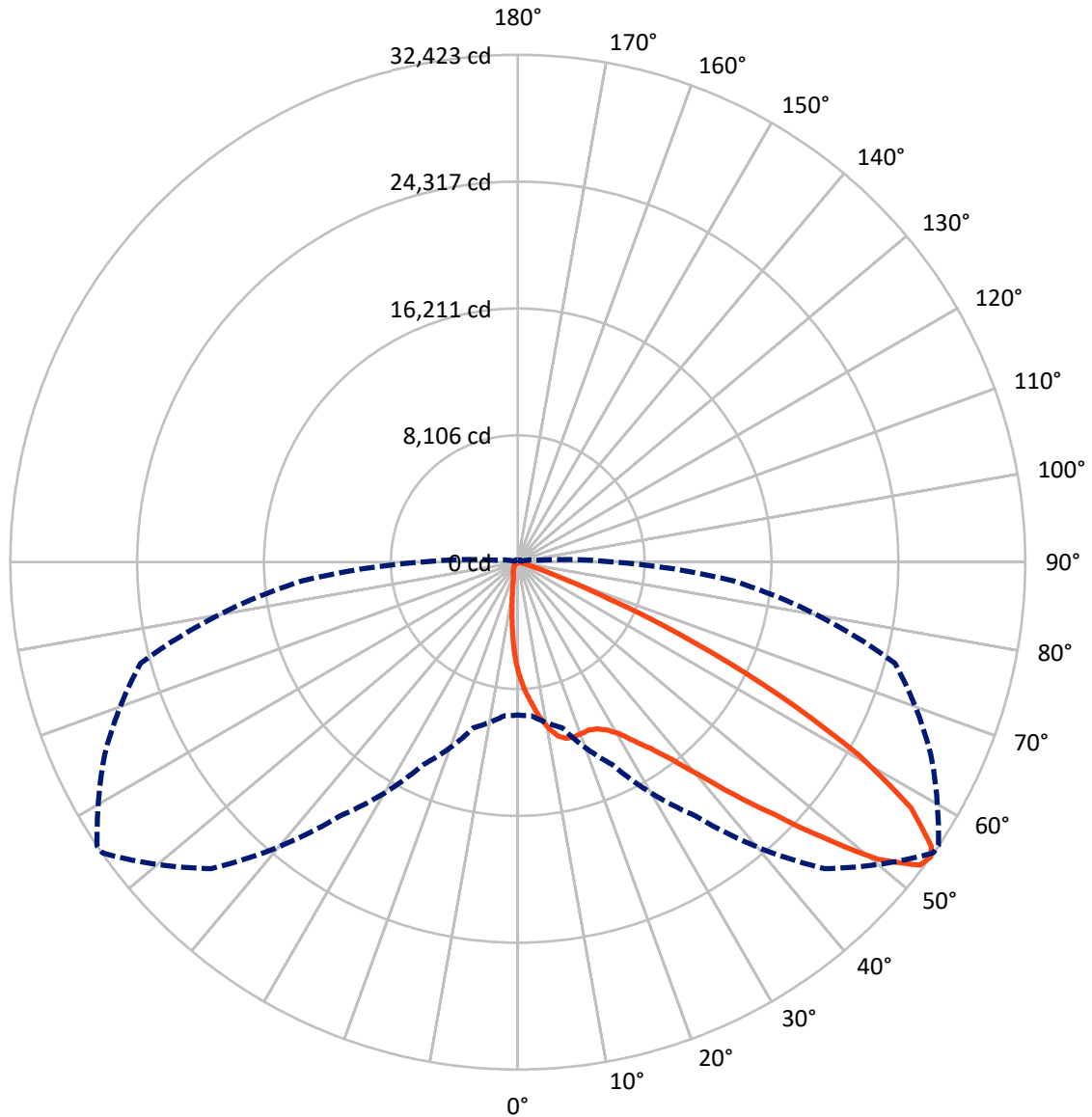
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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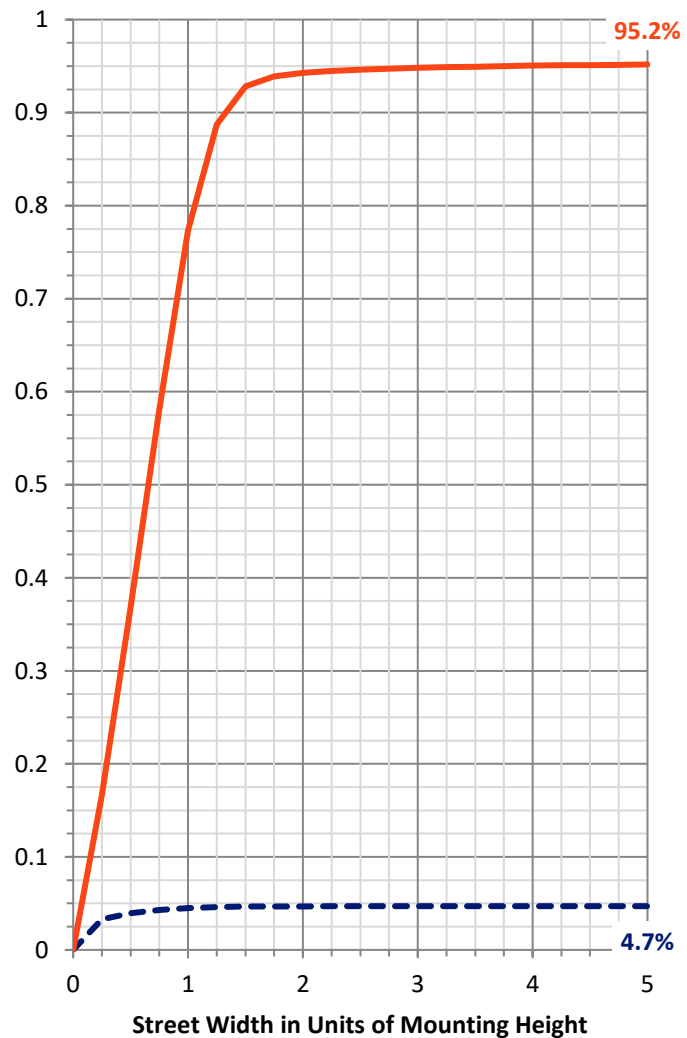
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1504.6 | 0.0 | 1504.6 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 30314.4 | 0.0 | 30314.4 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 31819.0 | 0.0 | 31819.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 624.7 | 2.0 |
| 10°-20° | 1688.7 | 5.3 |
| 20°-30° | 2924.7 | 9.2 |
| 30°-40° | 5048.5 | 15.9 |
| 40°-50° | 8592.8 | 27.0 |
| 50°-60° | 8503.7 | 26.7 |
| 60°-70° | 3881.2 | 12.2 |
| 70°-80° | 498.4 | 1.6 |
| 80°-90° | 56.2 | 0.2 |
| 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° | 31819.0 | 100.0 |
| 0°-180° | 31819.0 | 100.0 |



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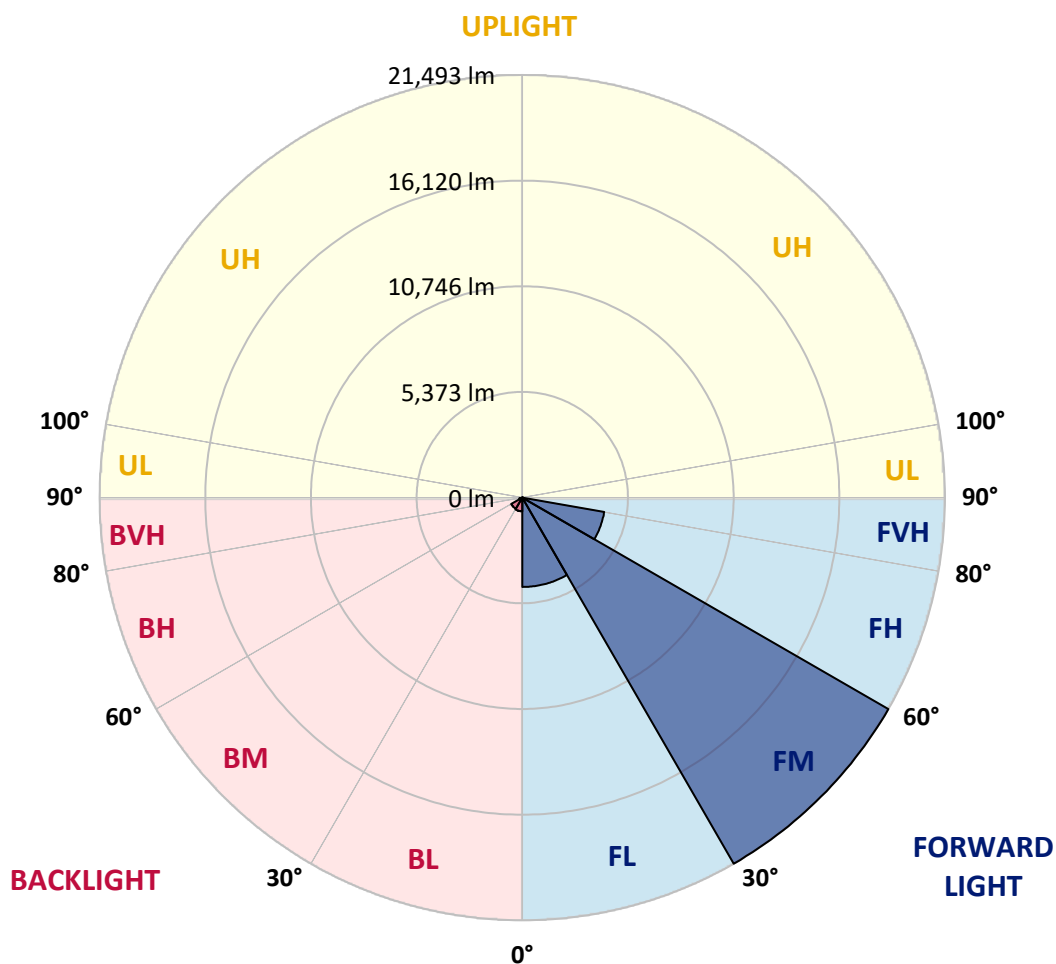
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4542.3 | 14.3 | | | |
| FM | (30°-60°) | 21492.9 | 67.5 | | | |
| FH | (60°-80°) | 4229.0 | 13.3 | | | G2/5000 |
| FVH | (80°-90°) | 50.1 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 695.9 | 2.2 | B2/1000 | | |
| BM | (30°-60°) | 652.1 | 2.0 | B1/1000 | | |
| BH | (60°-80°) | 150.7 | 0.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 |
| 2.5° | 8984.2 | 8921.9 | 8836.0 | 8769.5 | 8612.8 | 8387.4 | 8149.1 | 8149.1 | 7919.4 | 7599.5 | 7273.2 |
| 5° | 10362.4 | 10321.6 | 10237.9 | 10066.1 | 9890.1 | 9574.5 | 9095.8 | 9012.1 | 8602.1 | 8022.4 | 7412.7 |
| 7.5° | 10922.7 | 10942.0 | 10946.3 | 10901.2 | 10817.5 | 10506.2 | 10031.8 | 9973.8 | 9319.1 | 8541.9 | 7595.2 |
| 10° | 10386.0 | 10480.5 | 10572.8 | 10759.5 | 11023.6 | 11098.7 | 10830.4 | 10770.3 | 10126.2 | 9067.9 | 7792.7 |
| 12.5° | 9587.4 | 9638.9 | 9690.5 | 9984.6 | 10514.8 | 11122.3 | 11403.6 | 11401.4 | 10856.1 | 9591.7 | 8043.9 |
| 15° | 9216.0 | 9261.1 | 9265.4 | 9396.4 | 9855.8 | 10740.2 | 11648.3 | 11680.5 | 11568.9 | 10237.9 | 8314.4 |
| 17.5° | 9293.3 | 9329.8 | 9299.7 | 9331.9 | 9572.4 | 10319.5 | 11620.4 | 11727.7 | 12146.3 | 10858.3 | 8559.1 |
| 20° | 9797.8 | 9868.6 | 9752.7 | 9662.5 | 9735.5 | 10207.8 | 11525.9 | 11676.2 | 12554.2 | 11463.7 | 8782.4 |
| 22.5° | 10703.7 | 10742.4 | 10596.4 | 10349.5 | 10220.7 | 10441.8 | 11500.2 | 11648.3 | 12902.0 | 11959.6 | 8911.2 |
| 25° | 11710.6 | 11697.7 | 11536.7 | 11259.7 | 10989.2 | 10914.1 | 11669.8 | 11802.9 | 13189.7 | 12406.1 | 8949.8 |
| 27.5° | 12717.4 | 12756.0 | 12485.5 | 12142.1 | 11817.9 | 11622.5 | 12049.7 | 12148.5 | 13513.8 | 12914.9 | 8997.1 |
| 30° | 13887.4 | 13825.1 | 13558.9 | 13166.1 | 12794.7 | 12522.0 | 12661.6 | 12689.5 | 13960.4 | 13589.0 | 9121.6 |
| 32.5° | 15409.4 | 15237.7 | 14939.3 | 14252.3 | 13986.1 | 13524.6 | 13558.9 | 13593.3 | 14503.5 | 14256.6 | 9271.8 |
| 35° | 17474.6 | 17466.0 | 16882.1 | 15956.8 | 15308.5 | 14735.3 | 14585.1 | 14613.0 | 15325.7 | 15248.4 | 9604.6 |
| 37.5° | 19960.5 | 19994.9 | 19329.4 | 18397.7 | 17204.1 | 16293.9 | 15984.7 | 15989.0 | 16575.1 | 16618.0 | 10111.2 |
| 40° | 21984.9 | 22075.1 | 21677.9 | 21048.9 | 19870.4 | 18447.1 | 17927.6 | 17880.3 | 18331.1 | 18277.5 | 10834.7 |
| 42.5° | 22856.5 | 22940.2 | 23088.4 | 23307.3 | 22659.0 | 21484.7 | 20258.9 | 20323.3 | 20460.7 | 20085.0 | 11646.2 |
| 45° | 22429.3 | 22562.4 | 23144.2 | 24496.6 | 25106.3 | 24711.3 | 23249.4 | 23024.0 | 22442.2 | 22049.3 | 12461.9 |
| 47.5° | 20649.6 | 20973.8 | 21946.3 | 24198.2 | 26332.1 | 27667.4 | 26624.1 | 26325.7 | 24425.8 | 23483.4 | 12981.4 |
| 50° | 17723.6 | 17742.9 | 19097.5 | 21976.3 | 25696.7 | 29532.9 | 30069.6 | 29846.3 | 26274.1 | 24288.4 | 13243.3 |
| 52.5° | 12848.3 | 13271.2 | 14512.1 | 17846.0 | 22944.5 | 29249.5 | 32265.7 | 32173.4 | 28180.5 | 24700.6 | 13621.2 |
| 54° | 9767.7 | 9849.3 | 10952.7 | 14260.9 | 19782.4 | 27693.2 | 32401.0 | 32422.5 | 29127.2 | 24949.6 | 13844.4 |
| 55° | 8007.4 | 7812.0 | 8971.3 | 12148.5 | 17624.9 | 26317.1 | 31958.8 | 32061.8 | 29552.2 | 25078.4 | 14009.7 |
| 57.5° | 3795.5 | 3797.6 | 4684.2 | 6408.1 | 11038.6 | 20435.0 | 29256.0 | 29620.9 | 29599.5 | 25299.5 | 14518.5 |
| 60° | 1921.3 | 1934.2 | 2129.6 | 2958.2 | 5452.8 | 13584.7 | 24189.6 | 25059.1 | 27321.8 | 25331.7 | 14686.0 |
| 62.5° | 1343.9 | 1328.8 | 1296.6 | 1423.3 | 2294.9 | 6904.0 | 18009.1 | 18764.8 | 23212.9 | 24105.9 | 14153.6 |
| 65° | 1150.7 | 1118.5 | 1028.3 | 1009.0 | 1159.2 | 2750.0 | 11216.8 | 12449.0 | 17723.6 | 20872.9 | 12638.0 |
| 67.5° | 983.2 | 970.3 | 888.8 | 839.4 | 820.1 | 1197.9 | 5787.7 | 6436.0 | 12114.1 | 15003.7 | 9572.4 |
| 70° | 835.1 | 828.6 | 779.3 | 717.0 | 663.3 | 717.0 | 2146.8 | 2659.8 | 6751.5 | 8078.2 | 4516.8 |
| 72.5° | 678.4 | 684.8 | 693.4 | 614.0 | 558.2 | 508.8 | 916.7 | 1066.9 | 2825.1 | 2887.4 | 1580.0 |
| 75° | 594.7 | 588.2 | 588.2 | 534.5 | 465.8 | 377.8 | 504.5 | 543.1 | 865.1 | 802.9 | 367.1 |
| 77.5° | 418.6 | 403.6 | 472.3 | 440.1 | 388.6 | 268.3 | 287.7 | 304.8 | 358.5 | 307.0 | 171.7 |
| 80° | 289.8 | 289.8 | 302.7 | 395.0 | 349.9 | 195.4 | 176.0 | 188.9 | 212.5 | 182.5 | 98.8 |
| 82.5° | 163.2 | 167.4 | 197.5 | 210.4 | 203.9 | 131.0 | 115.9 | 118.1 | 141.7 | 124.5 | 62.3 |
| 85° | 19.3 | 32.2 | 113.8 | 111.6 | 83.7 | 58.0 | 64.4 | 66.5 | 88.0 | 77.3 | 36.5 |
| 87.5° | 2.1 | 4.3 | 23.6 | 30.1 | 21.5 | 23.6 | 23.6 | 23.6 | 30.1 | 34.3 | 25.8 |
| 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° | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 |
| 2.5° | 7097.2 | 6934.0 | 6545.5 | 6094.6 | 5807.0 | 5339.0 | 4944.0 | 4658.5 | 4587.6 | 4450.2 | 4491.0 |
| 5° | 7088.6 | 6749.4 | 5957.2 | 5120.0 | 4227.0 | 3561.5 | 3065.6 | 2674.9 | 2503.1 | 2389.3 | 2309.9 |
| 7.5° | 7092.9 | 6562.6 | 5291.8 | 3958.6 | 2891.7 | 2239.1 | 1779.7 | 1541.4 | 1382.5 | 1316.0 | 1324.5 |
| 10° | 7105.8 | 6352.3 | 4518.9 | 2932.5 | 1951.4 | 1446.9 | 1165.7 | 1051.9 | 998.2 | 989.7 | 987.5 |
| 12.5° | 7135.8 | 6122.5 | 3780.4 | 2176.8 | 1365.3 | 1051.9 | 944.6 | 905.9 | 888.8 | 888.8 | 882.3 |
| 15° | 7168.0 | 5869.2 | 3166.5 | 1618.7 | 1051.9 | 903.8 | 854.4 | 835.1 | 824.4 | 824.4 | 822.2 |
| 17.5° | 7168.0 | 5577.3 | 2593.3 | 1255.9 | 905.9 | 830.8 | 792.2 | 766.4 | 757.8 | 757.8 | 755.7 |
| 20° | 7122.9 | 5238.1 | 2084.5 | 1011.1 | 822.2 | 762.1 | 723.5 | 695.5 | 684.8 | 680.5 | 678.4 |
| 22.5° | 6966.2 | 4785.1 | 1659.4 | 869.4 | 753.5 | 702.0 | 652.6 | 620.4 | 611.8 | 607.5 | 609.7 |
| 25° | 6687.1 | 4274.2 | 1313.8 | 764.2 | 691.3 | 629.0 | 586.1 | 562.5 | 553.9 | 553.9 | 556.0 |
| 27.5° | 6399.5 | 3739.6 | 1041.2 | 684.8 | 616.1 | 560.3 | 526.0 | 510.9 | 508.8 | 515.2 | 517.4 |
| 30° | 6133.3 | 3203.0 | 843.7 | 620.4 | 549.6 | 502.3 | 478.7 | 474.4 | 474.4 | 476.6 | 478.7 |
| 32.5° | 5837.0 | 2732.8 | 706.3 | 564.6 | 495.9 | 455.1 | 442.2 | 442.2 | 446.5 | 446.5 | 450.8 |
| 35° | 5650.3 | 2329.2 | 620.4 | 510.9 | 455.1 | 420.8 | 412.2 | 414.3 | 420.8 | 429.4 | 433.6 |
| 37.5° | 5549.4 | 2007.2 | 564.6 | 468.0 | 416.5 | 392.9 | 384.3 | 388.6 | 403.6 | 418.6 | 420.8 |
| 40° | 5558.0 | 1764.6 | 519.5 | 431.5 | 386.4 | 360.7 | 354.2 | 367.1 | 382.1 | 397.1 | 399.3 |
| 42.5° | 5652.4 | 1584.3 | 476.6 | 388.6 | 360.7 | 324.2 | 322.0 | 334.9 | 341.3 | 356.4 | 358.5 |
| 45° | 5764.0 | 1453.4 | 431.5 | 343.5 | 313.4 | 281.2 | 283.4 | 294.1 | 302.7 | 326.3 | 330.6 |
| 47.5° | 5798.4 | 1363.2 | 380.0 | 292.0 | 257.6 | 246.9 | 249.0 | 255.5 | 272.6 | 294.1 | 296.3 |
| 50° | 5837.0 | 1307.4 | 330.6 | 246.9 | 219.0 | 216.8 | 219.0 | 223.3 | 234.0 | 242.6 | 240.4 |
| 52.5° | 6002.3 | 1305.2 | 289.8 | 214.7 | 186.8 | 191.1 | 193.2 | 191.1 | 182.5 | 169.6 | 165.3 |
| 54° | 6156.9 | 1311.7 | 270.5 | 199.6 | 171.7 | 178.2 | 176.0 | 165.3 | 143.8 | 131.0 | 124.5 |
| 55° | 6281.4 | 1318.1 | 259.8 | 188.9 | 163.2 | 165.3 | 167.4 | 146.0 | 118.1 | 105.2 | 100.9 |
| 57.5° | 6526.1 | 1303.1 | 234.0 | 165.3 | 143.8 | 135.2 | 133.1 | 96.6 | 64.4 | 55.8 | 51.5 |
| 60° | 6403.8 | 1176.4 | 212.5 | 141.7 | 122.4 | 109.5 | 90.2 | 53.7 | 32.2 | 23.6 | 23.6 |
| 62.5° | 5922.9 | 998.2 | 188.9 | 115.9 | 100.9 | 83.7 | 47.2 | 30.1 | 15.0 | 8.6 | 6.4 |
| 65° | 5298.2 | 839.4 | 169.6 | 92.3 | 79.4 | 53.7 | 25.8 | 19.3 | 6.4 | 0.0 | 0.0 |
| 67.5° | 3939.3 | 622.6 | 143.8 | 73.0 | 60.1 | 34.3 | 17.2 | 10.7 | 2.1 | 0.0 | 0.0 |
| 70° | 1824.7 | 380.0 | 122.4 | 55.8 | 42.9 | 25.8 | 12.9 | 6.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 523.8 | 238.3 | 100.9 | 40.8 | 30.1 | 21.5 | 10.7 | 4.3 | 2.1 | 0.0 | 0.0 |
| 75° | 182.5 | 191.1 | 75.1 | 30.1 | 23.6 | 15.0 | 8.6 | 4.3 | 2.1 | 0.0 | 0.0 |
| 77.5° | 109.5 | 154.6 | 47.2 | 25.8 | 19.3 | 12.9 | 8.6 | 4.3 | 2.1 | 2.1 | 0.0 |
| 80° | 62.3 | 103.0 | 30.1 | 21.5 | 17.2 | 10.7 | 6.4 | 4.3 | 2.1 | 2.1 | 0.0 |
| 82.5° | 34.3 | 49.4 | 23.6 | 19.3 | 15.0 | 10.7 | 6.4 | 4.3 | 2.1 | 2.1 | 2.1 |
| 85° | 27.9 | 25.8 | 19.3 | 17.2 | 12.9 | 8.6 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.5 | 17.2 | 17.2 | 17.2 | 12.9 | 8.6 | 6.4 | 2.1 | 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)