

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: P459520

Luminaire Tested: **GALN-SA9C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43590 lumens
Efficiency: N/A
Efficacy: 90.6 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

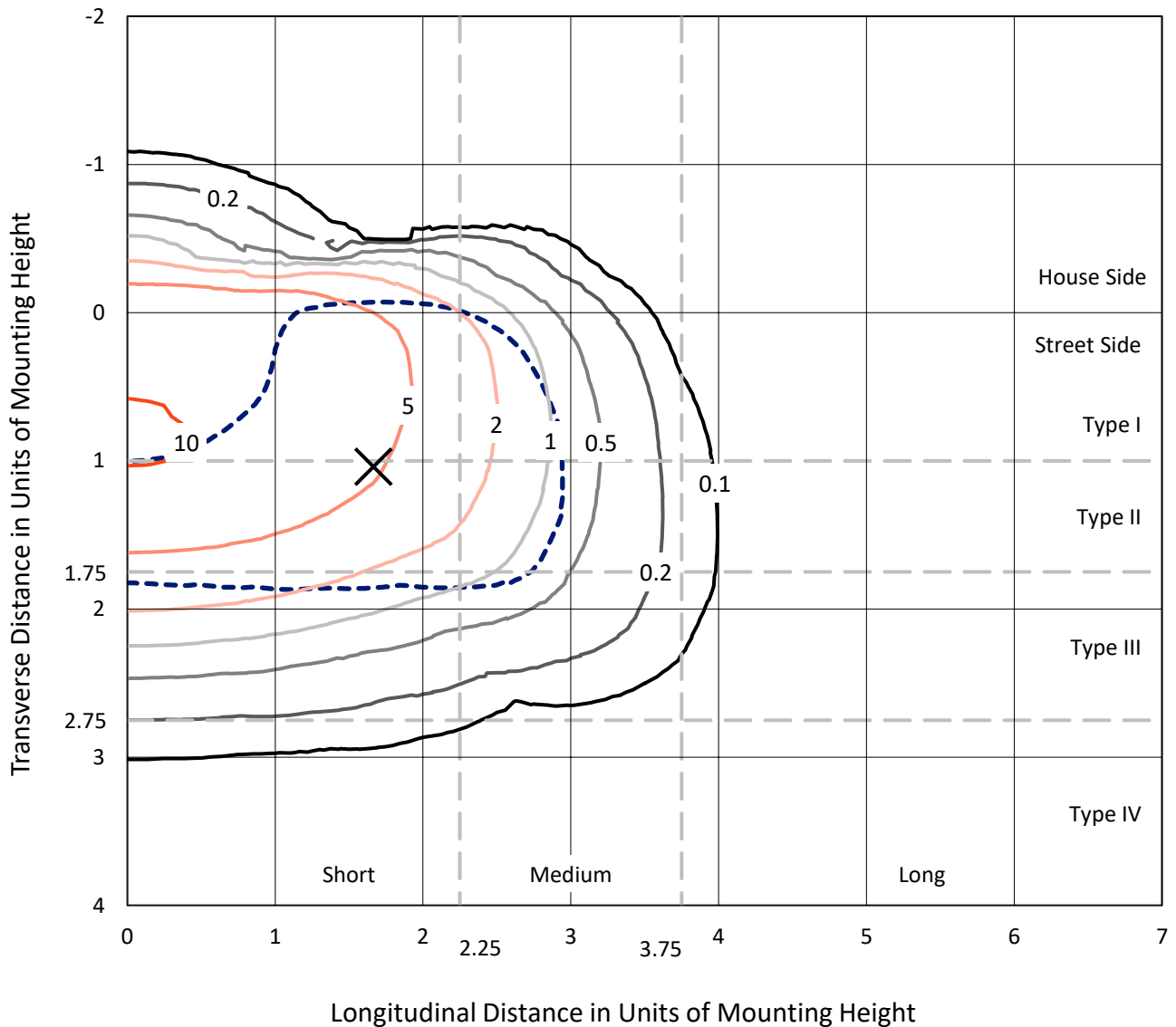
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

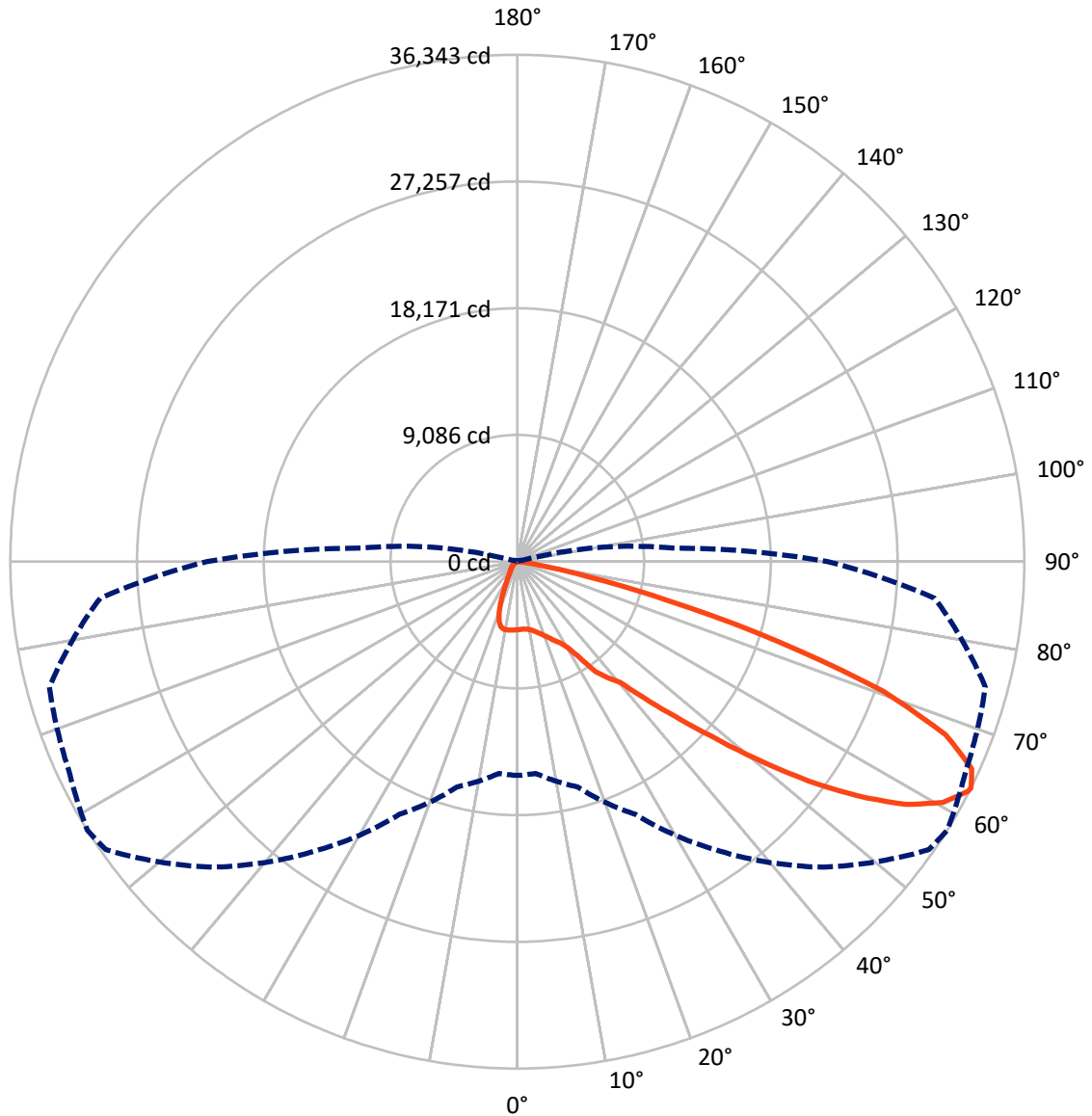
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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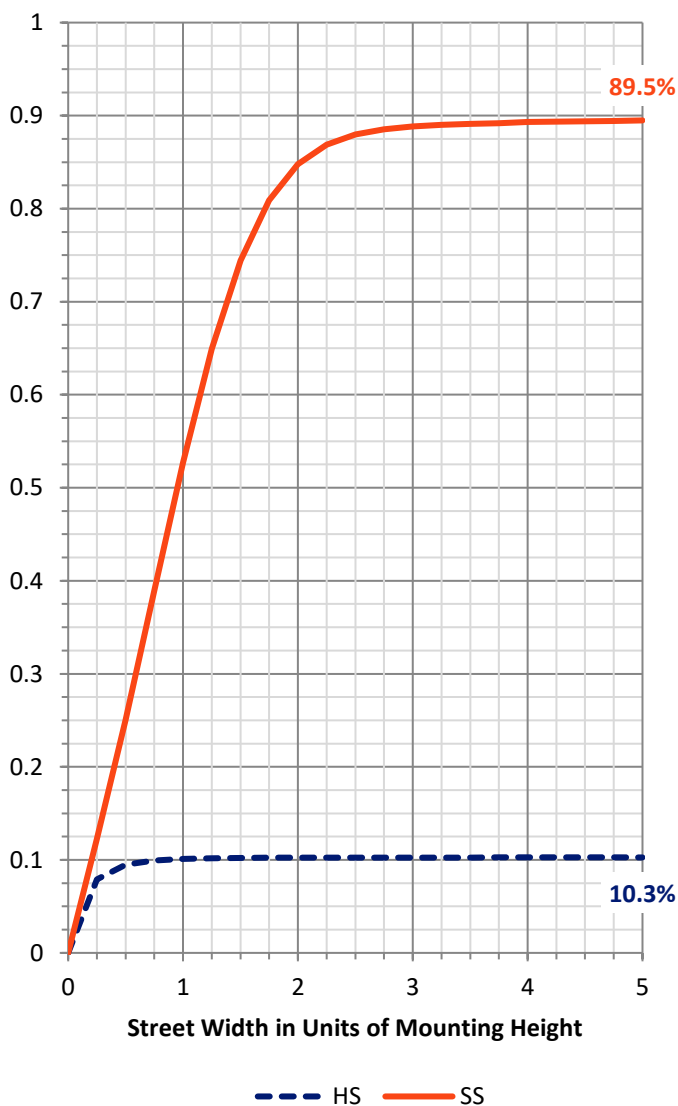
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4513.5 | 0.0 | 4513.5 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 39076.5 | 0.0 | 39076.5 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 43590.0 | 0.0 | 43590.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 456.8 | 1.0 |
| 10°-20° | 1244.3 | 2.9 |
| 20°-30° | 2159.5 | 5.0 |
| 30°-40° | 3968.3 | 9.1 |
| 40°-50° | 7470.3 | 17.1 |
| 50°-60° | 12777.3 | 29.3 |
| 60°-70° | 12234.3 | 28.1 |
| 70°-80° | 3119.8 | 7.2 |
| 80°-90° | 159.5 | 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° | 43590.0 | 100.0 |
| 0°-180° | 43590.0 | 100.0 |

Coefficient of Utilization



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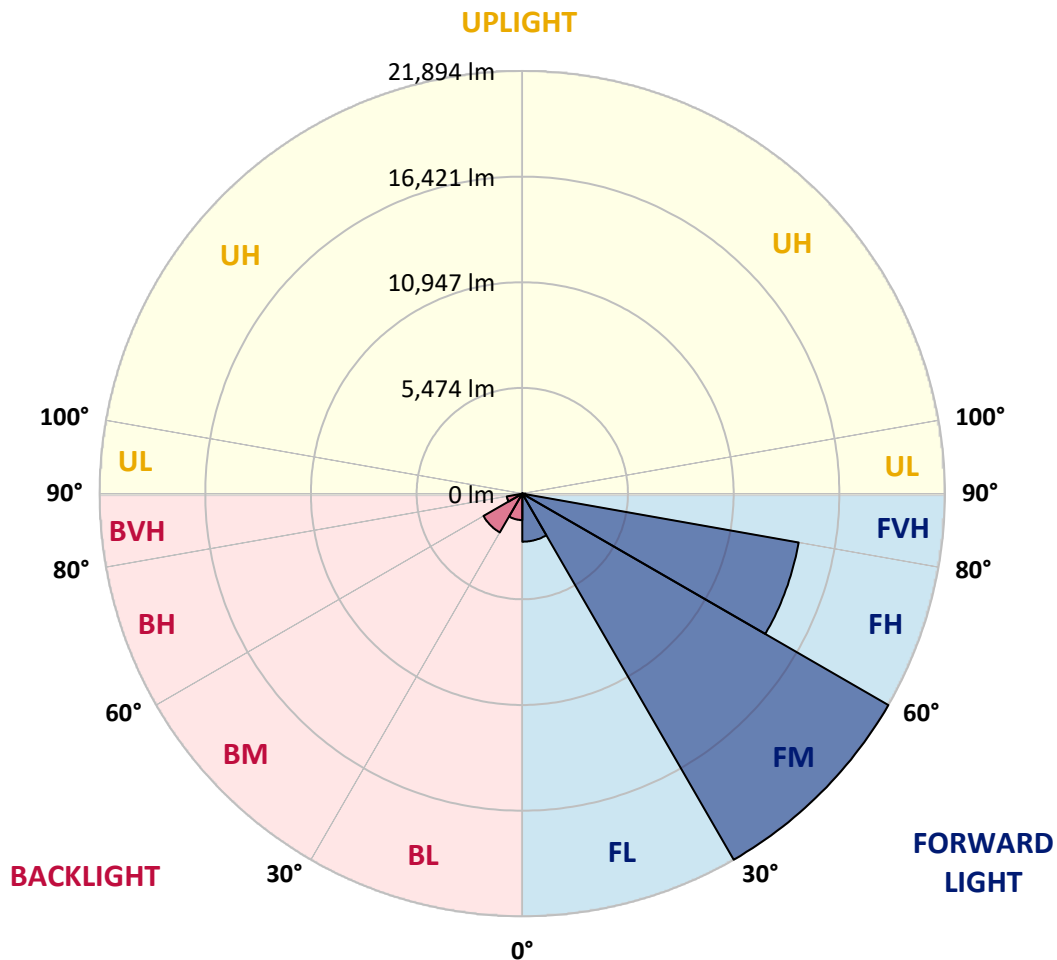
CATALOG NUMBER: GALN-SA9C-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2491.8 | 5.7 | | | |
| FM (30°-60°) | 21894.4 | 50.2 | | | |
| FH (60°-80°) | 14537.0 | 33.3 | | | G5 |
| FVH (80°-90°) | 153.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1368.8 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 2321.5 | 5.3 | B2/2500 | | |
| BH (60°-80°) | 817.0 | 1.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.2 | 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° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 |
| 2.5° | 4758.6 | 4775.1 | 4791.5 | 4798.0 | 4821.0 | 4844.0 | 4860.4 | 4857.1 | 4883.4 | 4896.5 | 4896.5 |
| 5° | 4568.3 | 4568.3 | 4611.0 | 4650.3 | 4716.0 | 4781.6 | 4844.0 | 4857.1 | 4906.3 | 4952.3 | 4968.7 |
| 7.5° | 4407.5 | 4417.3 | 4450.2 | 4522.4 | 4611.0 | 4725.8 | 4850.5 | 4880.1 | 4965.4 | 5067.1 | 5109.8 |
| 10° | 4332.0 | 4338.6 | 4381.2 | 4456.7 | 4568.3 | 4725.8 | 4899.8 | 4955.6 | 5086.8 | 5247.6 | 5306.7 |
| 12.5° | 4315.6 | 4325.4 | 4368.1 | 4453.4 | 4581.4 | 4771.8 | 5008.1 | 5067.1 | 5257.5 | 5464.2 | 5552.8 |
| 15° | 4345.1 | 4351.7 | 4394.4 | 4486.3 | 4627.4 | 4853.8 | 5152.5 | 5234.5 | 5461.0 | 5700.5 | 5815.4 |
| 17.5° | 4450.2 | 4443.6 | 4473.1 | 4548.6 | 4706.1 | 4955.6 | 5326.4 | 5424.9 | 5690.7 | 6018.9 | 6094.3 |
| 20° | 4896.5 | 4853.8 | 4827.6 | 4761.9 | 4824.3 | 5100.0 | 5536.4 | 5680.8 | 6009.0 | 6343.8 | 6396.3 |
| 22.5° | 5858.1 | 5762.9 | 5575.8 | 5319.8 | 5122.9 | 5296.9 | 5789.1 | 5956.5 | 6379.9 | 6708.0 | 6708.0 |
| 25° | 7082.2 | 6960.7 | 6773.7 | 6215.8 | 5733.3 | 5621.8 | 6074.7 | 6284.7 | 6783.5 | 7115.0 | 7006.7 |
| 27.5° | 8614.8 | 8519.6 | 8155.3 | 7505.5 | 6767.1 | 6189.5 | 6406.1 | 6599.7 | 7141.2 | 7541.6 | 7315.2 |
| 30° | 9861.9 | 9815.9 | 9517.3 | 8936.4 | 8122.5 | 7279.1 | 7023.1 | 7151.1 | 7617.1 | 8079.8 | 7846.8 |
| 32.5° | 10915.3 | 10915.3 | 10610.1 | 10068.6 | 9307.2 | 8559.0 | 8070.0 | 8161.9 | 8608.2 | 9143.2 | 8710.0 |
| 35° | 12073.8 | 12034.4 | 11788.3 | 11273.1 | 10419.8 | 9760.1 | 9559.9 | 9684.7 | 10088.3 | 10485.4 | 9418.8 |
| 37.5° | 13291.4 | 13278.3 | 13022.3 | 12523.4 | 11827.7 | 10997.4 | 10528.1 | 10560.9 | 10767.7 | 11010.5 | 10249.1 |
| 40° | 14614.0 | 14633.6 | 14298.9 | 13990.4 | 13334.0 | 12484.1 | 11584.8 | 11378.1 | 11571.7 | 12257.6 | 11781.7 |
| 42.5° | 16176.1 | 16130.2 | 15985.8 | 15565.7 | 15037.3 | 14528.6 | 13448.9 | 13373.4 | 13544.1 | 14279.2 | 13764.0 |
| 45° | 17990.9 | 18056.6 | 17807.2 | 17574.2 | 17219.7 | 16796.4 | 15893.9 | 15762.6 | 15949.7 | 17091.7 | 16359.9 |
| 47.5° | 19809.1 | 19746.7 | 19907.5 | 19864.9 | 20055.2 | 19740.2 | 18942.7 | 18673.6 | 19123.2 | 20206.2 | 19129.7 |
| 50° | 21194.0 | 21262.9 | 21597.7 | 22086.7 | 22903.8 | 23081.1 | 22316.4 | 22224.5 | 22424.7 | 23120.4 | 21607.5 |
| 52.5° | 22093.2 | 22323.0 | 22848.0 | 24105.0 | 25578.5 | 26723.9 | 26143.0 | 26093.8 | 26011.7 | 26198.8 | 23977.0 |
| 55° | 22680.7 | 22913.7 | 23599.6 | 25450.5 | 27987.4 | 29848.2 | 29877.7 | 29667.7 | 29126.2 | 28991.6 | 26192.2 |
| 57.5° | 22319.7 | 22365.6 | 23343.6 | 25818.1 | 29323.1 | 32076.5 | 33041.4 | 32831.3 | 31830.4 | 31321.7 | 28148.2 |
| 60° | 20061.8 | 20156.9 | 21518.9 | 24426.6 | 28742.2 | 32805.1 | 35138.5 | 35043.3 | 33947.2 | 33372.8 | 29671.0 |
| 62.5° | 16061.2 | 16336.9 | 17738.2 | 20980.7 | 26041.3 | 31577.7 | 35988.5 | 36257.6 | 35404.3 | 34613.4 | 30150.1 |
| 63° | 15326.1 | 15237.5 | 16717.6 | 19976.4 | 25325.8 | 30970.6 | 36001.6 | 36342.9 | 35469.9 | 34731.5 | 30018.8 |
| 65° | 11345.3 | 11611.1 | 12572.7 | 15752.7 | 21075.9 | 28144.9 | 35191.0 | 35794.8 | 35227.1 | 34209.7 | 28565.0 |
| 67.5° | 6370.0 | 6356.9 | 7420.2 | 10308.2 | 14751.8 | 22076.8 | 31820.5 | 33097.2 | 32979.0 | 30698.2 | 23678.3 |
| 70° | 3117.7 | 3167.0 | 3603.4 | 5342.8 | 8555.7 | 15230.9 | 26441.6 | 27820.0 | 27862.7 | 24111.5 | 16373.0 |
| 72.5° | 1411.2 | 1434.2 | 1745.9 | 2602.5 | 4397.6 | 8109.4 | 18220.7 | 19536.7 | 19293.8 | 15365.5 | 9041.4 |
| 75° | 745.0 | 794.2 | 961.6 | 1309.4 | 2120.1 | 3344.2 | 9911.1 | 11184.4 | 10675.8 | 7019.8 | 3327.8 |
| 77.5° | 551.3 | 567.8 | 653.1 | 833.6 | 1135.5 | 1302.9 | 4276.2 | 5086.8 | 4765.2 | 2540.1 | 1102.7 |
| 80° | 403.7 | 416.8 | 485.7 | 590.7 | 715.4 | 662.9 | 1611.4 | 1847.7 | 1657.3 | 863.1 | 338.0 |
| 82.5° | 246.1 | 249.4 | 354.4 | 439.8 | 449.6 | 370.8 | 531.7 | 571.0 | 597.3 | 485.7 | 183.8 |
| 85° | 88.6 | 111.6 | 239.6 | 318.3 | 265.8 | 187.1 | 223.2 | 246.1 | 269.1 | 308.5 | 108.3 |
| 87.5° | 9.8 | 13.1 | 114.9 | 154.2 | 75.5 | 68.9 | 82.0 | 91.9 | 98.5 | 114.9 | 52.5 |
| 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° | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 | 4880.1 |
| 2.5° | 4909.6 | 4922.7 | 4912.9 | 4896.5 | 4893.2 | 4883.4 | 4863.7 | 4863.7 | 4863.7 | 4870.2 | 4863.7 |
| 5° | 4981.8 | 4991.7 | 4968.7 | 4935.9 | 4899.8 | 4853.8 | 4804.6 | 4775.1 | 4771.8 | 4765.2 | 4748.8 |
| 7.5° | 5119.6 | 5132.8 | 5080.3 | 5001.5 | 4903.0 | 4791.5 | 4686.4 | 4588.0 | 4542.0 | 4505.9 | 4505.9 |
| 10° | 5319.8 | 5333.0 | 5227.9 | 5086.8 | 4889.9 | 4663.5 | 4414.1 | 4187.6 | 4010.4 | 3928.3 | 3908.6 |
| 12.5° | 5559.4 | 5566.0 | 5392.0 | 5145.9 | 4821.0 | 4384.5 | 3852.9 | 3357.3 | 3012.7 | 2855.2 | 2838.8 |
| 15° | 5822.0 | 5776.0 | 5546.3 | 5168.9 | 4624.1 | 3810.2 | 2891.3 | 2284.1 | 1926.4 | 1821.4 | 1860.8 |
| 17.5° | 6087.8 | 6002.5 | 5664.4 | 5132.8 | 4181.0 | 2891.3 | 1942.8 | 1558.9 | 1447.3 | 1417.7 | 1417.7 |
| 20° | 6337.2 | 6219.1 | 5749.8 | 4975.2 | 3413.1 | 1992.1 | 1440.7 | 1348.8 | 1329.1 | 1309.4 | 1312.7 |
| 22.5° | 6586.6 | 6406.1 | 5825.2 | 4624.1 | 2543.4 | 1424.3 | 1289.8 | 1260.2 | 1234.0 | 1207.7 | 1204.4 |
| 25° | 6829.5 | 6580.1 | 5854.8 | 3974.3 | 1732.8 | 1224.1 | 1178.2 | 1138.8 | 1086.3 | 1056.7 | 1050.2 |
| 27.5° | 7082.2 | 6790.1 | 5835.1 | 3153.8 | 1263.5 | 1096.1 | 1050.2 | 994.4 | 932.0 | 879.5 | 879.5 |
| 30° | 7567.9 | 7190.5 | 5766.2 | 2267.7 | 1063.3 | 964.9 | 905.8 | 817.2 | 748.3 | 695.7 | 692.5 |
| 32.5° | 8230.8 | 7712.3 | 5529.9 | 1595.0 | 945.2 | 850.0 | 761.4 | 662.9 | 590.7 | 551.3 | 551.3 |
| 35° | 8821.5 | 8237.4 | 5086.8 | 1174.9 | 850.0 | 738.4 | 630.1 | 534.9 | 479.1 | 452.9 | 443.0 |
| 37.5° | 9720.8 | 9005.3 | 4476.4 | 955.0 | 758.1 | 640.0 | 528.4 | 439.8 | 393.8 | 374.1 | 374.1 |
| 40° | 11069.6 | 9943.9 | 3728.1 | 836.9 | 669.5 | 544.8 | 439.8 | 370.8 | 334.7 | 311.8 | 311.8 |
| 42.5° | 12743.3 | 11092.6 | 2970.0 | 751.5 | 587.4 | 469.3 | 367.6 | 315.1 | 282.2 | 265.8 | 262.5 |
| 45° | 14850.2 | 12303.6 | 2287.4 | 672.8 | 521.8 | 400.4 | 311.8 | 265.8 | 233.0 | 223.2 | 226.4 |
| 47.5° | 17049.1 | 13370.1 | 1772.2 | 603.9 | 452.9 | 338.0 | 265.8 | 229.7 | 206.8 | 193.6 | 193.6 |
| 50° | 18926.3 | 14105.3 | 1345.5 | 525.1 | 400.4 | 285.5 | 233.0 | 206.8 | 187.1 | 180.5 | 177.2 |
| 52.5° | 20495.0 | 14318.6 | 1030.5 | 456.2 | 351.2 | 246.1 | 206.8 | 187.1 | 170.7 | 160.8 | 160.8 |
| 55° | 21830.7 | 14131.5 | 807.3 | 384.0 | 295.4 | 213.3 | 183.8 | 167.4 | 147.7 | 137.8 | 134.6 |
| 57.5° | 22611.8 | 13531.0 | 617.0 | 318.3 | 239.6 | 177.2 | 160.8 | 141.1 | 118.1 | 101.7 | 101.7 |
| 60° | 23005.6 | 12658.0 | 472.6 | 262.5 | 183.8 | 141.1 | 131.3 | 105.0 | 82.0 | 68.9 | 65.6 |
| 62.5° | 22533.0 | 11499.5 | 357.7 | 206.8 | 137.8 | 105.0 | 88.6 | 75.5 | 52.5 | 39.4 | 39.4 |
| 63° | 22240.9 | 11164.8 | 344.6 | 196.9 | 128.0 | 98.5 | 82.0 | 68.9 | 45.9 | 36.1 | 32.8 |
| 65° | 20275.1 | 9704.3 | 282.2 | 157.5 | 101.7 | 68.9 | 55.8 | 49.2 | 32.8 | 16.4 | 13.1 |
| 67.5° | 16100.6 | 7423.5 | 223.2 | 118.1 | 72.2 | 49.2 | 32.8 | 29.5 | 9.8 | 0.0 | 0.0 |
| 70° | 10885.8 | 4794.7 | 173.9 | 85.3 | 49.2 | 29.5 | 16.4 | 13.1 | 3.3 | 0.0 | 0.0 |
| 72.5° | 5677.6 | 2458.1 | 134.6 | 62.4 | 29.5 | 19.7 | 9.8 | 3.3 | 0.0 | 0.0 | 0.0 |
| 75° | 2008.5 | 836.9 | 98.5 | 39.4 | 19.7 | 9.8 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 607.1 | 311.8 | 62.4 | 29.5 | 13.1 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 213.3 | 114.9 | 36.1 | 19.7 | 9.8 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 105.0 | 55.8 | 23.0 | 16.4 | 9.8 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 59.1 | 36.1 | 19.7 | 16.4 | 9.8 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 42.7 | 26.3 | 19.7 | 16.4 | 13.1 | 6.6 | 3.3 | 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)