

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: P522812

Luminaire Tested: **GALN-SA6C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34891 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

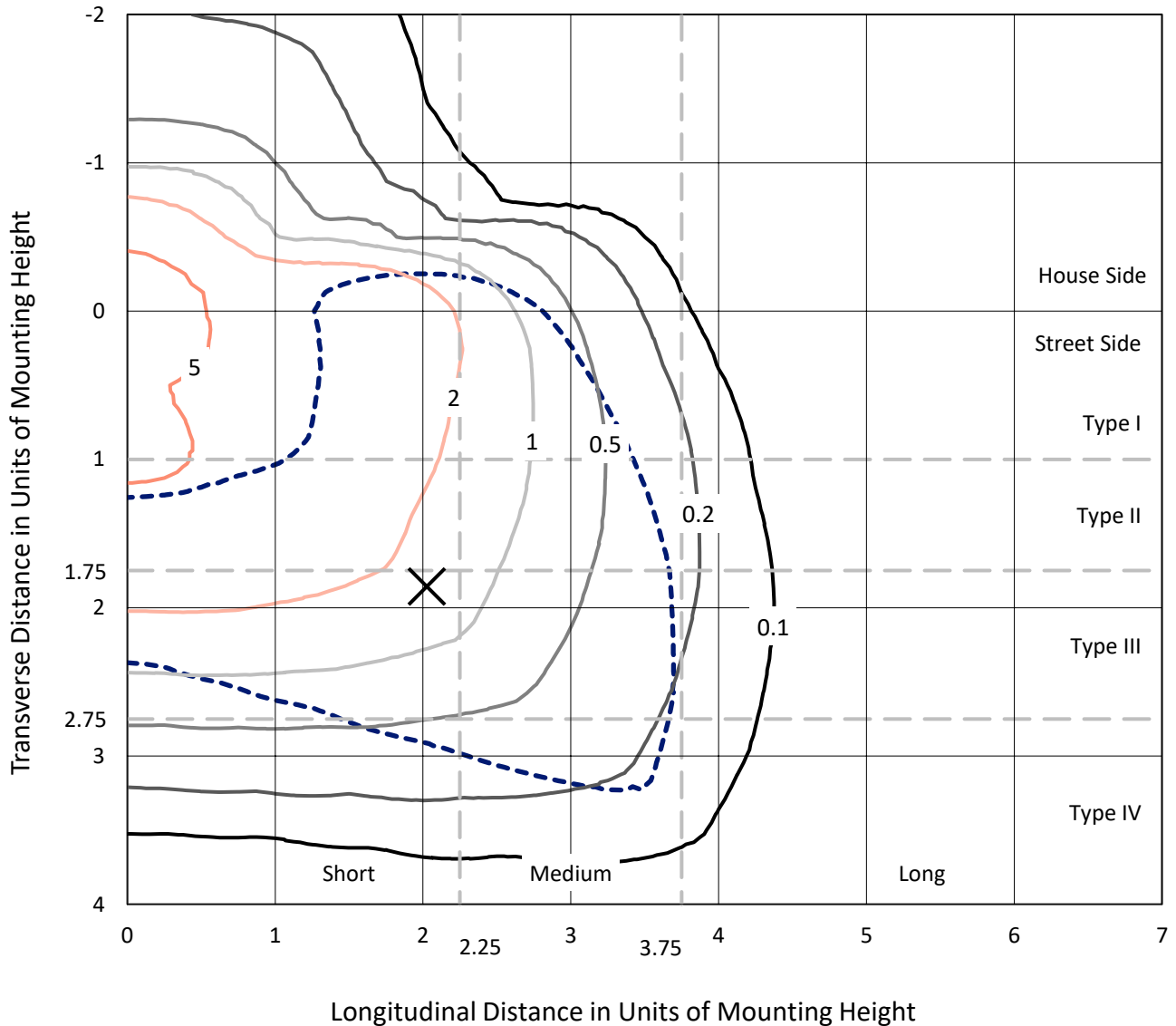
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

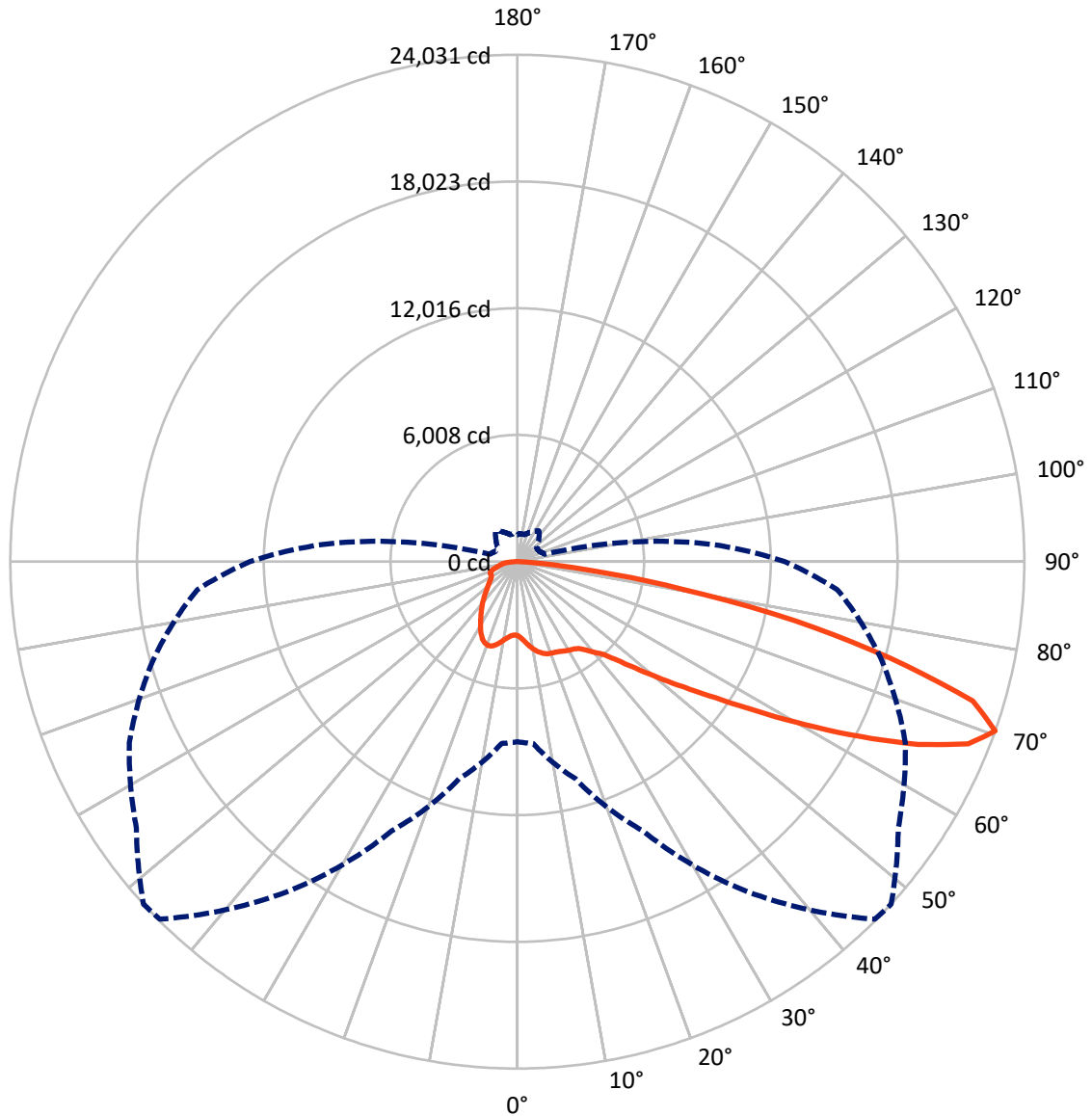
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7900.0 | 0.0 | 7900.0 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 26991.0 | 0.0 | 26991.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 34891.0 | 0.0 | 34891.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 361.0 | 1.0 |
| 10°-20° | 1207.0 | 3.5 |
| 20°-30° | 2007.2 | 5.8 |
| 30°-40° | 2845.0 | 8.2 |
| 40°-50° | 4199.8 | 12.0 |
| 50°-60° | 7274.2 | 20.8 |
| 60°-70° | 10275.1 | 29.4 |
| 70°-80° | 5906.7 | 16.9 |
| 80°-90° | 815.0 | 2.3 |
| 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° | 34891.0 | 100.0 |
| 0°-180° | 34891.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P522812

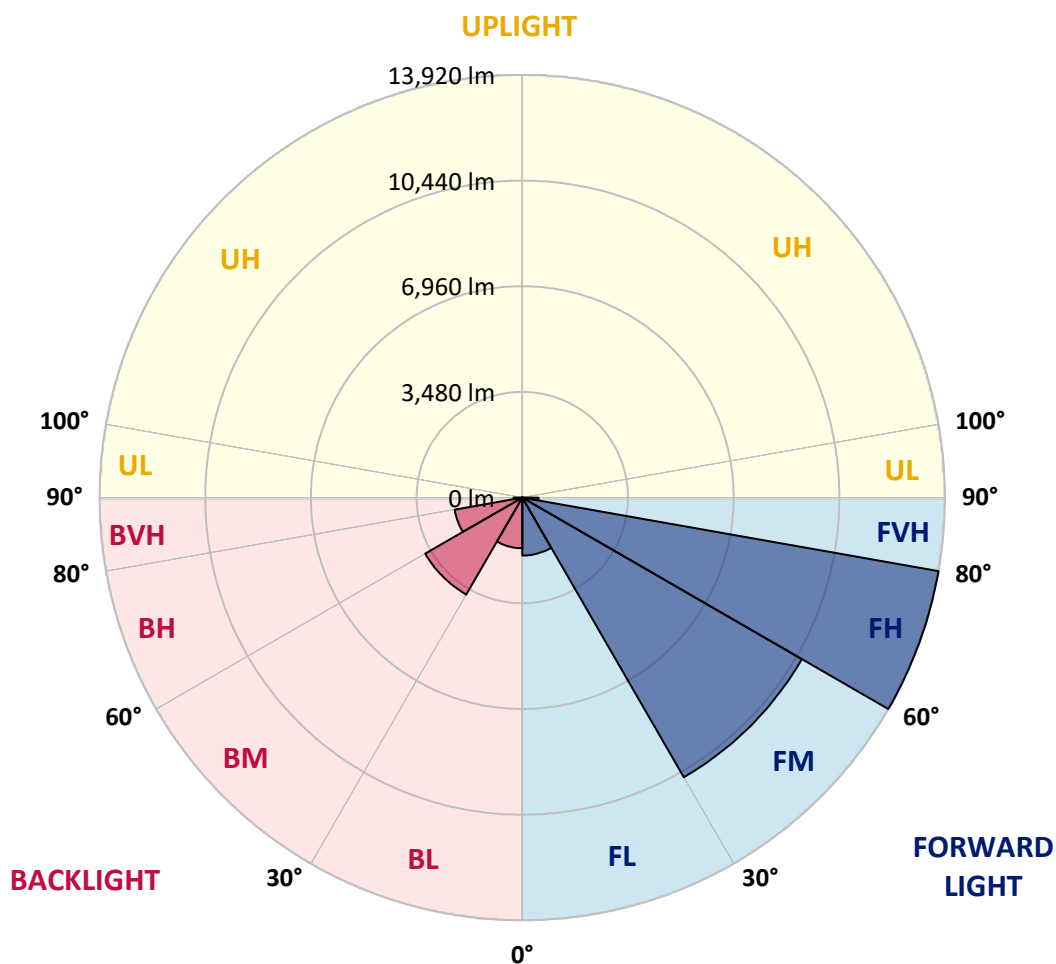
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1908.0 | 5.5 | | | |
| FM | (30°-60°) | 10630.6 | 30.5 | | | |
| FH | (60°-80°) | 13920.0 | 39.9 | | | G5 |
| FVH | (80°-90°) | 532.4 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 1667.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3688.4 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2261.7 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 282.6 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 |
| 2.5° | 3728.6 | 3715.5 | 3713.6 | 3685.6 | 3670.7 | 3642.7 | 3631.5 | 3605.3 | 3573.6 | 3541.8 | 3512.0 |
| 5° | 4021.7 | 4021.7 | 4008.6 | 3969.4 | 3907.8 | 3844.3 | 3816.3 | 3765.9 | 3676.3 | 3603.5 | 3541.8 |
| 7.5° | 4322.3 | 4326.0 | 4299.9 | 4242.0 | 4154.2 | 4051.6 | 4025.4 | 3950.7 | 3823.8 | 3717.4 | 3625.9 |
| 10° | 4581.8 | 4581.8 | 4546.3 | 4467.9 | 4357.8 | 4245.7 | 4219.6 | 4135.6 | 3993.7 | 3861.1 | 3741.6 |
| 12.5° | 4779.7 | 4779.7 | 4733.0 | 4630.4 | 4510.9 | 4410.0 | 4380.2 | 4299.9 | 4167.3 | 4019.8 | 3868.6 |
| 15° | 4908.5 | 4899.2 | 4846.9 | 4731.2 | 4615.4 | 4527.7 | 4507.1 | 4439.9 | 4318.5 | 4169.2 | 3999.3 |
| 17.5° | 4914.1 | 4910.4 | 4860.0 | 4762.9 | 4662.1 | 4602.3 | 4589.3 | 4544.5 | 4449.2 | 4307.3 | 4128.1 |
| 20° | 4805.9 | 4813.3 | 4779.7 | 4710.6 | 4662.1 | 4636.0 | 4630.4 | 4615.4 | 4548.2 | 4415.6 | 4236.4 |
| 22.5° | 4690.1 | 4703.2 | 4671.4 | 4634.1 | 4630.4 | 4656.5 | 4660.2 | 4664.0 | 4621.0 | 4492.2 | 4327.9 |
| 25° | 4662.1 | 4671.4 | 4639.7 | 4606.1 | 4626.6 | 4695.7 | 4710.6 | 4725.6 | 4692.0 | 4583.7 | 4436.2 |
| 27.5° | 4804.0 | 4796.5 | 4734.9 | 4662.1 | 4675.2 | 4768.5 | 4789.1 | 4805.9 | 4789.1 | 4695.7 | 4570.6 |
| 30° | 5205.4 | 5181.1 | 5057.9 | 4845.1 | 4777.9 | 4843.2 | 4863.7 | 4910.4 | 4910.4 | 4841.3 | 4716.2 |
| 32.5° | 5877.6 | 5830.9 | 5605.0 | 5186.7 | 4953.4 | 4914.1 | 4934.7 | 5011.2 | 5050.4 | 4996.3 | 4860.0 |
| 35° | 6693.5 | 6644.9 | 6321.9 | 5759.9 | 5274.5 | 5056.0 | 5050.4 | 5136.3 | 5240.9 | 5119.5 | 4942.2 |
| 37.5° | 7513.1 | 7462.7 | 7074.4 | 6443.3 | 5743.1 | 5354.8 | 5321.2 | 5351.0 | 5395.9 | 5173.7 | 5056.0 |
| 40° | 8332.8 | 8273.0 | 7933.2 | 7206.9 | 6316.3 | 5750.6 | 5662.8 | 5528.4 | 5509.7 | 5351.0 | 5276.4 |
| 42.5° | 9144.9 | 9090.8 | 8919.0 | 8063.9 | 7003.4 | 6137.1 | 6002.7 | 5771.1 | 5842.1 | 5746.9 | 5681.5 |
| 45° | 9964.6 | 9968.3 | 9785.4 | 9025.5 | 7832.4 | 6850.3 | 6669.2 | 6307.0 | 6475.0 | 6439.5 | 6476.9 |
| 47.5° | 10690.9 | 10681.5 | 10616.2 | 9959.0 | 8861.1 | 7768.9 | 7535.5 | 7115.4 | 7403.0 | 7533.7 | 7819.3 |
| 50° | 11394.8 | 11389.2 | 11392.9 | 11017.6 | 10056.1 | 8861.1 | 8603.5 | 8162.9 | 8810.7 | 9264.4 | 9776.0 |
| 52.5° | 12403.0 | 12434.7 | 12208.8 | 12109.9 | 11508.7 | 10151.3 | 9867.5 | 9411.9 | 10474.3 | 11189.4 | 12188.3 |
| 55° | 13414.9 | 13388.8 | 13211.4 | 13314.1 | 13028.5 | 11678.6 | 11381.7 | 11019.5 | 12326.4 | 13108.7 | 14609.9 |
| 57.5° | 14010.5 | 14019.9 | 14201.0 | 14703.2 | 14904.9 | 13583.0 | 13314.1 | 13034.1 | 14408.2 | 14962.8 | 16764.5 |
| 60° | 14546.4 | 14589.3 | 15110.3 | 16058.7 | 16605.8 | 15922.4 | 15683.4 | 15410.9 | 16318.3 | 16538.6 | 18635.3 |
| 62.5° | 14714.4 | 14847.0 | 15756.3 | 17175.2 | 18263.7 | 18562.5 | 18265.6 | 17664.4 | 18136.8 | 18050.9 | 19903.0 |
| 65° | 13876.1 | 14057.2 | 15687.2 | 17593.5 | 19744.3 | 21068.1 | 20879.5 | 19763.0 | 19686.5 | 19169.3 | 20110.3 |
| 67.5° | 11669.2 | 11850.3 | 13943.3 | 16715.9 | 20356.7 | 23237.6 | 23049.1 | 21294.0 | 20627.5 | 19273.8 | 18541.9 |
| 70° | 8538.1 | 8652.0 | 10653.5 | 14074.0 | 19126.3 | 23965.8 | 24031.1 | 22040.8 | 20291.4 | 17853.0 | 15224.1 |
| 72.5° | 4919.7 | 5171.8 | 6574.0 | 9901.1 | 15625.6 | 22124.9 | 22578.6 | 20487.4 | 18166.7 | 14893.7 | 10644.2 |
| 75° | 2115.4 | 2121.0 | 3039.6 | 5461.2 | 10582.6 | 17783.9 | 18222.7 | 16982.9 | 14266.3 | 10298.8 | 5683.4 |
| 77.5° | 1006.4 | 1025.0 | 1336.8 | 2438.4 | 5825.3 | 12287.2 | 13471.0 | 11997.8 | 9124.4 | 4947.8 | 2147.1 |
| 80° | 653.5 | 666.5 | 817.8 | 1209.9 | 2856.6 | 7124.8 | 7950.0 | 6921.3 | 4025.4 | 1768.1 | 926.1 |
| 82.5° | 395.8 | 399.6 | 547.1 | 739.4 | 1572.1 | 3226.3 | 3803.2 | 3004.1 | 1717.7 | 1058.6 | 545.2 |
| 85° | 240.9 | 242.7 | 332.3 | 457.4 | 954.1 | 1114.6 | 1144.5 | 1135.2 | 1008.2 | 692.7 | 291.3 |
| 87.5° | 115.8 | 119.5 | 171.8 | 216.6 | 375.3 | 345.4 | 326.7 | 379.0 | 476.1 | 373.4 | 125.1 |
| 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° | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 | 3502.6 |
| 2.5° | 3498.9 | 3493.3 | 3480.2 | 3474.6 | 3470.9 | 3472.8 | 3470.9 | 3470.9 | 3472.8 | 3472.8 | 3472.8 |
| 5° | 3515.7 | 3506.4 | 3485.8 | 3485.8 | 3497.0 | 3523.2 | 3547.4 | 3566.1 | 3586.7 | 3584.8 | 3584.8 |
| 7.5° | 3588.5 | 3571.7 | 3547.4 | 3554.9 | 3582.9 | 3624.0 | 3666.9 | 3708.0 | 3749.1 | 3752.8 | 3751.0 |
| 10° | 3694.9 | 3678.1 | 3652.0 | 3661.3 | 3706.1 | 3767.8 | 3821.9 | 3881.7 | 3926.5 | 3939.5 | 3935.8 |
| 12.5° | 3816.3 | 3782.7 | 3760.3 | 3786.4 | 3857.4 | 3939.5 | 3991.8 | 4036.6 | 4068.4 | 4087.0 | 4079.6 |
| 15° | 3939.5 | 3907.8 | 3881.7 | 3935.8 | 4021.7 | 4098.2 | 4124.4 | 4131.8 | 4137.4 | 4156.1 | 4152.4 |
| 17.5° | 4059.0 | 4016.1 | 4006.7 | 4077.7 | 4159.8 | 4193.5 | 4178.5 | 4146.8 | 4122.5 | 4137.4 | 4135.6 |
| 20° | 4165.4 | 4131.8 | 4128.1 | 4199.1 | 4230.8 | 4199.1 | 4135.6 | 4079.6 | 4036.6 | 4040.4 | 4038.5 |
| 22.5° | 4266.3 | 4240.1 | 4243.9 | 4273.7 | 4223.3 | 4115.0 | 4010.5 | 3933.9 | 3887.3 | 3896.6 | 3902.2 |
| 25° | 4378.3 | 4352.2 | 4361.5 | 4312.9 | 4146.8 | 3958.2 | 3807.0 | 3741.6 | 3723.0 | 3741.6 | 3754.7 |
| 27.5° | 4523.9 | 4507.1 | 4501.5 | 4314.8 | 4010.5 | 3726.7 | 3554.9 | 3530.6 | 3547.4 | 3588.5 | 3609.1 |
| 30° | 4680.8 | 4680.8 | 4650.9 | 4283.1 | 3823.8 | 3448.5 | 3299.1 | 3302.9 | 3360.7 | 3418.6 | 3439.2 |
| 32.5° | 4832.0 | 4863.7 | 4770.4 | 4197.2 | 3582.9 | 3177.8 | 3063.9 | 3067.6 | 3118.0 | 3189.0 | 3207.6 |
| 35° | 4957.1 | 5048.6 | 4873.1 | 4040.4 | 3299.1 | 2950.0 | 2864.1 | 2813.7 | 2815.6 | 2869.7 | 2884.6 |
| 37.5° | 5128.9 | 5298.8 | 4932.8 | 3807.0 | 2996.7 | 2755.8 | 2658.7 | 2571.0 | 2513.1 | 2490.7 | 2490.7 |
| 40° | 5427.6 | 5677.8 | 4947.8 | 3461.6 | 2711.0 | 2571.0 | 2432.8 | 2328.2 | 2216.2 | 2115.4 | 2096.7 |
| 42.5° | 5933.6 | 6249.1 | 4917.9 | 3063.9 | 2453.3 | 2367.5 | 2233.0 | 2104.2 | 1949.2 | 1807.3 | 1796.1 |
| 45° | 6829.8 | 6992.2 | 4837.6 | 2651.2 | 2223.7 | 2171.4 | 2040.7 | 1900.7 | 1736.4 | 1609.4 | 1600.1 |
| 47.5° | 8265.6 | 8035.9 | 4731.2 | 2285.3 | 2014.6 | 1999.6 | 1898.8 | 1736.4 | 1572.1 | 1484.3 | 1475.0 |
| 50° | 10362.3 | 9678.9 | 4716.2 | 2020.2 | 1846.5 | 1854.0 | 1771.9 | 1622.5 | 1478.7 | 1405.9 | 1394.7 |
| 52.5° | 12886.6 | 11663.6 | 4815.2 | 1833.5 | 1699.0 | 1727.0 | 1686.0 | 1547.8 | 1420.8 | 1359.2 | 1348.0 |
| 55° | 15336.2 | 13448.6 | 4874.9 | 1687.8 | 1560.9 | 1613.2 | 1618.8 | 1503.0 | 1387.2 | 1325.6 | 1318.2 |
| 57.5° | 17324.6 | 14792.9 | 4609.8 | 1555.3 | 1441.4 | 1521.7 | 1562.7 | 1476.9 | 1370.4 | 1323.8 | 1316.3 |
| 60° | 18708.1 | 15427.7 | 3855.5 | 1437.6 | 1353.6 | 1448.9 | 1542.2 | 1478.7 | 1411.5 | 1417.1 | 1420.8 |
| 62.5° | 19148.7 | 15145.7 | 2892.1 | 1349.9 | 1293.9 | 1424.6 | 1575.8 | 1555.3 | 1486.2 | 1529.1 | 1536.6 |
| 65° | 18418.7 | 13980.7 | 2096.7 | 1280.8 | 1241.6 | 1441.4 | 1676.6 | 1611.3 | 1460.1 | 1491.8 | 1491.8 |
| 67.5° | 15974.7 | 12044.5 | 1631.8 | 1217.3 | 1181.9 | 1473.1 | 1777.5 | 1605.7 | 1398.4 | 1435.8 | 1402.2 |
| 70° | 12671.9 | 9316.7 | 1359.2 | 1146.4 | 1118.4 | 1426.4 | 1786.8 | 1547.8 | 1325.6 | 1333.1 | 1269.6 |
| 72.5° | 8409.3 | 6125.9 | 1168.8 | 1079.2 | 1021.3 | 1282.7 | 1710.2 | 1473.1 | 1254.7 | 1211.7 | 1148.3 |
| 75° | 4120.6 | 3054.5 | 1019.4 | 995.2 | 894.3 | 1116.5 | 1605.7 | 1402.2 | 1178.1 | 1110.9 | 1075.4 |
| 77.5° | 1596.4 | 1299.5 | 870.1 | 888.7 | 778.6 | 983.9 | 1467.5 | 1301.4 | 1077.3 | 985.8 | 957.8 |
| 80° | 774.8 | 737.5 | 713.2 | 741.2 | 640.4 | 838.3 | 1340.6 | 1213.6 | 983.9 | 883.1 | 842.1 |
| 82.5° | 481.7 | 455.6 | 547.1 | 576.9 | 492.9 | 765.5 | 1271.5 | 1138.9 | 866.3 | 731.9 | 698.3 |
| 85° | 244.6 | 261.4 | 365.9 | 394.0 | 352.9 | 608.7 | 1047.4 | 855.1 | 625.5 | 519.0 | 522.8 |
| 87.5° | 93.4 | 125.1 | 192.3 | 207.2 | 188.6 | 321.1 | 576.9 | 498.5 | 401.4 | 272.6 | 252.1 |
| 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)