

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: P454413

Luminaire Tested: **GALN-SA5C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32247 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

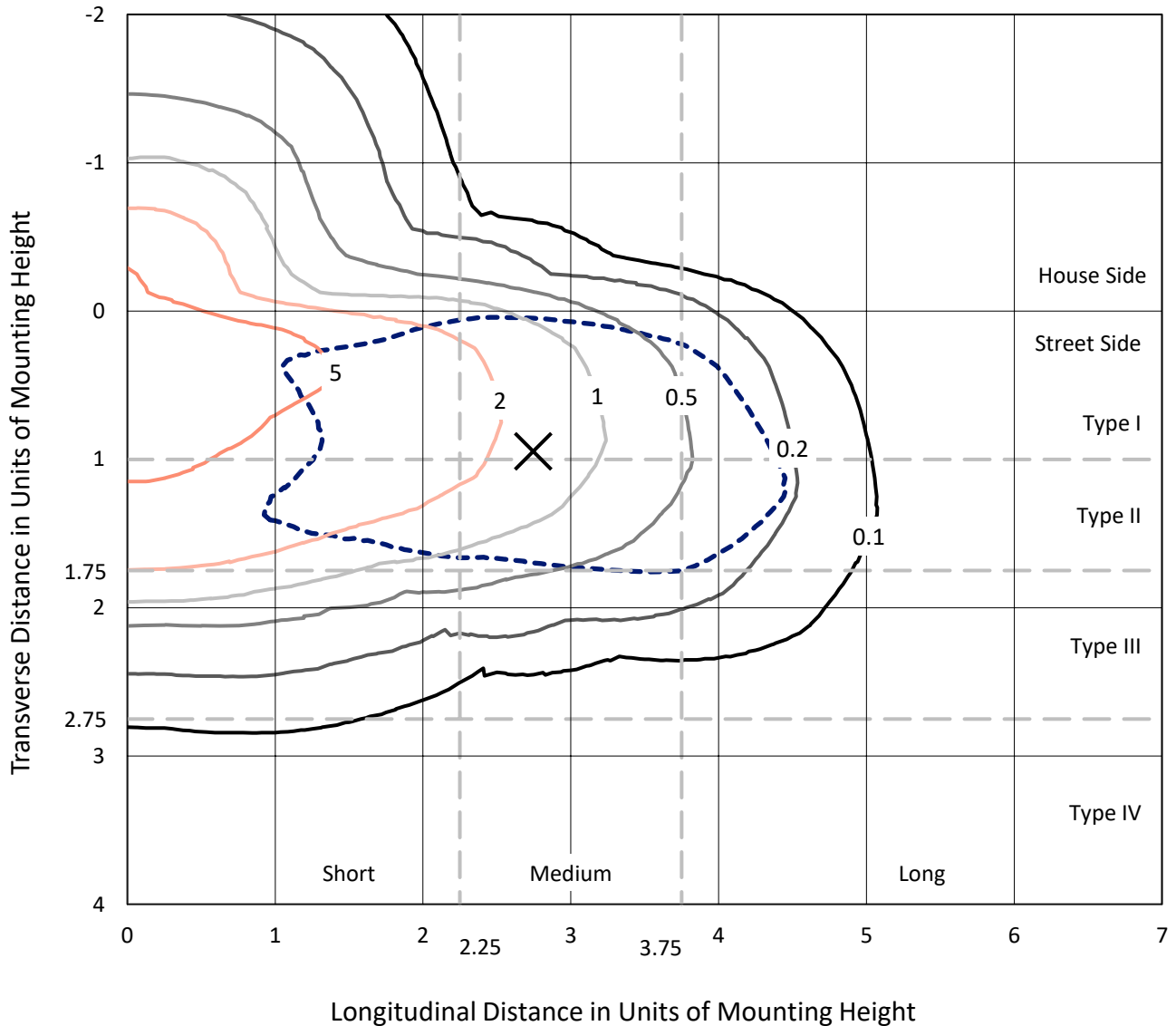
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

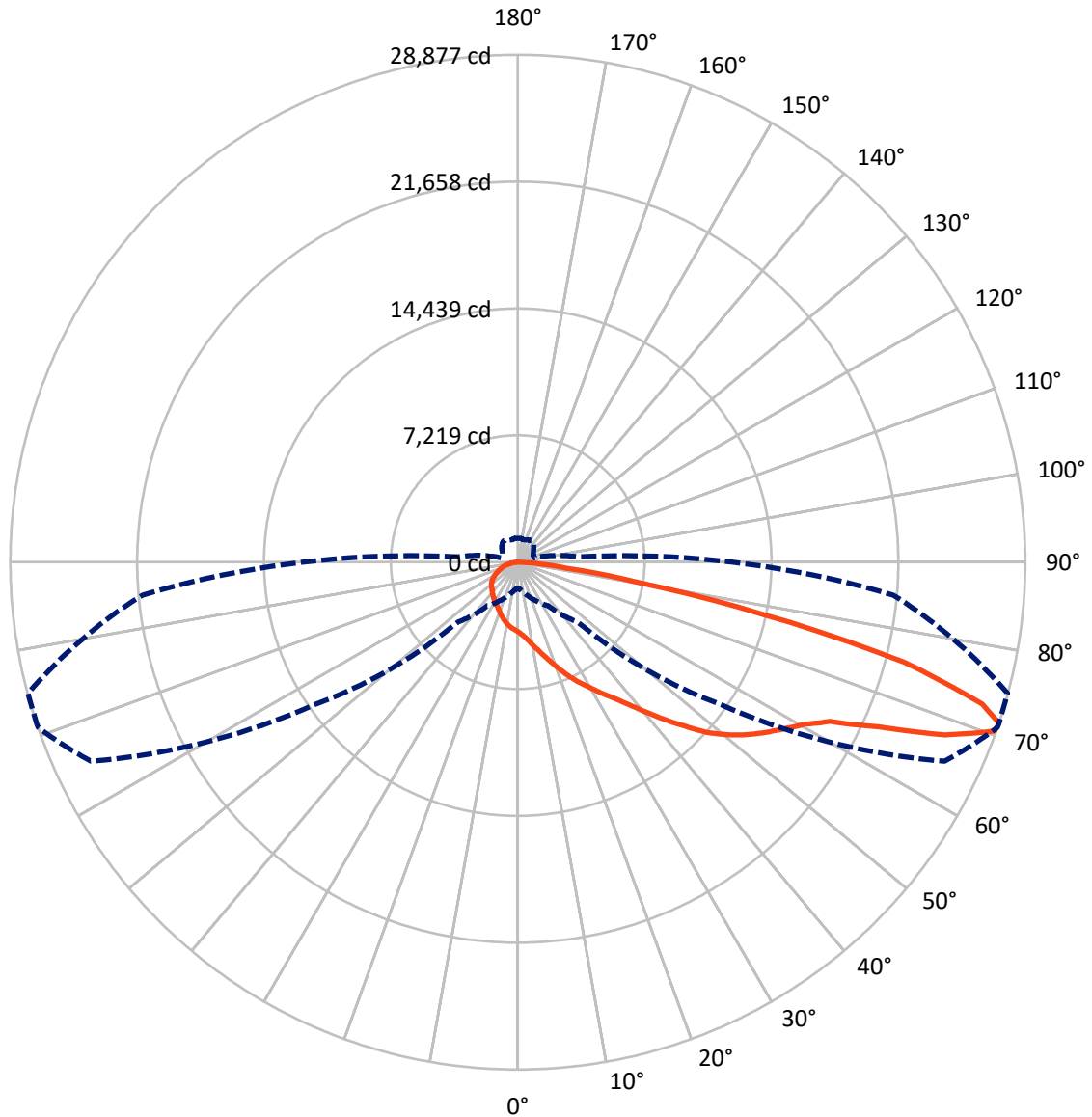
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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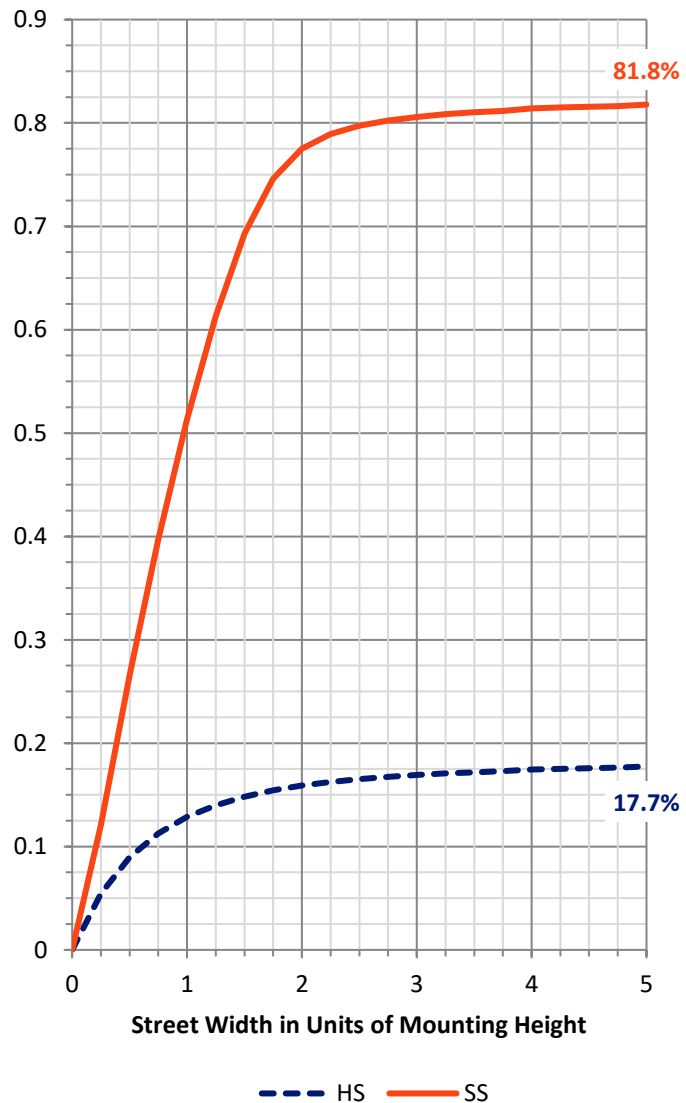
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5799.5 | 0.0 | 5799.5 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 26447.5 | 0.0 | 26447.5 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 32247.0 | 0.0 | 32247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 397.4 | 1.2 |
| 10°-20° | 1291.0 | 4.0 |
| 20°-30° | 2256.2 | 7.0 |
| 30°-40° | 3355.8 | 10.4 |
| 40°-50° | 4944.4 | 15.3 |
| 50°-60° | 6922.2 | 21.5 |
| 60°-70° | 7742.3 | 24.0 |
| 70°-80° | 4729.3 | 14.7 |
| 80°-90° | 608.4 | 1.9 |
| 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° | 32247.0 | 100.0 |
| 0°-180° | 32247.0 | 100.0 |

Coefficient of Utilization



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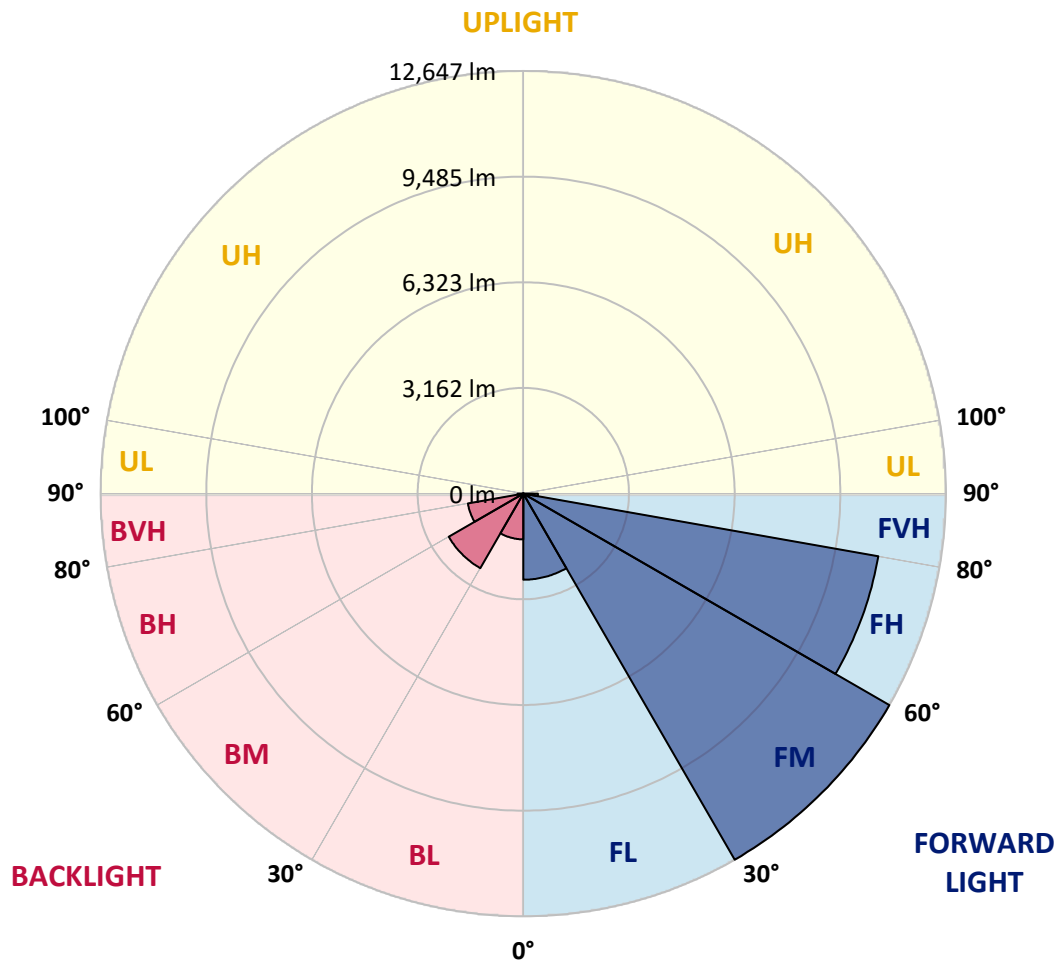
CATALOG NUMBER: GALN-SA5C-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2576.6 | 8.0 | | | |
| FM (30°-60°) | 12646.6 | 39.2 | | | |
| FH (60°-80°) | 10786.5 | 33.4 | | | G4/12000 |
| FVH (80°-90°) | 437.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1368.1 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2575.8 | 8.0 | B3/5000 | | |
| BH (60°-80°) | 1685.0 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 170.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 |
| 2.5° | 4393.7 | 4372.4 | 4374.2 | 4344.1 | 4305.1 | 4262.5 | 4202.3 | 4149.1 | 4106.6 | 4081.7 | 4009.1 |
| 5° | 4868.7 | 4847.4 | 4820.8 | 4755.2 | 4726.9 | 4622.3 | 4489.4 | 4368.9 | 4276.7 | 4225.3 | 4080.0 |
| 7.5° | 5253.3 | 5248.0 | 5240.9 | 5203.7 | 5131.0 | 4985.7 | 4872.2 | 4663.1 | 4526.6 | 4429.1 | 4181.0 |
| 10° | 5490.8 | 5499.6 | 5505.0 | 5512.0 | 5481.9 | 5405.7 | 5249.7 | 4985.7 | 4812.0 | 4687.9 | 4312.2 |
| 12.5° | 5611.3 | 5620.2 | 5650.3 | 5715.9 | 5756.6 | 5747.8 | 5620.2 | 5361.4 | 5122.1 | 4959.1 | 4452.2 |
| 15° | 5685.7 | 5699.9 | 5753.1 | 5839.9 | 5976.4 | 6063.2 | 6001.2 | 5761.9 | 5499.6 | 5306.5 | 4618.8 |
| 17.5° | 5767.3 | 5783.2 | 5841.7 | 5965.8 | 6144.8 | 6332.6 | 6400.0 | 6194.4 | 5909.1 | 5678.6 | 4804.9 |
| 20° | 5813.3 | 5834.6 | 5917.9 | 6081.0 | 6290.1 | 6563.1 | 6786.4 | 6678.3 | 6366.3 | 6111.1 | 5019.3 |
| 22.5° | 5887.8 | 5905.5 | 5976.4 | 6150.1 | 6400.0 | 6742.1 | 7172.7 | 7149.7 | 6875.0 | 6545.3 | 5255.1 |
| 25° | 6089.8 | 6118.2 | 6153.6 | 6258.2 | 6499.2 | 6924.6 | 7493.5 | 7653.1 | 7367.7 | 6999.1 | 5471.3 |
| 27.5° | 6470.9 | 6493.9 | 6492.2 | 6506.3 | 6642.8 | 7082.4 | 7771.8 | 8151.1 | 7856.9 | 7458.1 | 5680.4 |
| 30° | 6905.1 | 6914.0 | 6921.1 | 6889.2 | 6919.3 | 7243.6 | 8027.0 | 8643.8 | 8349.6 | 7929.5 | 5863.0 |
| 32.5° | 7433.3 | 7451.0 | 7390.7 | 7309.2 | 7284.4 | 7482.9 | 8237.9 | 9136.5 | 8932.7 | 8408.1 | 6043.8 |
| 35° | 8057.2 | 8103.2 | 7980.9 | 7837.4 | 7736.4 | 7826.7 | 8521.5 | 9639.9 | 9530.0 | 9019.5 | 6283.0 |
| 37.5° | 8769.6 | 8826.4 | 8712.9 | 8431.1 | 8287.6 | 8312.4 | 8891.9 | 10262.0 | 10285.0 | 9716.1 | 6639.3 |
| 40° | 9352.8 | 9427.2 | 9430.7 | 9032.0 | 8814.0 | 8842.3 | 9361.6 | 10931.9 | 11196.0 | 10577.5 | 7059.3 |
| 42.5° | 9737.4 | 9810.0 | 9886.2 | 9652.3 | 9423.6 | 9584.9 | 9909.3 | 11658.6 | 12220.4 | 11623.1 | 7646.0 |
| 45° | 10159.2 | 10224.8 | 10267.3 | 10160.9 | 10033.3 | 10451.6 | 10570.4 | 12431.3 | 13312.2 | 12791.1 | 8287.6 |
| 47.5° | 10648.3 | 10721.0 | 10761.8 | 10660.8 | 10612.9 | 11212.0 | 11282.9 | 13152.7 | 14478.4 | 13925.4 | 8996.5 |
| 50° | 11300.6 | 11355.5 | 11334.3 | 11270.4 | 11259.8 | 11795.1 | 11967.0 | 13828.0 | 15440.8 | 15146.6 | 9732.0 |
| 52.5° | 12112.3 | 12177.9 | 12200.9 | 12110.5 | 12069.8 | 12211.6 | 12518.2 | 14443.0 | 16316.4 | 16195.8 | 10517.2 |
| 55° | 12603.3 | 12707.8 | 13058.8 | 13200.5 | 13298.0 | 12750.4 | 13111.9 | 15121.8 | 17101.5 | 17301.8 | 11360.8 |
| 57.5° | 11974.1 | 12108.8 | 12893.9 | 13602.9 | 14519.2 | 14097.4 | 13953.8 | 15830.7 | 17886.7 | 18374.1 | 12371.1 |
| 60° | 10439.2 | 10469.3 | 11481.4 | 12787.6 | 14630.8 | 15829.0 | 15710.2 | 16958.0 | 18737.4 | 19455.2 | 13702.1 |
| 62.5° | 7241.9 | 7305.7 | 8502.0 | 10586.3 | 13251.9 | 16452.8 | 18698.4 | 18904.0 | 19956.8 | 21073.4 | 15653.5 |
| 65° | 3734.4 | 3651.1 | 4741.1 | 6653.4 | 9990.8 | 14971.1 | 21119.5 | 22482.4 | 22601.2 | 23604.3 | 18400.7 |
| 67.5° | 2298.8 | 2336.0 | 2846.4 | 3885.0 | 5907.3 | 10880.5 | 20866.0 | 26854.8 | 26229.2 | 26711.3 | 20951.1 |
| 70° | 1726.3 | 1772.4 | 2123.3 | 2658.5 | 3601.4 | 6221.0 | 16780.7 | 27914.7 | 28788.5 | 28664.4 | 21727.4 |
| 71° | 1501.2 | 1549.0 | 1914.2 | 2419.3 | 3025.4 | 4801.3 | 14138.1 | 26805.2 | 28877.1 | 28855.8 | 21434.9 |
| 72.5° | 1279.6 | 1309.8 | 1595.1 | 2048.8 | 2550.4 | 3365.7 | 10621.8 | 24040.3 | 27645.3 | 28352.5 | 20391.0 |
| 75° | 1004.9 | 1028.0 | 1155.6 | 1563.2 | 2008.1 | 2066.6 | 5699.9 | 18023.1 | 22705.7 | 24052.7 | 16975.7 |
| 77.5° | 818.8 | 834.8 | 900.4 | 1160.9 | 1549.0 | 1464.0 | 2990.0 | 11731.3 | 14225.0 | 15580.8 | 9999.7 |
| 80° | 650.5 | 668.2 | 707.2 | 786.9 | 1160.9 | 1043.9 | 1426.8 | 5944.5 | 6871.4 | 6857.3 | 3991.4 |
| 82.5° | 505.1 | 510.4 | 556.5 | 577.8 | 794.0 | 740.8 | 772.7 | 2516.8 | 2787.9 | 2880.1 | 1440.9 |
| 85° | 319.0 | 335.0 | 492.7 | 443.1 | 475.0 | 434.2 | 381.1 | 999.6 | 1231.8 | 1214.1 | 576.0 |
| 87.5° | 97.5 | 102.8 | 166.6 | 187.9 | 210.9 | 189.6 | 140.0 | 294.2 | 359.8 | 389.9 | 143.6 |
| 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° | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 | 3957.7 |
| 2.5° | 3980.7 | 3961.2 | 3892.1 | 3835.4 | 3782.2 | 3723.7 | 3674.1 | 3659.9 | 3647.5 | 3642.2 | 3640.4 |
| 5° | 4017.9 | 3959.5 | 3823.0 | 3711.3 | 3622.7 | 3541.2 | 3489.8 | 3466.7 | 3443.7 | 3443.7 | 3450.8 |
| 7.5° | 4071.1 | 3964.8 | 3753.9 | 3587.3 | 3475.6 | 3399.4 | 3362.2 | 3358.6 | 3363.9 | 3369.3 | 3371.0 |
| 10° | 4129.6 | 3961.2 | 3652.8 | 3445.5 | 3346.2 | 3310.8 | 3312.5 | 3342.7 | 3371.0 | 3392.3 | 3395.8 |
| 12.5° | 4186.3 | 3940.0 | 3534.1 | 3312.5 | 3248.7 | 3255.8 | 3305.5 | 3372.8 | 3427.7 | 3457.9 | 3459.6 |
| 15° | 4250.1 | 3906.3 | 3390.5 | 3186.7 | 3165.4 | 3220.4 | 3312.5 | 3415.3 | 3498.6 | 3548.3 | 3553.6 |
| 17.5° | 4303.3 | 3849.6 | 3239.9 | 3064.4 | 3091.0 | 3192.0 | 3319.6 | 3452.6 | 3553.6 | 3615.6 | 3626.3 |
| 20° | 4363.6 | 3776.9 | 3083.9 | 2947.4 | 3023.6 | 3160.1 | 3305.5 | 3449.0 | 3553.6 | 3613.8 | 3628.0 |
| 22.5° | 4411.4 | 3674.1 | 2935.0 | 2851.7 | 2963.4 | 3121.1 | 3257.6 | 3372.8 | 3457.9 | 3489.8 | 3511.0 |
| 25° | 4430.9 | 3544.7 | 2795.0 | 2773.7 | 2915.5 | 3057.3 | 3149.5 | 3215.1 | 3241.6 | 3238.1 | 3247.0 |
| 27.5° | 4420.3 | 3395.8 | 2674.5 | 2711.7 | 2855.3 | 2958.1 | 3004.2 | 2998.8 | 2951.0 | 2906.7 | 2927.9 |
| 30° | 4376.0 | 3218.6 | 2573.5 | 2647.9 | 2777.3 | 2834.0 | 2826.9 | 2757.8 | 2667.4 | 2584.1 | 2589.4 |
| 32.5° | 4296.2 | 3027.2 | 2479.5 | 2575.2 | 2667.4 | 2692.2 | 2644.4 | 2554.0 | 2424.6 | 2316.5 | 2300.5 |
| 35° | 4228.9 | 2844.6 | 2396.2 | 2491.9 | 2557.5 | 2545.1 | 2499.0 | 2382.1 | 2265.1 | 2169.4 | 2153.4 |
| 37.5° | 4218.2 | 2688.7 | 2316.5 | 2398.0 | 2435.2 | 2417.5 | 2360.8 | 2261.5 | 2219.0 | 2146.3 | 2137.5 |
| 40° | 4274.9 | 2578.8 | 2234.9 | 2298.8 | 2316.5 | 2302.3 | 2240.3 | 2183.5 | 2222.5 | 2204.8 | 2204.8 |
| 42.5° | 4429.1 | 2520.3 | 2162.3 | 2199.5 | 2213.7 | 2224.3 | 2180.0 | 2132.2 | 2180.0 | 2098.5 | 2071.9 |
| 45° | 4673.7 | 2522.1 | 2096.7 | 2102.0 | 2144.6 | 2181.8 | 2151.6 | 2080.8 | 2055.9 | 1892.9 | 1861.0 |
| 47.5° | 5033.5 | 2582.3 | 2043.5 | 2009.9 | 2086.1 | 2148.1 | 2105.6 | 2002.8 | 1892.9 | 1784.8 | 1765.3 |
| 50° | 5453.6 | 2690.4 | 1995.7 | 1914.2 | 2008.1 | 2105.6 | 2073.7 | 1953.1 | 1839.7 | 1774.1 | 1761.7 |
| 52.5° | 5919.7 | 2826.9 | 1937.2 | 1807.8 | 1912.4 | 2086.1 | 2080.8 | 1946.1 | 1790.1 | 1745.8 | 1735.1 |
| 55° | 6495.7 | 2961.6 | 1864.5 | 1683.7 | 1827.3 | 2070.1 | 2061.3 | 1887.6 | 1779.5 | 1747.5 | 1744.0 |
| 57.5° | 7165.7 | 3156.6 | 1760.0 | 1557.9 | 1729.8 | 2004.5 | 1985.0 | 1852.1 | 1744.0 | 1721.0 | 1719.2 |
| 60° | 8245.0 | 3459.6 | 1611.1 | 1442.7 | 1630.6 | 1889.3 | 1914.2 | 1791.9 | 1687.3 | 1682.0 | 1680.2 |
| 62.5° | 9664.7 | 3885.0 | 1456.9 | 1324.0 | 1515.4 | 1740.5 | 1811.4 | 1710.3 | 1627.0 | 1653.6 | 1657.2 |
| 65° | 11624.9 | 4243.0 | 1297.4 | 1222.9 | 1387.8 | 1596.9 | 1713.9 | 1634.1 | 1559.7 | 1611.1 | 1611.1 |
| 67.5° | 12902.8 | 4250.1 | 1152.0 | 1118.4 | 1258.4 | 1476.4 | 1611.1 | 1543.7 | 1472.8 | 1559.7 | 1563.2 |
| 70° | 12636.9 | 3723.7 | 1031.5 | 1008.5 | 1132.5 | 1347.0 | 1497.6 | 1444.5 | 1362.9 | 1440.9 | 1412.6 |
| 71° | 12208.0 | 3431.3 | 983.7 | 965.9 | 1082.9 | 1285.0 | 1444.5 | 1400.2 | 1318.6 | 1370.0 | 1354.1 |
| 72.5° | 11523.9 | 2979.3 | 905.7 | 909.2 | 1008.5 | 1207.0 | 1370.0 | 1324.0 | 1242.4 | 1270.8 | 1265.5 |
| 75° | 9740.9 | 2601.8 | 774.5 | 790.5 | 866.7 | 1074.1 | 1221.2 | 1185.7 | 1102.4 | 1102.4 | 1097.1 |
| 77.5° | 6089.8 | 1818.4 | 643.4 | 652.2 | 735.5 | 919.9 | 1049.2 | 1019.1 | 939.4 | 912.8 | 905.7 |
| 80° | 2272.2 | 939.4 | 503.4 | 514.0 | 565.4 | 724.9 | 868.5 | 840.1 | 758.6 | 728.4 | 700.1 |
| 82.5° | 859.6 | 471.4 | 370.4 | 361.6 | 416.5 | 553.0 | 680.6 | 646.9 | 583.1 | 510.4 | 489.2 |
| 85° | 324.3 | 234.0 | 226.9 | 219.8 | 244.6 | 327.9 | 421.8 | 414.7 | 347.4 | 296.0 | 290.7 |
| 87.5° | 85.1 | 76.2 | 88.6 | 65.6 | 69.1 | 62.0 | 63.8 | 26.6 | 12.4 | 5.3 | 3.5 |
| 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)