

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: P531936

Luminaire Tested: **GALN-SA7B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30773 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

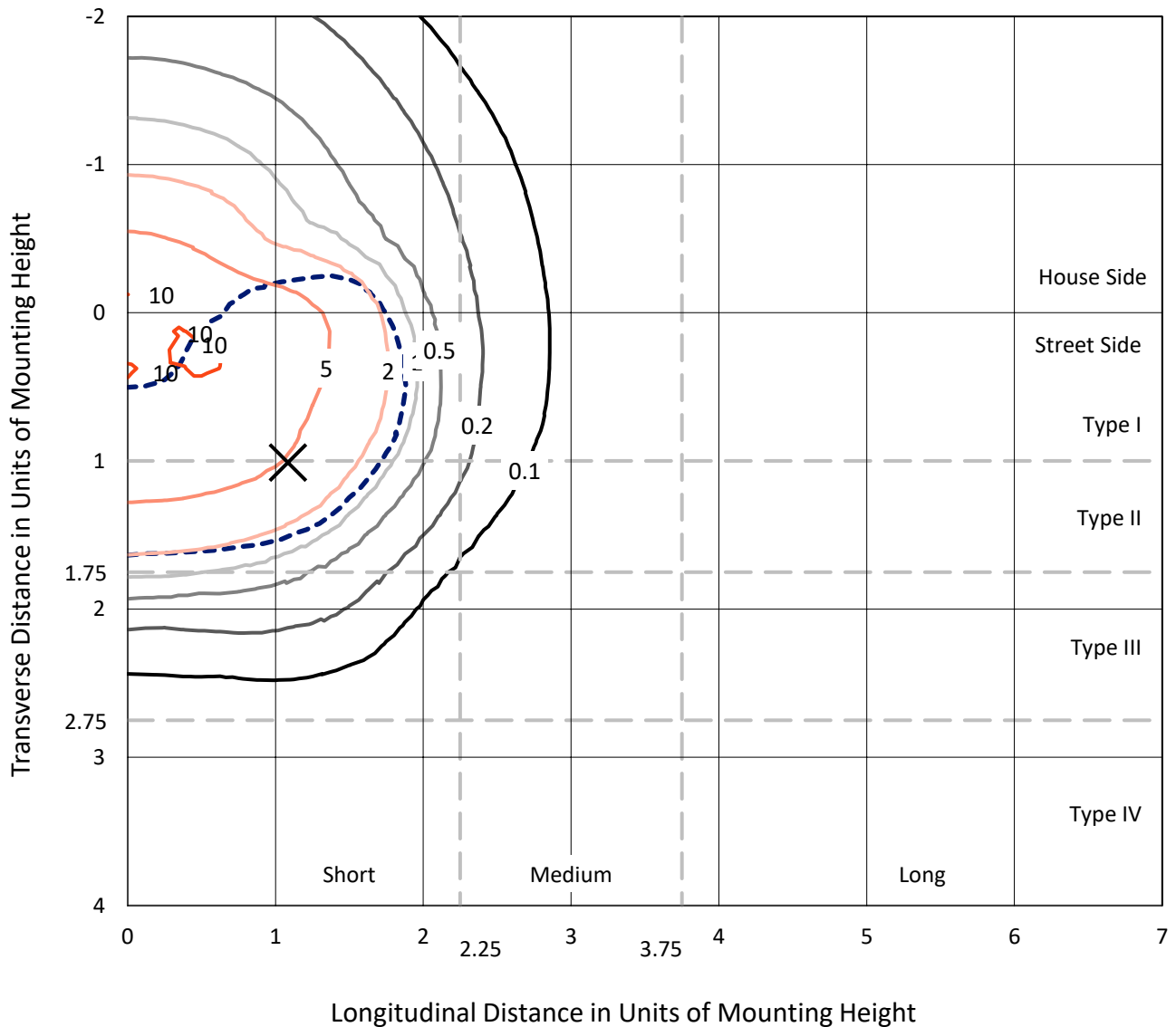
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

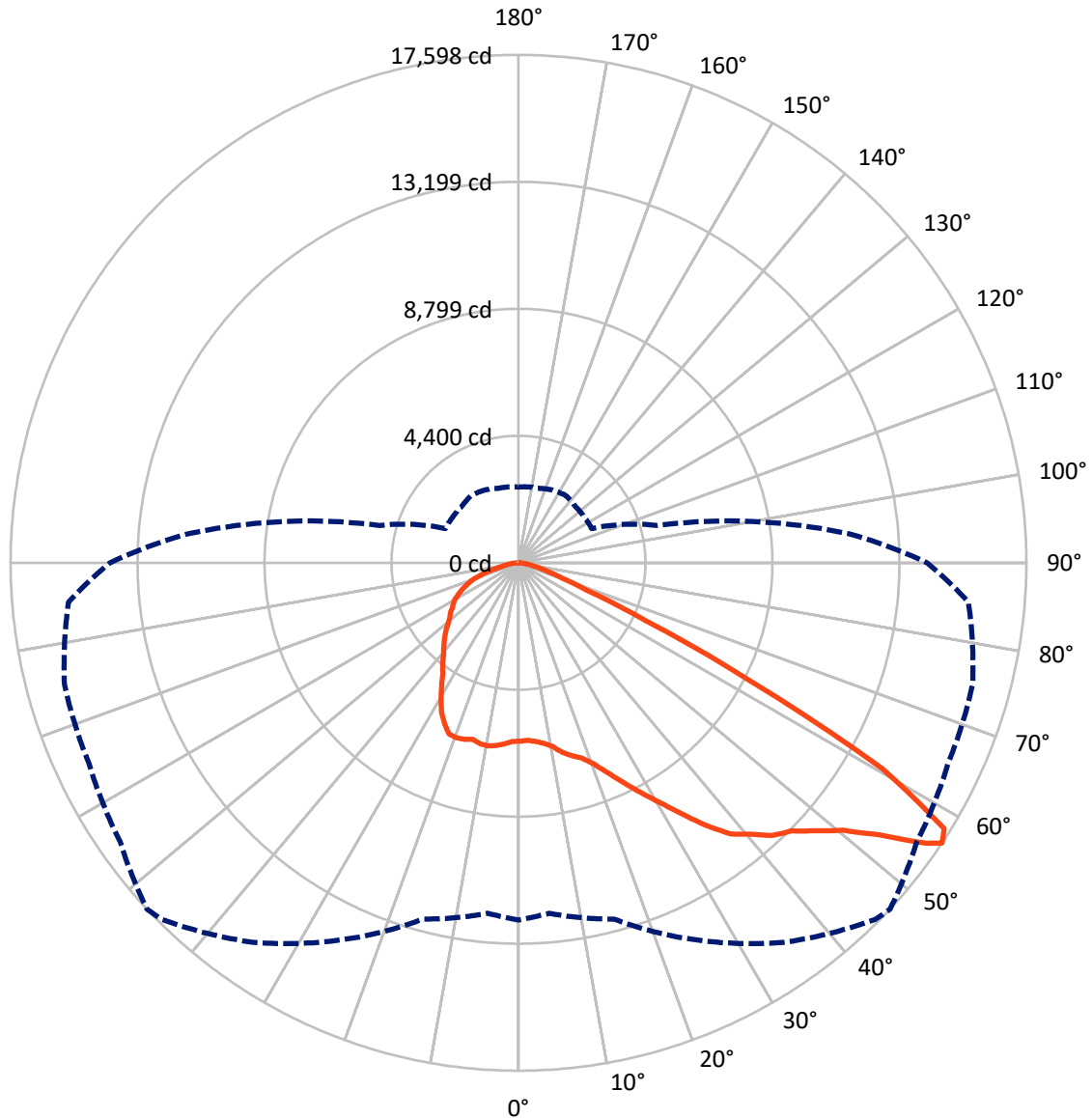
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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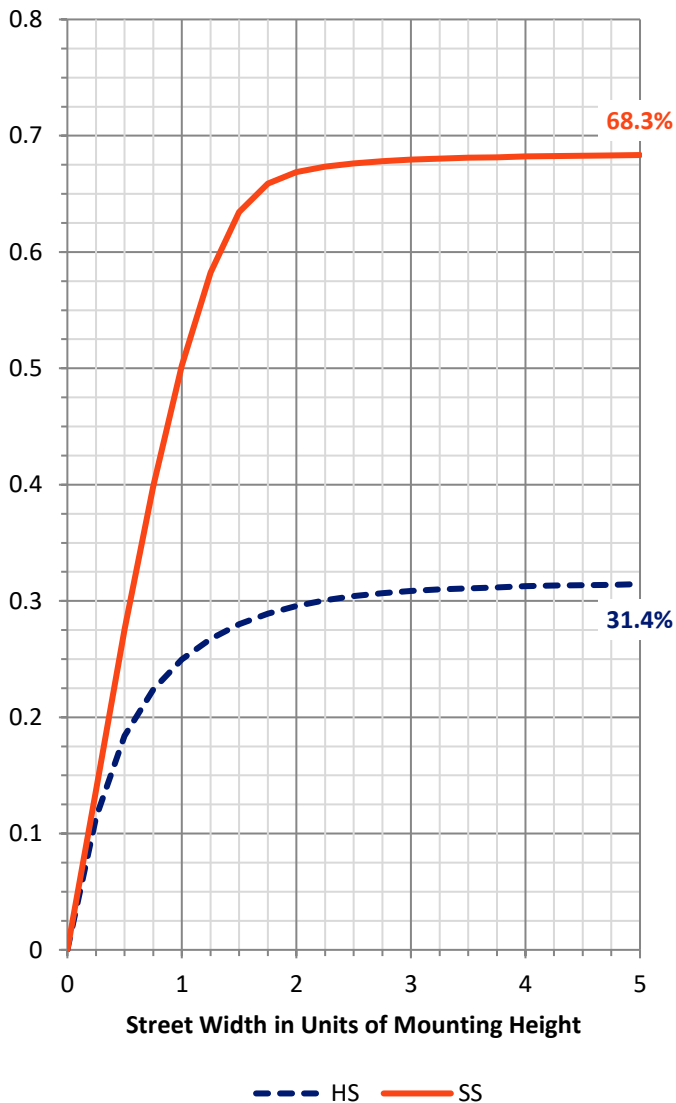
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9751.6 | 0.0 | 9751.6 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 21021.4 | 0.0 | 21021.4 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 30773.0 | 0.0 | 30773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 602.3 | 2.0 |
| 10°-20° | 1899.9 | 6.2 |
| 20°-30° | 3358.6 | 10.9 |
| 30°-40° | 5044.5 | 16.4 |
| 40°-50° | 6923.1 | 22.5 |
| 50°-60° | 8248.0 | 26.8 |
| 60°-70° | 3529.6 | 11.5 |
| 70°-80° | 998.9 | 3.2 |
| 80°-90° | 168.1 | 0.5 |
| 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° | 30773.0 | 100.0 |
| 0°-180° | 30773.0 | 100.0 |

Coefficient of Utilization



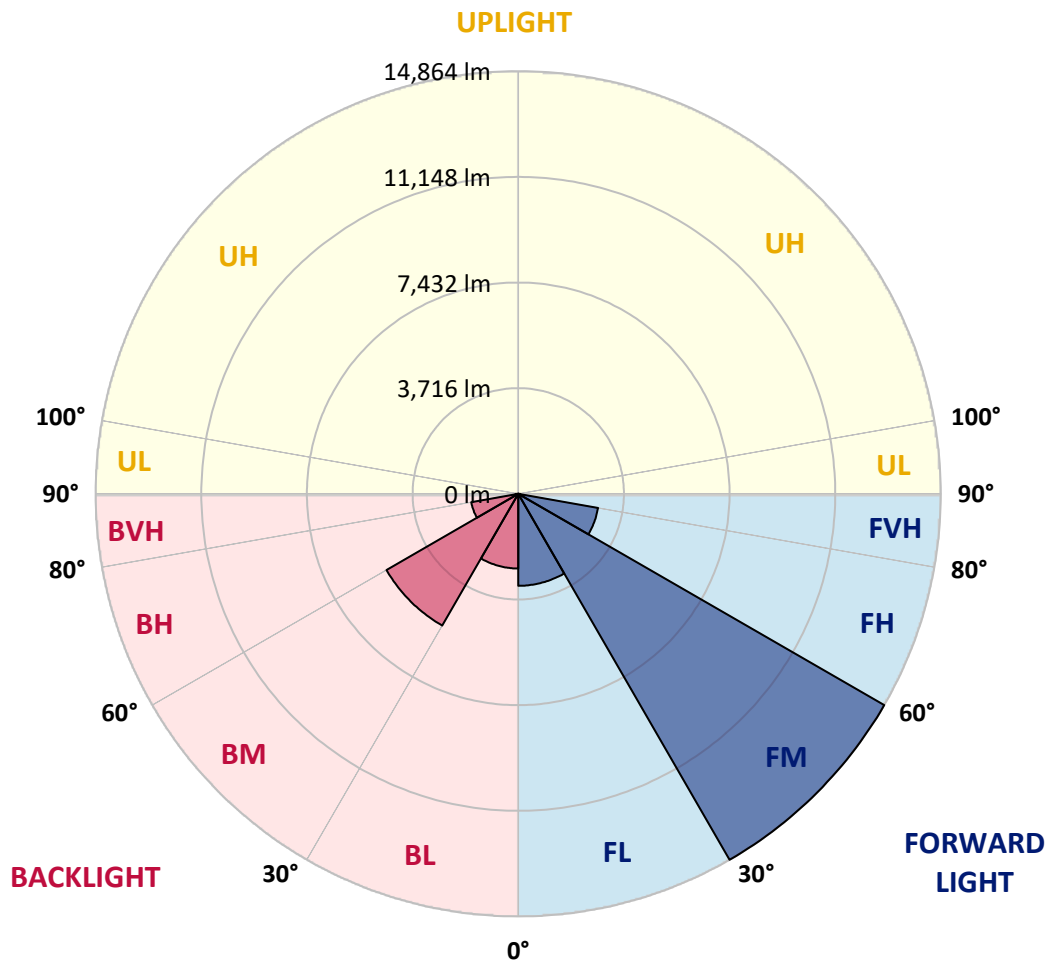
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3235.3 | 10.5 | | | |
| FM (30°-60°) | 14864.1 | 48.3 | | | |
| FH (60°-80°) | 2850.7 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 71.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2625.5 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 5351.5 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 1677.8 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 96.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 |
| 2.5° | 6157.8 | 6146.0 | 6138.2 | 6201.0 | 6177.4 | 6181.4 | 6157.8 | 6181.4 | 6197.1 | 6161.7 | 6212.8 |
| 5° | 6146.0 | 6181.4 | 6150.0 | 6169.6 | 6220.6 | 6204.9 | 6220.6 | 6267.7 | 6255.9 | 6244.2 | 6228.5 |
| 7.5° | 6255.9 | 6259.9 | 6283.4 | 6291.3 | 6307.0 | 6291.3 | 6314.8 | 6358.0 | 6346.2 | 6279.5 | 6287.3 |
| 10° | 6412.9 | 6420.8 | 6424.7 | 6467.9 | 6495.3 | 6499.3 | 6471.8 | 6432.5 | 6428.6 | 6518.9 | 6456.1 |
| 12.5° | 6593.5 | 6573.8 | 6620.9 | 6636.6 | 6668.0 | 6703.3 | 6738.7 | 6656.2 | 6707.3 | 6711.2 | 6636.6 |
| 15° | 6856.4 | 6876.0 | 6821.1 | 6821.1 | 6832.9 | 6836.8 | 6934.9 | 6895.7 | 6887.8 | 6844.6 | 6876.0 |
| 17.5° | 7248.9 | 7115.4 | 7111.5 | 7056.6 | 7048.7 | 7080.1 | 7115.4 | 7146.8 | 7252.8 | 7166.5 | 6997.7 |
| 20° | 7535.4 | 7566.8 | 7453.0 | 7386.2 | 7398.0 | 7468.7 | 7433.3 | 7574.6 | 7649.2 | 7507.9 | 7343.1 |
| 22.5° | 8041.7 | 7935.7 | 7963.2 | 7814.0 | 7825.8 | 7900.4 | 7896.4 | 8041.7 | 8084.8 | 7861.1 | 7621.7 |
| 25° | 8383.1 | 8355.6 | 8379.2 | 8261.4 | 8277.1 | 8336.0 | 8430.2 | 8669.6 | 8599.0 | 8351.7 | 7798.3 |
| 27.5° | 8881.5 | 8826.6 | 8807.0 | 8763.8 | 8748.1 | 8905.1 | 9015.0 | 9270.1 | 9219.1 | 8858.0 | 8112.3 |
| 30° | 9391.7 | 9356.4 | 9376.0 | 9199.4 | 9262.2 | 9595.8 | 9627.2 | 9976.5 | 9953.0 | 9317.2 | 8461.6 |
| 32.5° | 9745.0 | 9764.6 | 9799.9 | 9701.8 | 9980.4 | 10247.3 | 10353.3 | 10749.7 | 10769.3 | 10106.0 | 9136.6 |
| 35° | 10314.0 | 10247.3 | 10266.9 | 10380.8 | 10510.3 | 10996.9 | 11169.6 | 11432.6 | 11597.4 | 10934.1 | 9784.2 |
| 37.5° | 10671.2 | 10741.8 | 10659.4 | 10839.9 | 11177.5 | 11762.2 | 11919.2 | 12190.0 | 12362.7 | 11750.5 | 10667.3 |
| 40° | 11228.5 | 11114.7 | 11173.5 | 11303.1 | 11648.4 | 12409.8 | 12366.6 | 12645.3 | 12700.2 | 12445.1 | 11491.4 |
| 42.5° | 11829.0 | 11774.0 | 11691.6 | 11986.0 | 12276.4 | 12829.8 | 12916.1 | 12786.6 | 13065.2 | 13124.1 | 12668.8 |
| 45° | 12547.2 | 12613.9 | 12625.7 | 12633.5 | 12888.6 | 13371.4 | 13253.6 | 13139.8 | 13461.6 | 13889.4 | 13398.8 |
| 47.5° | 13214.4 | 13002.4 | 13155.5 | 13367.4 | 13728.5 | 13732.4 | 13869.8 | 13599.0 | 13940.4 | 14321.1 | 14058.2 |
| 50° | 13438.1 | 13336.0 | 13540.1 | 13940.4 | 14497.7 | 14556.6 | 14572.3 | 14187.7 | 14364.3 | 14666.5 | 14285.8 |
| 52.5° | 13351.7 | 13316.4 | 13838.4 | 14458.5 | 15274.8 | 15573.1 | 15651.6 | 15176.7 | 15274.8 | 15137.5 | 14788.2 |
| 55° | 12939.6 | 13045.6 | 13571.5 | 14835.3 | 16087.2 | 17009.5 | 17158.7 | 16558.2 | 15934.2 | 16040.1 | 15655.5 |
| 56° | 12374.5 | 12190.0 | 12778.7 | 14407.5 | 16051.9 | 17476.6 | 17598.2 | 16848.6 | 16424.8 | 16287.4 | 15647.7 |
| 57.5° | 10498.5 | 10259.1 | 11032.3 | 12963.2 | 15161.0 | 17300.0 | 17390.2 | 16970.3 | 16342.3 | 16063.7 | 14505.6 |
| 60° | 6146.0 | 6263.8 | 7244.9 | 8940.4 | 11695.5 | 14183.8 | 14486.0 | 14792.1 | 14372.2 | 13124.1 | 10796.8 |
| 62.5° | 2967.1 | 2892.5 | 3595.0 | 5125.6 | 7127.2 | 9054.2 | 8964.0 | 9823.5 | 10294.4 | 9325.0 | 6817.2 |
| 65° | 1554.2 | 1546.3 | 1962.3 | 2798.3 | 3916.8 | 4756.7 | 4839.1 | 5302.2 | 5949.8 | 4803.8 | 3461.6 |
| 67.5° | 1142.1 | 1173.5 | 1381.5 | 1966.3 | 2519.6 | 2570.7 | 2558.9 | 2790.4 | 2853.2 | 2413.7 | 2127.2 |
| 70° | 894.8 | 910.5 | 1063.6 | 1495.3 | 1876.0 | 1679.8 | 1644.4 | 1671.9 | 1856.4 | 1934.9 | 1840.7 |
| 72.5° | 647.6 | 663.3 | 792.8 | 1008.6 | 1173.5 | 1146.0 | 1169.6 | 1322.6 | 1550.2 | 1632.7 | 1534.5 |
| 75° | 431.7 | 443.5 | 514.1 | 616.2 | 694.7 | 749.6 | 792.8 | 969.4 | 1181.3 | 1228.4 | 1181.3 |
| 77.5° | 298.3 | 310.0 | 357.1 | 435.6 | 443.5 | 478.8 | 494.5 | 576.9 | 706.4 | 765.3 | 733.9 |
| 80° | 168.8 | 168.8 | 192.3 | 223.7 | 274.7 | 321.8 | 329.7 | 396.4 | 455.3 | 494.5 | 502.4 |
| 82.5° | 78.5 | 82.4 | 102.0 | 137.4 | 180.5 | 223.7 | 231.6 | 274.7 | 317.9 | 357.1 | 368.9 |
| 85° | 39.2 | 43.2 | 58.9 | 82.4 | 109.9 | 133.4 | 129.5 | 133.4 | 141.3 | 133.4 | 137.4 |
| 87.5° | 11.8 | 11.8 | 15.7 | 19.6 | 15.7 | 19.6 | 19.6 | 23.5 | 27.5 | 31.4 | 35.3 |
| 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° | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 | 6181.4 |
| 2.5° | 6216.7 | 6228.5 | 6150.0 | 6224.5 | 6197.1 | 6193.1 | 6248.1 | 6240.2 | 6259.9 | 6252.0 | 6204.9 |
| 5° | 6220.6 | 6193.1 | 6275.6 | 6201.0 | 6236.3 | 6310.9 | 6259.9 | 6377.6 | 6318.7 | 6358.0 | 6271.6 |
| 7.5° | 6342.3 | 6350.1 | 6334.4 | 6365.8 | 6350.1 | 6385.4 | 6358.0 | 6385.4 | 6338.3 | 6342.3 | 6420.8 |
| 10° | 6448.2 | 6424.7 | 6452.2 | 6412.9 | 6440.4 | 6428.6 | 6365.8 | 6346.2 | 6361.9 | 6342.3 | 6393.3 |
| 12.5° | 6644.5 | 6601.3 | 6581.7 | 6534.6 | 6503.2 | 6385.4 | 6287.3 | 6232.4 | 6307.0 | 6318.7 | 6295.2 |
| 15° | 6844.6 | 6848.6 | 6758.3 | 6652.3 | 6456.1 | 6279.5 | 6303.0 | 6322.6 | 6322.6 | 6354.0 | 6295.2 |
| 17.5° | 6970.2 | 6970.2 | 6887.8 | 6675.9 | 6475.7 | 6373.7 | 6350.1 | 6287.3 | 6232.4 | 6224.5 | 6220.6 |
| 20° | 7190.0 | 7123.3 | 6934.9 | 6671.9 | 6467.9 | 6420.8 | 6244.2 | 6095.0 | 5981.2 | 5942.0 | 5938.0 |
| 22.5° | 7441.2 | 7272.4 | 7009.5 | 6679.8 | 6456.1 | 6389.4 | 6059.7 | 5836.0 | 5631.9 | 5545.6 | 5557.3 |
| 25° | 7672.7 | 7401.9 | 7052.6 | 6644.5 | 6412.9 | 6091.1 | 5722.2 | 5412.1 | 5200.2 | 5129.5 | 5094.2 |
| 27.5° | 7833.6 | 7539.3 | 7052.6 | 6675.9 | 6252.0 | 5757.5 | 5380.7 | 4984.3 | 4799.9 | 4752.8 | 4760.6 |
| 30° | 8049.5 | 7712.0 | 7174.3 | 6609.2 | 5930.2 | 5325.8 | 4874.4 | 4615.4 | 4505.5 | 4466.3 | 4493.8 |
| 32.5° | 8555.8 | 8163.3 | 7343.1 | 6448.2 | 5549.5 | 4894.1 | 4529.1 | 4383.9 | 4222.9 | 4144.5 | 4117.0 |
| 35° | 9105.2 | 8591.1 | 7507.9 | 6177.4 | 5121.7 | 4501.6 | 4274.0 | 4140.5 | 3948.2 | 3861.9 | 3877.6 |
| 37.5° | 9882.3 | 9140.6 | 7519.7 | 5730.0 | 4658.6 | 4281.8 | 4073.8 | 3865.8 | 3708.8 | 3575.4 | 3536.1 |
| 40° | 10930.2 | 9890.2 | 7492.2 | 5259.1 | 4285.7 | 4022.8 | 3869.7 | 3610.7 | 3434.1 | 3339.9 | 3359.5 |
| 42.5° | 11852.5 | 10769.3 | 7378.4 | 4725.3 | 3948.2 | 3846.2 | 3673.5 | 3418.4 | 3245.7 | 3147.6 | 3139.7 |
| 45° | 12629.6 | 11416.9 | 7162.5 | 4270.0 | 3665.6 | 3649.9 | 3449.8 | 3253.6 | 3116.2 | 3025.9 | 3065.2 |
| 47.5° | 13347.8 | 11938.9 | 6836.8 | 3814.8 | 3406.6 | 3438.0 | 3245.7 | 3124.0 | 3037.7 | 2955.3 | 2951.4 |
| 50° | 13606.8 | 11931.0 | 6550.3 | 3438.0 | 3198.6 | 3182.9 | 3175.1 | 3045.5 | 2955.3 | 2884.6 | 2916.0 |
| 52.5° | 14038.6 | 12064.4 | 6240.2 | 3179.0 | 3010.2 | 3014.1 | 3041.6 | 2947.4 | 2845.4 | 2802.2 | 2841.5 |
| 55° | 14658.7 | 12084.1 | 5557.3 | 2876.8 | 2853.2 | 2880.7 | 2880.7 | 2817.9 | 2731.6 | 2696.3 | 2676.6 |
| 56° | 14152.4 | 11499.3 | 4984.3 | 2798.3 | 2774.7 | 2774.7 | 2849.3 | 2778.7 | 2672.7 | 2645.2 | 2621.7 |
| 57.5° | 13053.5 | 10074.6 | 4171.9 | 2704.1 | 2668.8 | 2723.7 | 2763.0 | 2688.4 | 2590.3 | 2551.0 | 2574.6 |
| 60° | 9003.2 | 6817.2 | 3135.8 | 2500.0 | 2500.0 | 2590.3 | 2621.7 | 2511.8 | 2468.6 | 2464.7 | 2433.3 |
| 62.5° | 5255.1 | 3971.8 | 2452.9 | 2315.6 | 2323.4 | 2398.0 | 2421.5 | 2358.7 | 2303.8 | 2370.5 | 2401.9 |
| 65° | 2786.5 | 2370.5 | 2103.6 | 2119.3 | 2123.2 | 2182.1 | 2284.2 | 2280.2 | 2276.3 | 2295.9 | 2299.9 |
| 67.5° | 2017.3 | 1970.2 | 1911.3 | 1895.6 | 1903.5 | 1946.6 | 2048.7 | 2127.2 | 2123.2 | 2076.2 | 2040.8 |
| 70° | 1797.5 | 1730.8 | 1695.5 | 1699.4 | 1668.0 | 1719.0 | 1801.4 | 1852.4 | 1762.2 | 1707.2 | 1683.7 |
| 72.5° | 1495.3 | 1475.7 | 1452.1 | 1456.1 | 1393.3 | 1381.5 | 1287.3 | 1287.3 | 1263.7 | 1248.0 | 1275.5 |
| 75° | 1142.1 | 1134.2 | 1146.0 | 1126.4 | 1059.7 | 989.0 | 934.1 | 883.1 | 804.6 | 773.2 | 757.5 |
| 77.5° | 722.1 | 745.7 | 773.2 | 730.0 | 702.5 | 651.5 | 596.6 | 545.5 | 482.7 | 447.4 | 447.4 |
| 80° | 490.6 | 510.2 | 529.8 | 522.0 | 490.6 | 443.5 | 400.3 | 345.4 | 302.2 | 274.7 | 270.8 |
| 82.5° | 372.8 | 388.5 | 416.0 | 384.6 | 353.2 | 314.0 | 278.7 | 239.4 | 200.2 | 168.8 | 168.8 |
| 85° | 133.4 | 153.1 | 168.8 | 184.5 | 196.2 | 200.2 | 172.7 | 141.3 | 113.8 | 90.3 | 86.3 |
| 87.5° | 35.3 | 39.2 | 43.2 | 39.2 | 39.2 | 39.2 | 43.2 | 39.2 | 35.3 | 27.5 | 27.5 |
| 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)