

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: P457002

Luminaire Tested: **GALN-SA8B-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45847 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

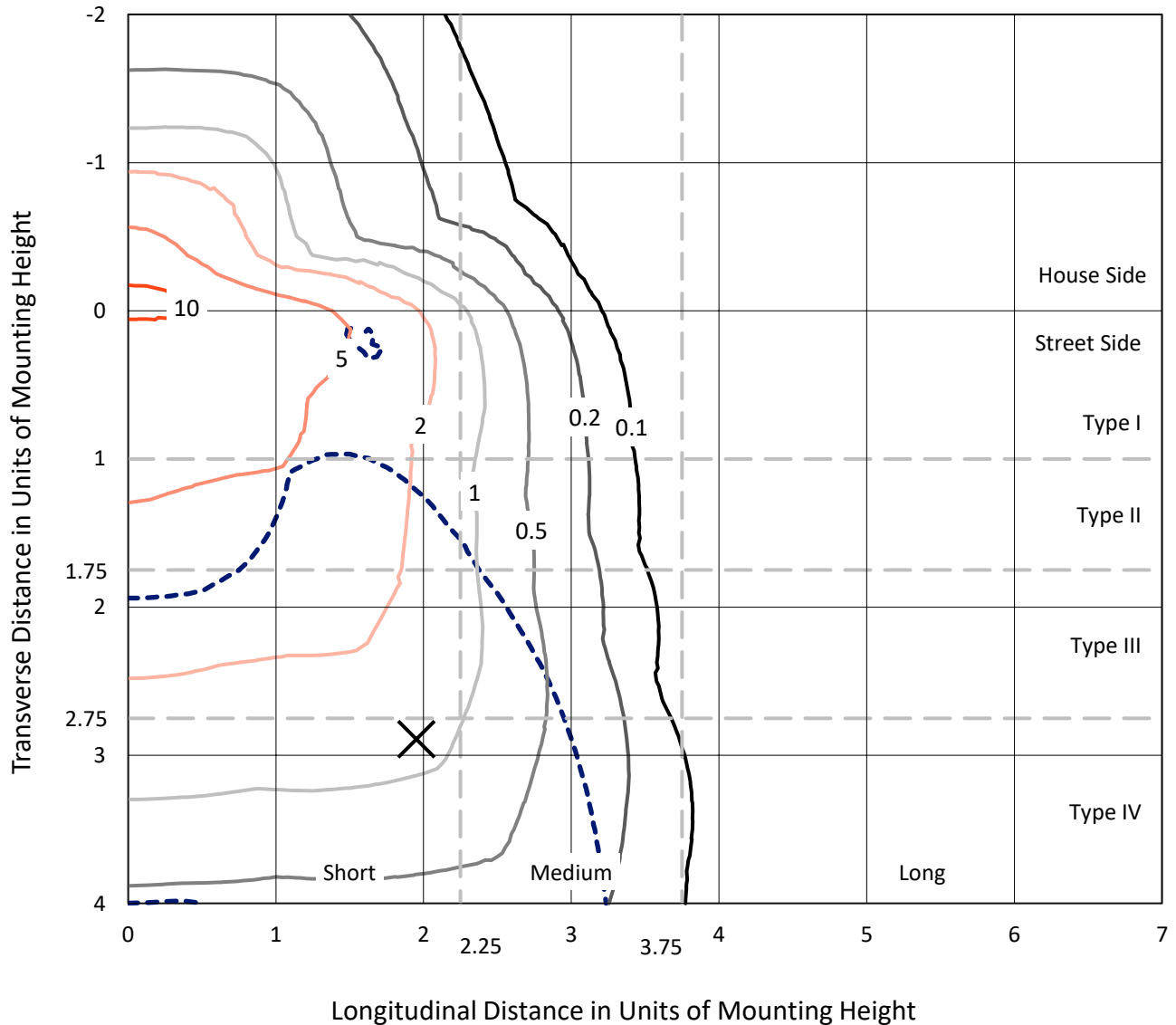
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

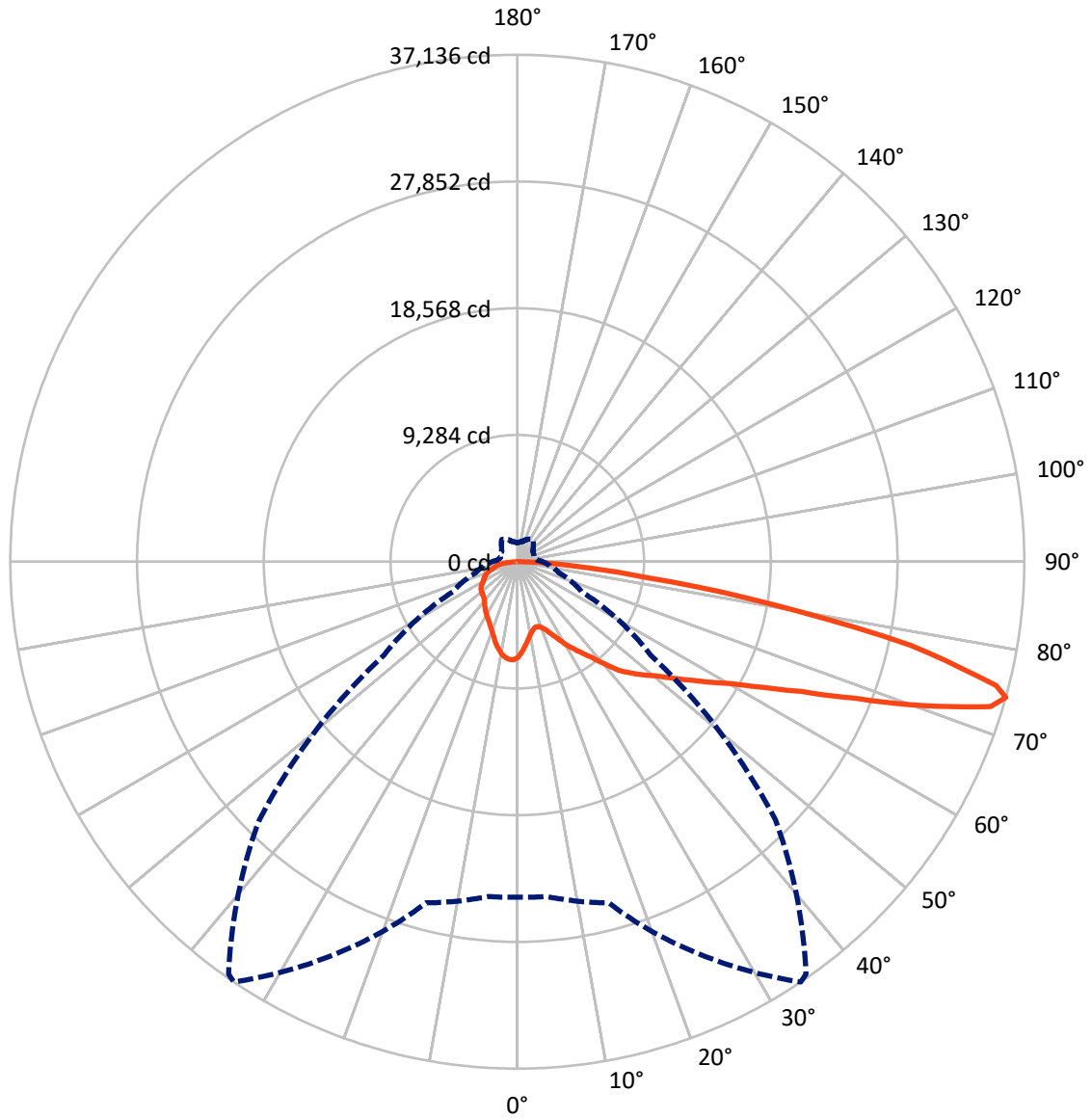
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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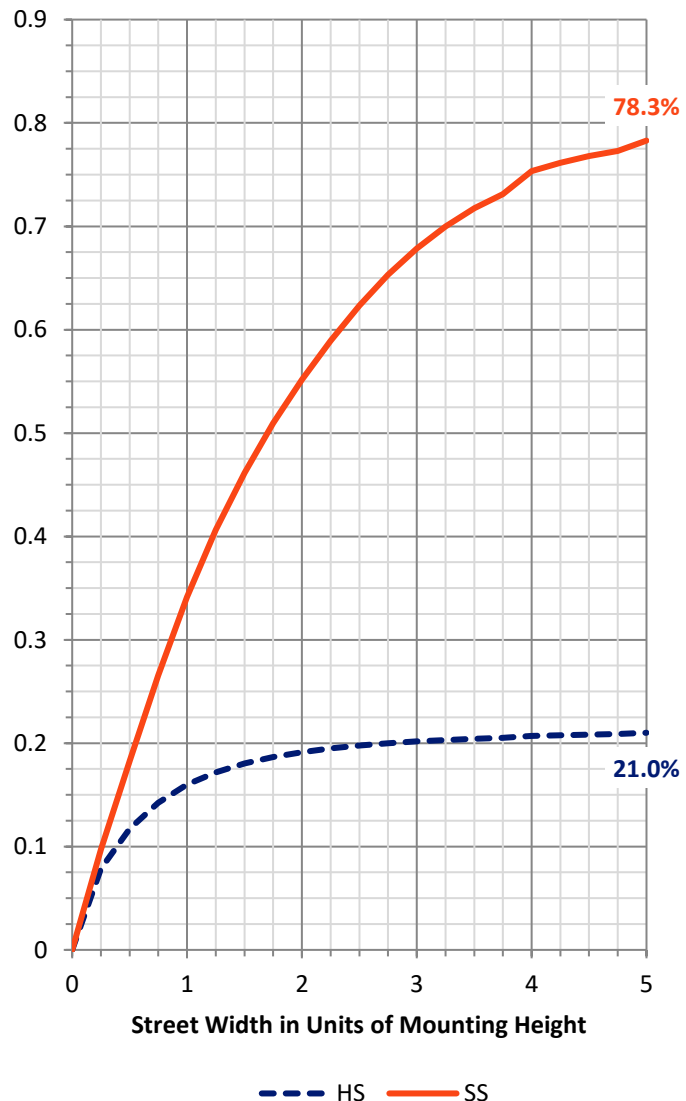
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9756.6 | 0.0 | 9756.6 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 36090.4 | 0.0 | 36090.4 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 45847.0 | 0.0 | 45847.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 636.6 | 1.4 |
| 10°-20° | 1742.7 | 3.8 |
| 20°-30° | 2873.3 | 6.3 |
| 30°-40° | 4303.8 | 9.4 |
| 40°-50° | 6256.6 | 13.6 |
| 50°-60° | 8739.0 | 19.1 |
| 60°-70° | 10940.7 | 23.9 |
| 70°-80° | 9047.1 | 19.7 |
| 80°-90° | 1307.2 | 2.9 |
| 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° | 45847.0 | 100.0 |
| 0°-180° | 45847.0 | 100.0 |

Coefficient of Utilization



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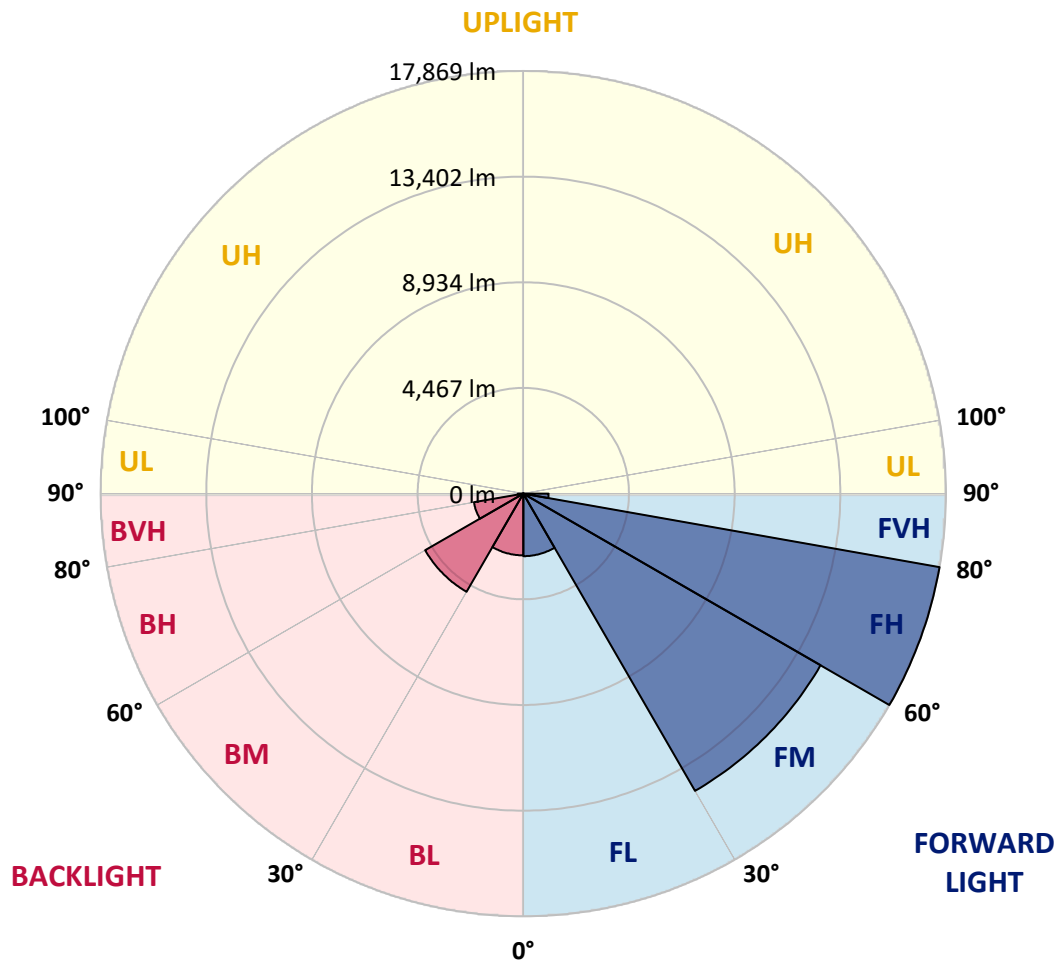
CATALOG NUMBER: GALN-SA8B-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2642.9 | 5.8 | | | |
| FM (30°-60°) | 14507.9 | 31.6 | | | |
| FH (60°-80°) | 17868.7 | 39.0 | | | G5 |
| FVH (80°-90°) | 1070.9 | 2.3 | | | G5 |
| BL (0°-30°) | 2609.7 | 5.7 | B4/5000 | | |
| BM (30°-60°) | 4791.5 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2119.1 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 236.3 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 |
| 2.5° | 6469.1 | 6502.1 | 6519.9 | 6583.4 | 6598.6 | 6618.9 | 6672.3 | 6743.4 | 6834.8 | 6916.1 | 6987.2 |
| 5° | 5930.6 | 5981.4 | 6011.9 | 6067.8 | 6177.0 | 6187.2 | 6329.4 | 6492.0 | 6677.4 | 6850.1 | 6992.3 |
| 7.5° | 5420.1 | 5476.0 | 5501.4 | 5603.0 | 5747.8 | 5770.6 | 5978.9 | 6235.4 | 6545.3 | 6806.9 | 7025.3 |
| 10° | 5036.6 | 5064.5 | 5120.4 | 5196.6 | 5369.3 | 5384.6 | 5656.3 | 5999.2 | 6400.5 | 6786.6 | 7081.2 |
| 12.5° | 4828.3 | 4843.6 | 4856.3 | 4937.5 | 5107.7 | 5130.6 | 5415.0 | 5803.6 | 6286.2 | 6801.8 | 7172.6 |
| 15° | 4858.8 | 4863.9 | 4808.0 | 4823.2 | 4960.4 | 4993.4 | 5275.3 | 5674.1 | 6215.1 | 6839.9 | 7309.8 |
| 17.5° | 5115.3 | 5097.6 | 4960.4 | 4889.3 | 4985.8 | 5001.0 | 5247.4 | 5623.3 | 6182.1 | 6911.0 | 7452.0 |
| 20° | 5519.2 | 5493.8 | 5257.6 | 5100.1 | 5156.0 | 5168.7 | 5338.8 | 5661.4 | 6215.1 | 7027.9 | 7673.0 |
| 22.5° | 6022.1 | 6011.9 | 5653.8 | 5463.3 | 5460.8 | 5460.8 | 5549.7 | 5798.6 | 6314.2 | 7187.9 | 7904.1 |
| 25° | 6725.6 | 6672.3 | 6204.9 | 5958.6 | 5890.0 | 5884.9 | 5874.8 | 6024.6 | 6441.2 | 7358.1 | 8178.4 |
| 27.5° | 7447.0 | 7355.5 | 6939.0 | 6560.5 | 6413.2 | 6395.4 | 6329.4 | 6344.6 | 6603.7 | 7551.1 | 8490.8 |
| 30° | 8094.6 | 8036.2 | 7645.1 | 7226.0 | 7050.7 | 7010.1 | 6827.2 | 6743.4 | 6875.5 | 7899.1 | 8988.7 |
| 32.5° | 8589.9 | 8554.3 | 8249.6 | 7868.6 | 7609.5 | 7601.9 | 7335.2 | 7266.6 | 7299.6 | 8320.7 | 9557.6 |
| 35° | 8991.2 | 9003.9 | 8849.0 | 8518.8 | 8221.6 | 8178.4 | 8000.6 | 7914.3 | 7817.8 | 8930.2 | 10273.8 |
| 37.5° | 9539.8 | 9567.8 | 9557.6 | 9273.1 | 8909.9 | 8920.1 | 8879.4 | 8737.2 | 8480.7 | 9610.9 | 11068.8 |
| 40° | 10144.3 | 10164.6 | 10162.1 | 10052.9 | 9862.4 | 9872.5 | 9857.3 | 9694.8 | 9311.2 | 10477.0 | 11952.7 |
| 42.5° | 10979.9 | 10883.4 | 10632.0 | 10741.2 | 10852.9 | 10901.2 | 11005.3 | 10850.4 | 10324.6 | 11401.6 | 12783.3 |
| 45° | 11914.6 | 11731.7 | 11162.8 | 11213.6 | 11627.6 | 11719.0 | 12293.1 | 12079.7 | 11424.4 | 12463.2 | 13761.1 |
| 47.5° | 12503.9 | 12323.5 | 11843.5 | 11833.3 | 12382.0 | 12470.8 | 13486.8 | 13408.1 | 12425.1 | 13608.7 | 14954.9 |
| 50° | 13029.6 | 13004.2 | 12463.2 | 12592.8 | 13128.7 | 13260.8 | 14787.2 | 14713.6 | 13423.3 | 14959.9 | 16255.3 |
| 52.5° | 13809.4 | 13603.6 | 13171.9 | 13438.5 | 14147.2 | 14319.9 | 16077.5 | 15861.6 | 14340.2 | 16153.7 | 17517.6 |
| 55° | 14159.9 | 14111.6 | 14086.2 | 14317.3 | 15290.1 | 15414.6 | 17332.2 | 16836.9 | 15122.5 | 17164.6 | 18477.7 |
| 57.5° | 15097.1 | 15008.2 | 15259.6 | 15417.1 | 16636.3 | 16826.8 | 18642.8 | 17855.4 | 15808.3 | 17967.2 | 18945.0 |
| 60° | 16311.2 | 16262.9 | 16494.0 | 16778.5 | 18139.9 | 18429.4 | 20136.2 | 18724.1 | 16359.4 | 18371.0 | 18688.5 |
| 62.5° | 18124.6 | 18119.6 | 18076.4 | 18686.0 | 20270.8 | 20537.5 | 21850.7 | 19569.8 | 16445.8 | 18068.8 | 17362.7 |
| 65° | 20725.5 | 20634.0 | 20258.1 | 20923.6 | 22922.5 | 23234.9 | 23636.2 | 20042.3 | 15925.1 | 16516.9 | 14619.6 |
| 67.5° | 23445.7 | 23440.6 | 23135.8 | 23999.4 | 26729.8 | 27052.3 | 25868.8 | 19938.1 | 14479.9 | 13380.1 | 10383.1 |
| 70° | 25701.1 | 25591.9 | 25980.5 | 28281.6 | 31593.7 | 31967.0 | 27821.9 | 18711.4 | 11533.6 | 8836.3 | 6169.4 |
| 72.5° | 26242.1 | 26247.2 | 27054.9 | 31583.5 | 36264.5 | 36322.9 | 28525.5 | 15165.7 | 7718.7 | 4874.0 | 3086.0 |
| 74° | 24576.0 | 24619.1 | 25871.3 | 31748.6 | 37135.7 | 36871.5 | 26727.2 | 11919.7 | 5219.5 | 3182.5 | 2224.9 |
| 75° | 22432.3 | 22160.5 | 23971.5 | 30648.8 | 36231.5 | 35947.0 | 24621.7 | 9565.2 | 3982.5 | 2542.4 | 1948.1 |
| 77.5° | 11993.3 | 12270.2 | 15064.1 | 22871.7 | 29434.8 | 29107.1 | 16694.7 | 4587.0 | 2151.3 | 1770.3 | 1402.0 |
| 80° | 4269.6 | 4709.0 | 6618.9 | 11968.0 | 18871.4 | 18973.0 | 7967.6 | 2103.0 | 1513.8 | 1305.5 | 990.6 |
| 82.5° | 1742.4 | 1790.6 | 2842.1 | 5310.9 | 9583.0 | 9674.4 | 3253.6 | 1249.6 | 1082.0 | 899.1 | 591.8 |
| 85° | 680.7 | 701.0 | 1257.2 | 2387.5 | 4089.2 | 4355.9 | 1125.2 | 660.4 | 665.5 | 515.6 | 302.2 |
| 87.5° | 228.6 | 259.1 | 515.6 | 795.0 | 1389.3 | 1361.4 | 327.6 | 195.6 | 238.7 | 223.5 | 94.0 |
| 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° | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 | 6999.9 |
| 2.5° | 7022.8 | 7071.0 | 7104.1 | 7139.6 | 7172.6 | 7182.8 | 7175.2 | 7198.0 | 7200.6 | 7203.1 | 7205.7 |
| 5° | 7063.4 | 7129.5 | 7193.0 | 7228.5 | 7243.8 | 7231.1 | 7187.9 | 7165.0 | 7144.7 | 7129.5 | 7134.5 |
| 7.5° | 7119.3 | 7213.3 | 7271.7 | 7286.9 | 7246.3 | 7187.9 | 7081.2 | 6997.4 | 6944.1 | 6908.5 | 6906.0 |
| 10° | 7205.7 | 7297.1 | 7345.4 | 7302.2 | 7190.4 | 7048.2 | 6880.6 | 6723.1 | 6603.7 | 6568.1 | 6565.6 |
| 12.5° | 7314.9 | 7419.0 | 7416.5 | 7289.5 | 7093.9 | 6839.9 | 6568.1 | 6385.3 | 6222.7 | 6141.4 | 6174.5 |
| 15° | 7457.1 | 7535.8 | 7462.2 | 7233.6 | 6923.7 | 6575.8 | 6240.5 | 5991.6 | 5808.7 | 5722.4 | 5727.4 |
| 17.5° | 7622.2 | 7690.8 | 7495.2 | 7134.5 | 6685.0 | 6238.0 | 5849.4 | 5613.2 | 5468.4 | 5404.9 | 5399.8 |
| 20° | 7827.9 | 7848.3 | 7495.2 | 6961.8 | 6377.7 | 5844.3 | 5473.5 | 5308.4 | 5227.1 | 5194.1 | 5204.2 |
| 22.5° | 8048.9 | 8008.3 | 7454.6 | 6718.0 | 5973.8 | 5432.8 | 5183.9 | 5110.3 | 5069.6 | 5064.5 | 5069.6 |
| 25° | 8297.8 | 8183.5 | 7370.8 | 6387.8 | 5552.2 | 5077.2 | 4932.5 | 4945.2 | 4952.8 | 4952.8 | 4970.6 |
| 27.5° | 8602.6 | 8374.0 | 7231.1 | 5971.3 | 5059.5 | 4747.0 | 4706.4 | 4795.3 | 4835.9 | 4843.6 | 4856.3 |
| 30° | 9003.9 | 8582.3 | 6999.9 | 5450.6 | 4640.4 | 4449.9 | 4521.0 | 4640.4 | 4686.1 | 4714.0 | 4709.0 |
| 32.5° | 9481.4 | 8810.9 | 6687.5 | 4929.9 | 4302.6 | 4241.6 | 4328.0 | 4449.9 | 4500.7 | 4515.9 | 4495.6 |
| 35° | 10042.7 | 9069.9 | 6276.1 | 4442.3 | 4007.9 | 4043.5 | 4145.1 | 4183.2 | 4228.9 | 4228.9 | 4239.1 |
| 37.5° | 10647.2 | 9278.2 | 5773.2 | 3995.2 | 3779.4 | 3908.9 | 3982.5 | 3947.0 | 3926.7 | 3901.3 | 3914.0 |
| 40° | 11261.9 | 9433.1 | 5120.4 | 3553.3 | 3550.8 | 3769.2 | 3789.5 | 3687.9 | 3606.6 | 3581.2 | 3568.5 |
| 42.5° | 11797.8 | 9529.7 | 4531.2 | 3210.4 | 3334.9 | 3632.0 | 3647.3 | 3484.7 | 3355.2 | 3279.0 | 3253.6 |
| 45° | 12430.2 | 9641.4 | 3954.6 | 2926.0 | 3134.2 | 3522.8 | 3560.9 | 3342.5 | 3152.0 | 2992.0 | 2951.3 |
| 47.5° | 13296.3 | 9895.4 | 3500.0 | 2705.0 | 2989.4 | 3454.2 | 3507.6 | 3225.7 | 2974.2 | 2765.9 | 2732.9 |
| 50° | 14274.2 | 10243.4 | 3146.9 | 2555.1 | 2877.7 | 3393.3 | 3459.3 | 3106.3 | 2809.1 | 2578.0 | 2552.6 |
| 52.5° | 15170.7 | 10431.3 | 2842.1 | 2420.5 | 2768.5 | 3281.5 | 3395.8 | 3019.9 | 2646.6 | 2390.0 | 2367.2 |
| 55° | 15660.9 | 10126.5 | 2542.4 | 2288.4 | 2618.6 | 3136.8 | 3306.9 | 2900.6 | 2489.1 | 2291.0 | 2258.0 |
| 57.5° | 15727.0 | 9496.6 | 2270.7 | 2146.2 | 2461.2 | 2959.0 | 3141.8 | 2755.8 | 2387.5 | 2222.4 | 2194.5 |
| 60° | 15216.5 | 8556.9 | 2059.8 | 2029.4 | 2301.1 | 2758.3 | 2956.4 | 2628.8 | 2283.4 | 2146.2 | 2118.3 |
| 62.5° | 13946.5 | 7535.8 | 1912.5 | 1922.7 | 2138.6 | 2547.5 | 2819.3 | 2506.9 | 2184.3 | 2062.4 | 2037.0 |
| 65° | 11762.2 | 6220.2 | 1770.3 | 1813.5 | 1993.8 | 2382.4 | 2694.8 | 2405.3 | 2085.2 | 1998.9 | 1976.0 |
| 67.5° | 8170.8 | 4490.5 | 1653.5 | 1699.2 | 1856.7 | 2214.8 | 2550.0 | 2296.1 | 1973.5 | 1927.8 | 1892.2 |
| 70° | 4523.5 | 2763.4 | 1516.3 | 1569.7 | 1714.4 | 2026.8 | 2387.5 | 2131.0 | 1810.9 | 1790.6 | 1739.8 |
| 72.5° | 2377.3 | 1760.1 | 1361.4 | 1419.8 | 1521.4 | 1785.5 | 2138.6 | 1950.6 | 1650.9 | 1564.6 | 1498.5 |
| 74° | 1856.7 | 1442.7 | 1257.2 | 1318.2 | 1386.8 | 1643.3 | 1991.3 | 1821.1 | 1536.6 | 1435.0 | 1384.2 |
| 75° | 1617.9 | 1285.2 | 1168.3 | 1247.1 | 1308.0 | 1546.8 | 1877.0 | 1729.7 | 1473.1 | 1376.6 | 1330.9 |
| 77.5° | 1142.9 | 962.6 | 955.0 | 1049.0 | 1082.0 | 1356.3 | 1691.6 | 1574.7 | 1313.1 | 1211.5 | 1168.3 |
| 80° | 802.6 | 721.3 | 756.9 | 815.3 | 861.0 | 1198.8 | 1569.7 | 1361.4 | 1076.9 | 957.5 | 942.3 |
| 82.5° | 523.2 | 472.4 | 541.0 | 594.3 | 609.6 | 883.9 | 1267.4 | 1033.7 | 784.8 | 637.5 | 591.8 |
| 85° | 241.3 | 236.2 | 309.9 | 302.2 | 299.7 | 431.8 | 751.8 | 604.5 | 452.1 | 337.8 | 317.5 |
| 87.5° | 61.0 | 58.4 | 76.2 | 63.5 | 76.2 | 66.0 | 68.6 | 17.8 | 2.5 | 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)