

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: P652501

Luminaire Tested: **GALN-SA7B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33037 lumens
Efficiency: N/A
Efficacy: 115.5 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

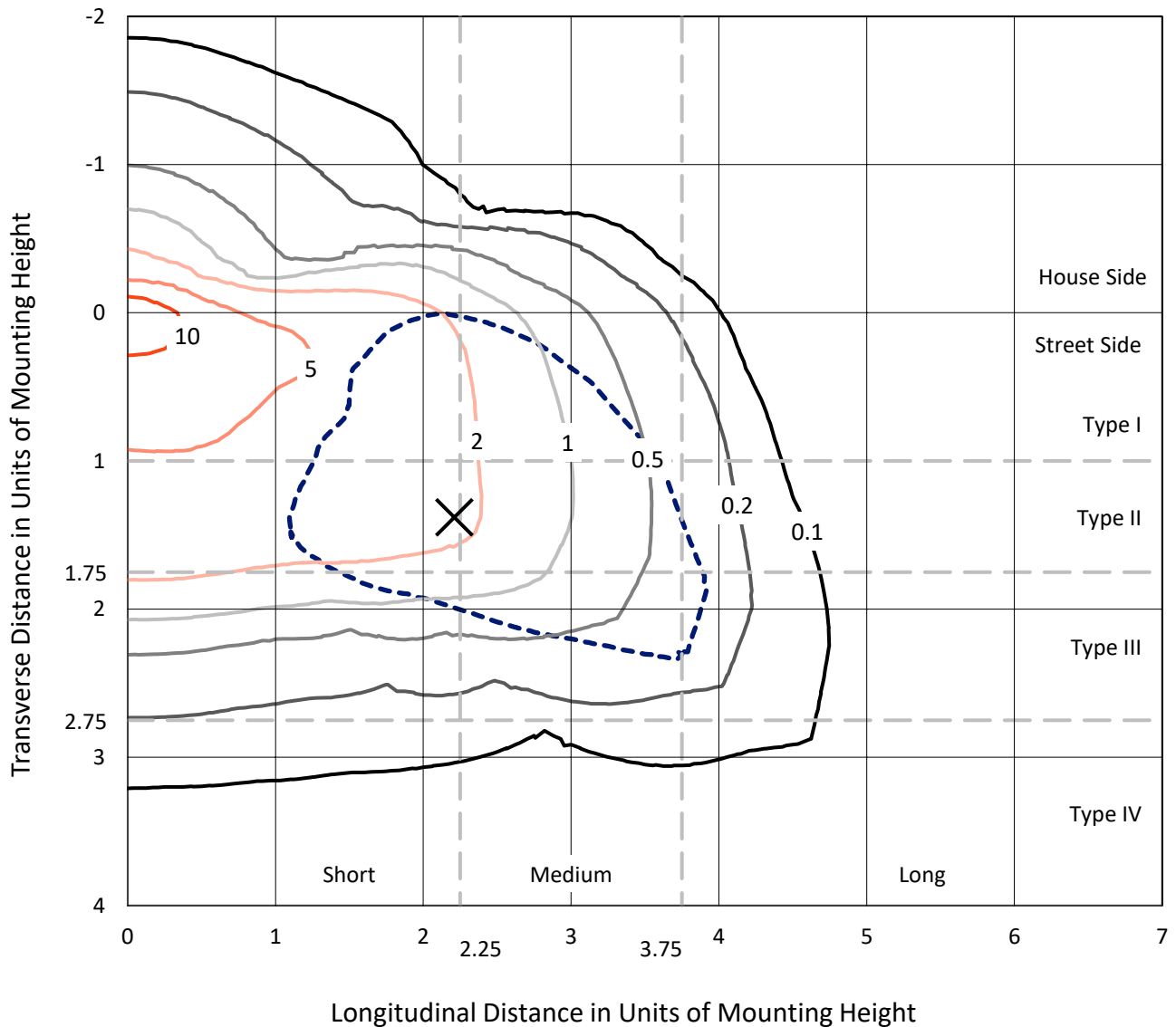
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

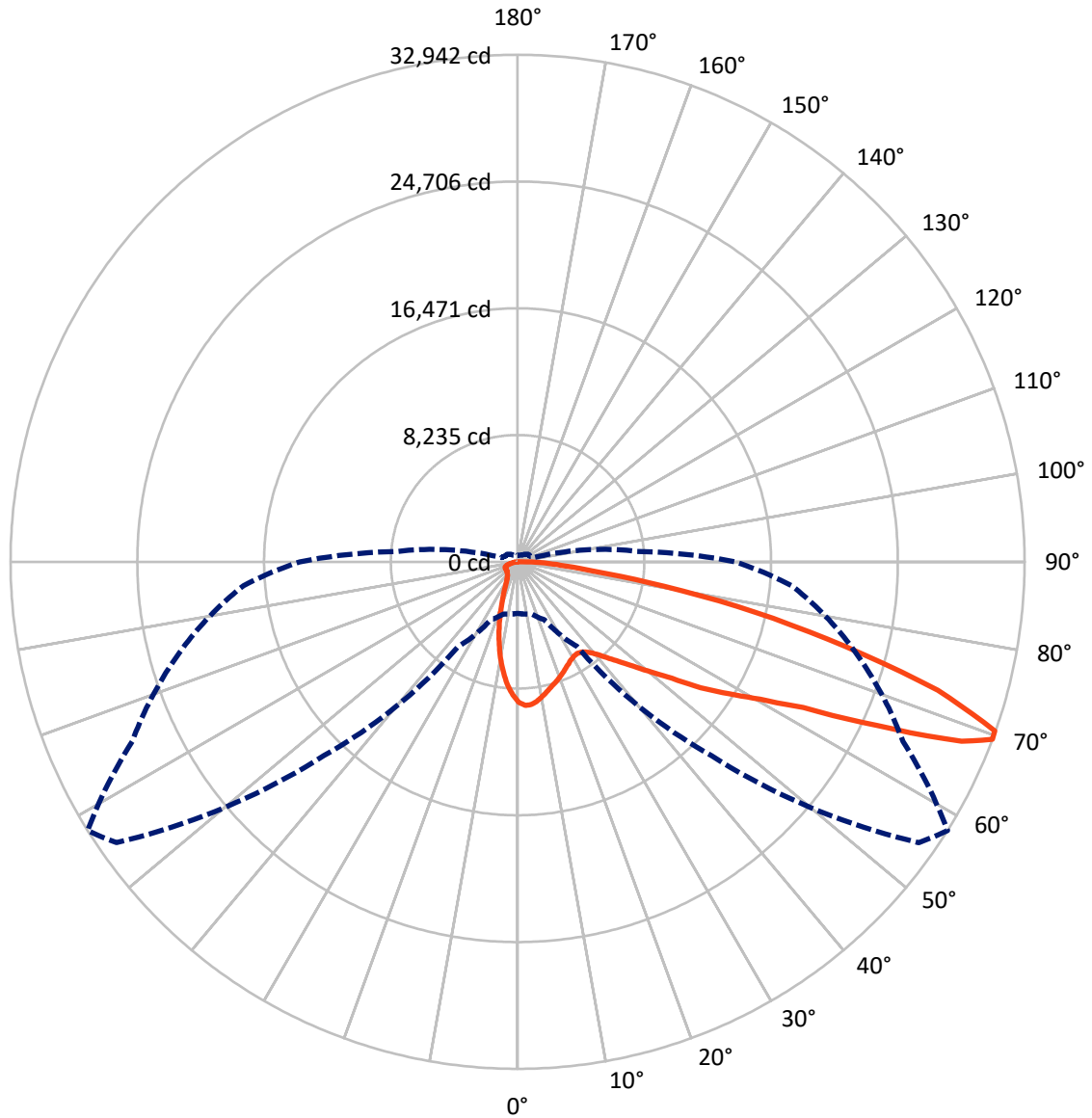
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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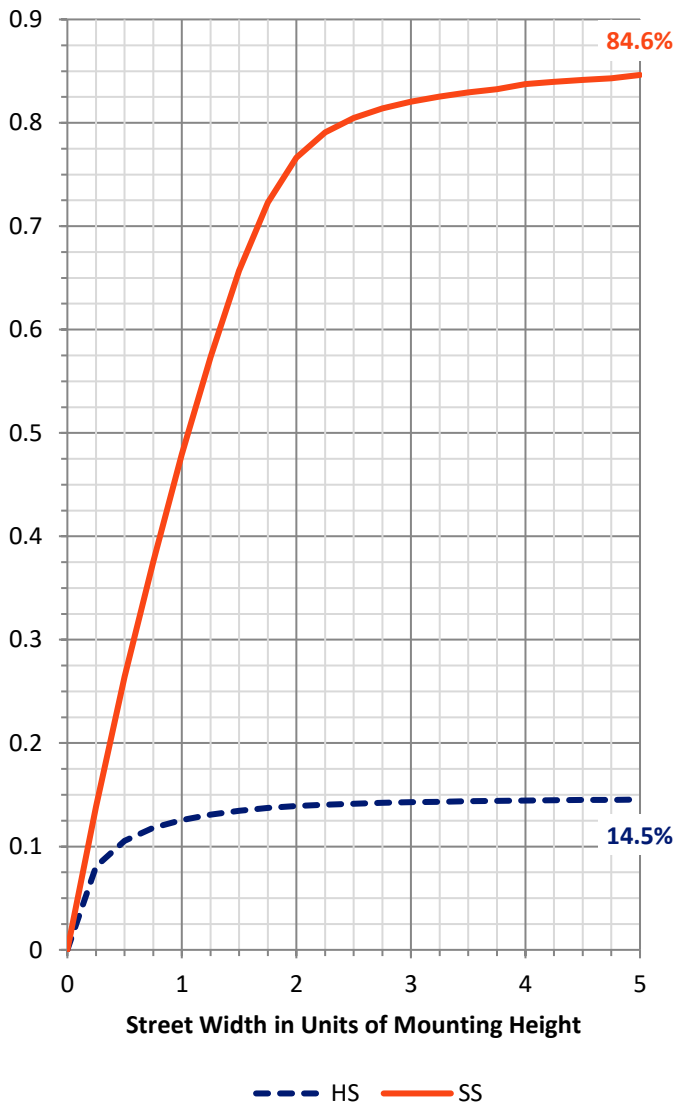
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4841.6 | 0.0 | 4841.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 28195.4 | 0.0 | 28195.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 33037.0 | 0.0 | 33037.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 775.3 | 2.3 |
| 10°-20° | 1702.5 | 5.2 |
| 20°-30° | 2199.6 | 6.7 |
| 30°-40° | 2856.9 | 8.6 |
| 40°-50° | 4153.5 | 12.6 |
| 50°-60° | 6627.6 | 20.1 |
| 60°-70° | 8853.6 | 26.8 |
| 70°-80° | 5103.7 | 15.4 |
| 80°-90° | 764.4 | 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° | 33037.0 | 100.0 |
| 0°-180° | 33037.0 | 100.0 |



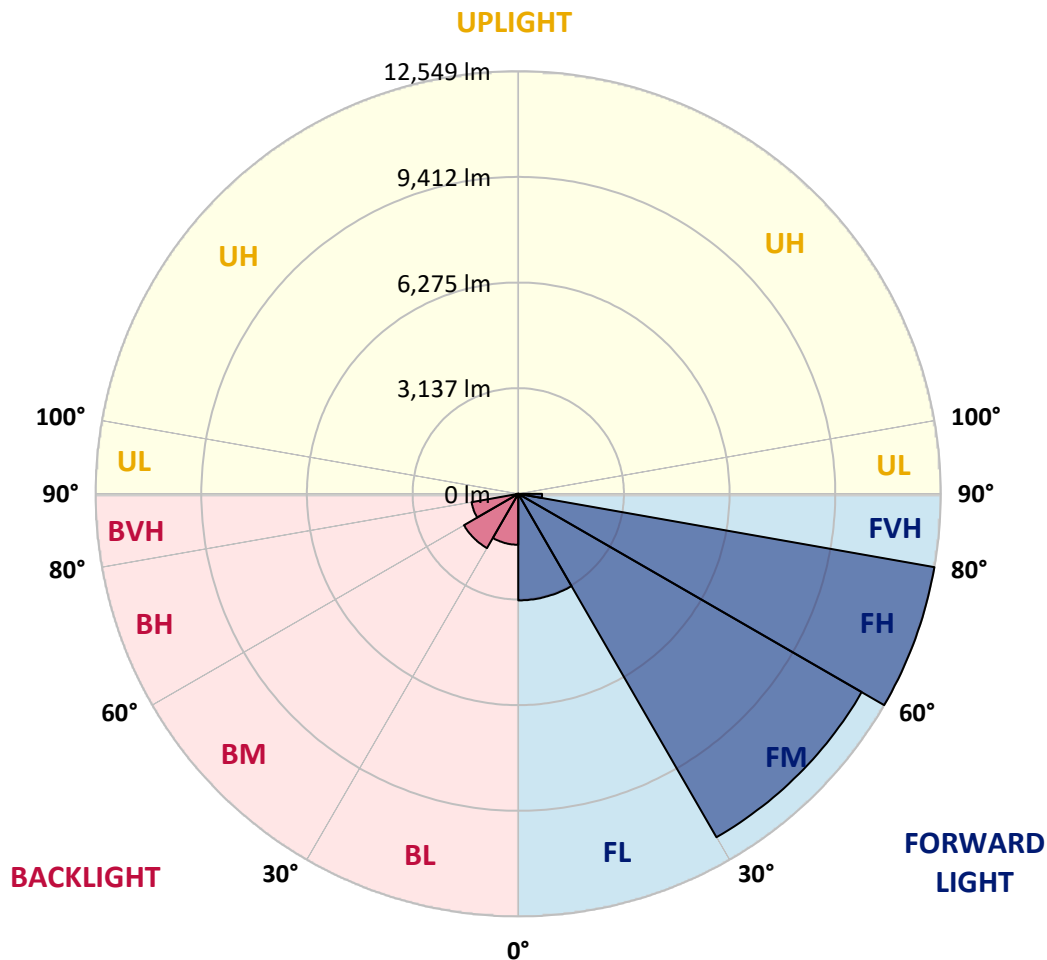
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 CATALOG NUMBER: GALN-SA7B-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3164.1 | 9.6 | | | |
| FM (30°-60°) | 11776.0 | 35.6 | | | |
| FH (60°-80°) | 12549.5 | 38.0 | | | G5 |
| FVH (80°-90°) | 705.9 | 2.1 | | | G4/750 |
| BL (0°-30°) | 1513.3 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1861.9 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1407.8 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 58.6 | 0.2 | | | G1/100 |
| 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° | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 |
| 2.5° | 9468.5 | 9494.3 | 9486.9 | 9477.7 | 9463.0 | 9422.5 | 9356.1 | 9345.0 | 9302.7 | 9212.4 | 9100.0 |
| 5° | 9323.0 | 9345.0 | 9346.9 | 9359.8 | 9378.2 | 9370.8 | 9323.0 | 9317.4 | 9254.8 | 9133.2 | 8945.2 |
| 7.5° | 8823.6 | 8853.1 | 8917.6 | 8989.4 | 9054.0 | 9114.8 | 9129.5 | 9138.7 | 9100.0 | 8960.0 | 8709.4 |
| 10° | 8261.6 | 8291.2 | 8320.7 | 8427.5 | 8585.9 | 8737.1 | 8862.4 | 8878.9 | 8888.1 | 8759.2 | 8453.3 |
| 12.5° | 7638.9 | 7699.7 | 7762.3 | 7920.8 | 8132.7 | 8370.4 | 8591.5 | 8626.5 | 8689.1 | 8591.5 | 8232.2 |
| 15° | 7110.2 | 7172.8 | 7263.0 | 7404.9 | 7661.0 | 8003.7 | 8315.1 | 8372.2 | 8495.7 | 8445.9 | 8025.8 |
| 17.5° | 6743.5 | 6765.6 | 6828.2 | 6990.4 | 7266.7 | 7627.9 | 8044.2 | 8158.5 | 8355.7 | 8342.7 | 7849.0 |
| 20° | 6454.2 | 6481.8 | 6520.5 | 6620.0 | 6907.5 | 7288.9 | 7791.9 | 7939.3 | 8206.4 | 8250.6 | 7674.0 |
| 22.5° | 6332.6 | 6352.9 | 6347.4 | 6400.8 | 6596.0 | 6979.3 | 7535.8 | 7710.8 | 8073.8 | 8188.0 | 7511.8 |
| 25° | 6340.0 | 6358.4 | 6330.8 | 6317.8 | 6433.9 | 6706.6 | 7268.6 | 7491.5 | 7966.9 | 8145.6 | 7364.4 |
| 27.5° | 6463.4 | 6476.3 | 6424.7 | 6373.2 | 6382.3 | 6537.1 | 7047.5 | 7294.4 | 7876.6 | 8164.0 | 7240.9 |
| 30° | 6629.3 | 6653.2 | 6620.0 | 6557.4 | 6489.2 | 6496.6 | 6905.6 | 7148.8 | 7834.3 | 8228.5 | 7182.0 |
| 32.5° | 6843.0 | 6865.1 | 6850.4 | 6800.6 | 6712.2 | 6614.5 | 6870.6 | 7095.4 | 7838.0 | 8359.4 | 7169.1 |
| 35° | 7067.8 | 7112.0 | 7136.0 | 7132.3 | 7060.4 | 6890.9 | 7008.8 | 7194.9 | 7926.3 | 8578.6 | 7244.6 |
| 37.5° | 7322.0 | 7358.8 | 7462.0 | 7528.4 | 7462.0 | 7264.9 | 7320.1 | 7449.2 | 8121.6 | 8895.5 | 7410.5 |
| 40° | 7568.9 | 7624.2 | 7775.3 | 7981.6 | 7955.9 | 7782.6 | 7795.6 | 7880.3 | 8466.2 | 9367.1 | 7734.8 |
| 42.5° | 7826.9 | 7893.2 | 8156.7 | 8462.5 | 8523.3 | 8388.8 | 8423.8 | 8499.4 | 8956.3 | 10021.3 | 8291.2 |
| 45° | 8158.5 | 8237.8 | 8562.0 | 8943.4 | 9183.0 | 9100.0 | 9199.5 | 9236.4 | 9612.2 | 10872.4 | 9024.4 |
| 47.5° | 8585.9 | 8678.1 | 9077.9 | 9553.3 | 9892.3 | 9967.8 | 10141.0 | 10118.9 | 10424.8 | 11880.3 | 9975.2 |
| 50° | 9306.3 | 9358.0 | 9735.7 | 10220.3 | 10686.4 | 11027.3 | 11215.2 | 11250.2 | 11432.6 | 12860.5 | 11038.3 |
| 52.5° | 10163.1 | 10209.2 | 10481.9 | 10905.7 | 11489.7 | 12212.0 | 12676.3 | 12562.0 | 12606.3 | 14054.5 | 12282.0 |
| 55° | 11126.8 | 11204.1 | 11377.3 | 11659.2 | 12416.4 | 13479.6 | 14411.9 | 14439.5 | 13949.4 | 15196.8 | 13474.1 |
| 57.5° | 11873.0 | 12003.8 | 12300.4 | 12702.0 | 13662.0 | 14889.1 | 16142.0 | 16160.4 | 15533.9 | 16416.5 | 14789.6 |
| 60° | 11497.1 | 11651.9 | 12329.9 | 13308.2 | 15296.3 | 17348.8 | 18209.2 | 18104.2 | 17076.1 | 17805.7 | 16394.4 |
| 62.5° | 9875.7 | 9903.4 | 10889.1 | 12418.3 | 15799.3 | 20639.5 | 21286.2 | 20842.2 | 19134.2 | 19567.1 | 18025.0 |
| 65° | 6391.6 | 6572.2 | 7353.4 | 9496.2 | 14146.5 | 22465.4 | 26677.3 | 25651.0 | 22019.5 | 21566.3 | 19390.3 |
| 67.5° | 4035.0 | 3988.9 | 4313.2 | 5422.4 | 9730.1 | 20856.9 | 31278.0 | 31115.8 | 25792.9 | 22828.4 | 19064.1 |
| 69° | 3345.9 | 3397.6 | 3508.1 | 4156.6 | 6695.5 | 17807.6 | 31821.5 | 32941.7 | 27622.5 | 22728.9 | 17879.4 |
| 70° | 3034.6 | 3058.5 | 3174.6 | 3684.9 | 5166.3 | 14914.9 | 30929.7 | 32891.9 | 28341.0 | 22312.5 | 17020.8 |
| 72.5° | 2408.1 | 2406.3 | 2605.2 | 3065.9 | 3861.9 | 8514.1 | 25396.8 | 28556.6 | 27537.7 | 20374.2 | 14063.6 |
| 75° | 1829.6 | 1859.0 | 2078.3 | 2594.2 | 3557.9 | 4652.2 | 17722.8 | 21991.8 | 21993.7 | 16092.2 | 8775.8 |
| 77.5° | 1319.2 | 1337.6 | 1593.8 | 2177.9 | 3351.5 | 3771.5 | 11804.8 | 15773.5 | 14828.3 | 7373.6 | 2758.2 |
| 80° | 864.1 | 875.1 | 1070.5 | 1724.6 | 3021.6 | 3557.9 | 6999.6 | 9654.6 | 6994.1 | 1956.8 | 912.1 |
| 82.5° | 473.5 | 528.8 | 654.0 | 1116.5 | 2424.7 | 3287.0 | 4254.3 | 4886.3 | 2623.7 | 871.5 | 475.3 |
| 85° | 237.7 | 252.4 | 368.5 | 652.3 | 1584.5 | 2719.5 | 2962.7 | 2802.4 | 1354.3 | 432.9 | 246.9 |
| 87.5° | 70.1 | 88.5 | 152.9 | 252.4 | 643.0 | 1416.8 | 1649.0 | 1479.5 | 521.4 | 156.6 | 51.6 |
| 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° | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 | 9129.5 |
| 2.5° | 9054.0 | 9020.8 | 8873.4 | 8740.8 | 8619.2 | 8490.1 | 8381.4 | 8285.6 | 8294.9 | 8296.7 | 8199.1 |
| 5° | 8847.6 | 8772.1 | 8492.0 | 8230.4 | 8009.3 | 7729.2 | 7489.7 | 7334.9 | 7257.5 | 7154.4 | 7191.2 |
| 7.5° | 8567.5 | 8421.9 | 8033.2 | 7598.4 | 7191.2 | 6828.2 | 6433.9 | 6163.1 | 5989.9 | 5822.2 | 5844.4 |
| 10° | 8278.3 | 8044.2 | 7478.6 | 6903.8 | 6376.8 | 5796.4 | 5293.4 | 4862.3 | 4541.7 | 4422.0 | 4342.8 |
| 12.5° | 7981.6 | 7674.0 | 6955.4 | 6190.8 | 5463.0 | 4768.3 | 4055.3 | 3592.8 | 3239.1 | 3051.1 | 3075.1 |
| 15° | 7710.8 | 7336.8 | 6410.0 | 5477.7 | 4532.5 | 3705.2 | 2994.0 | 2553.7 | 2306.8 | 2255.2 | 2284.7 |
| 17.5° | 7460.2 | 6970.1 | 5899.6 | 4785.0 | 3681.3 | 2778.5 | 2249.7 | 2000.9 | 1901.4 | 1873.8 | 1872.0 |
| 20° | 7202.2 | 6658.7 | 5326.6 | 4044.3 | 2868.7 | 2153.9 | 1846.2 | 1730.1 | 1711.7 | 1722.7 | 1724.6 |
| 22.5° | 6940.6 | 6273.6 | 4737.0 | 3309.1 | 2284.7 | 1761.4 | 1614.0 | 1582.7 | 1597.4 | 1623.2 | 1626.9 |
| 25° | 6699.2 | 5934.6 | 4169.5 | 2664.2 | 1824.0 | 1547.7 | 1475.8 | 1475.8 | 1509.0 | 1547.7 | 1549.5 |
| 27.5° | 6500.3 | 5606.7 | 3603.9 | 2115.2 | 1527.4 | 1392.9 | 1369.0 | 1381.8 | 1427.9 | 1457.4 | 1459.2 |
| 30° | 6336.3 | 5300.8 | 3069.6 | 1695.1 | 1343.2 | 1269.5 | 1263.9 | 1286.1 | 1319.2 | 1346.9 | 1348.7 |
| 32.5° | 6212.9 | 5031.8 | 2570.3 | 1424.2 | 1216.0 | 1175.5 | 1173.7 | 1190.3 | 1208.7 | 1216.0 | 1223.4 |
| 35° | 6165.0 | 4808.8 | 2113.3 | 1252.9 | 1131.3 | 1105.5 | 1105.5 | 1103.6 | 1111.0 | 1114.7 | 1118.4 |
| 37.5° | 6203.6 | 4637.5 | 1759.5 | 1142.3 | 1068.7 | 1050.2 | 1039.1 | 1028.1 | 1024.4 | 1024.4 | 1026.3 |
| 40° | 6367.6 | 4547.2 | 1496.1 | 1070.5 | 1024.4 | 996.8 | 976.5 | 963.6 | 950.8 | 954.4 | 958.1 |
| 42.5° | 6715.8 | 4563.9 | 1317.3 | 1022.6 | 985.7 | 947.1 | 917.5 | 902.8 | 893.6 | 904.7 | 902.8 |
| 45° | 7270.4 | 4729.6 | 1203.1 | 989.4 | 947.1 | 897.3 | 869.7 | 854.9 | 854.9 | 871.5 | 877.0 |
| 47.5° | 8046.1 | 5046.6 | 1142.3 | 963.6 | 917.5 | 858.6 | 831.0 | 819.9 | 823.6 | 851.3 | 853.1 |
| 50° | 8993.1 | 5597.4 | 1131.3 | 950.8 | 902.8 | 831.0 | 799.6 | 788.6 | 797.8 | 827.3 | 831.0 |
| 52.5° | 10037.8 | 6306.8 | 1184.7 | 952.6 | 889.9 | 814.3 | 773.8 | 757.2 | 766.5 | 790.5 | 797.8 |
| 55° | 11276.0 | 7194.9 | 1322.9 | 959.9 | 871.5 | 805.2 | 755.4 | 718.6 | 729.7 | 746.2 | 748.1 |
| 57.5° | 12539.9 | 8315.1 | 1566.1 | 961.8 | 856.7 | 788.6 | 724.1 | 676.2 | 676.2 | 687.3 | 692.7 |
| 60° | 14083.9 | 9534.8 | 1886.7 | 963.6 | 858.6 | 764.6 | 681.7 | 628.3 | 620.9 | 626.5 | 628.3 |
| 62.5° | 15616.9 | 10555.6 | 1940.1 | 958.1 | 877.0 | 740.7 | 635.6 | 580.4 | 567.5 | 565.7 | 562.0 |
| 65° | 16293.0 | 10365.8 | 1590.1 | 932.3 | 897.3 | 726.0 | 598.8 | 534.3 | 512.2 | 504.9 | 504.9 |
| 67.5° | 15191.2 | 8768.4 | 1195.7 | 897.3 | 884.4 | 711.2 | 563.8 | 495.6 | 469.9 | 455.1 | 455.1 |
| 69° | 14155.8 | 7799.2 | 1074.1 | 873.3 | 851.3 | 687.3 | 541.7 | 475.3 | 444.0 | 427.5 | 421.9 |
| 70° | 13356.2 | 7132.3 | 1022.6 | 853.1 | 819.9 | 659.6 | 525.1 | 460.6 | 425.6 | 407.2 | 403.5 |
| 72.5° | 10658.7 | 5595.6 | 895.4 | 775.7 | 698.3 | 554.6 | 466.2 | 414.5 | 381.4 | 361.1 | 355.6 |
| 75° | 6142.8 | 3032.7 | 742.5 | 674.3 | 562.0 | 431.2 | 394.3 | 361.1 | 335.3 | 316.9 | 311.3 |
| 77.5° | 1890.4 | 1171.8 | 538.0 | 532.4 | 412.7 | 333.5 | 315.0 | 302.2 | 283.8 | 263.5 | 259.8 |
| 80° | 795.9 | 596.9 | 364.8 | 359.3 | 274.5 | 232.1 | 226.6 | 224.8 | 217.4 | 200.8 | 195.3 |
| 82.5° | 436.6 | 337.2 | 254.2 | 221.1 | 165.8 | 134.5 | 140.0 | 141.9 | 136.3 | 119.8 | 108.7 |
| 85° | 213.7 | 184.3 | 123.5 | 99.5 | 75.5 | 47.9 | 46.1 | 55.3 | 51.6 | 36.8 | 40.5 |
| 87.5° | 42.4 | 51.6 | 33.1 | 14.7 | 7.4 | 0.0 | 0.0 | 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)