

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: P942504

Luminaire Tested: **GALN-SB6C-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35085 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

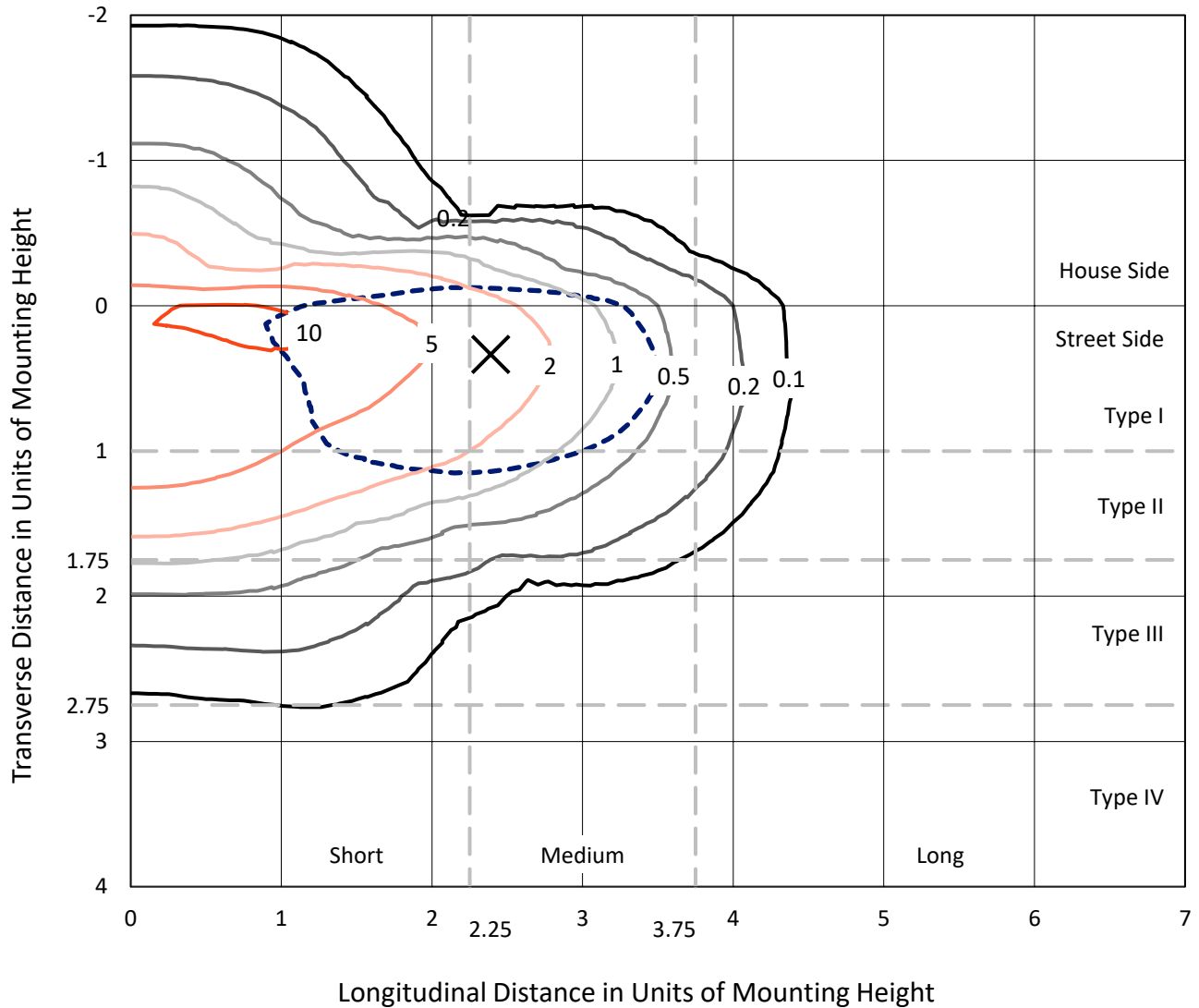
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

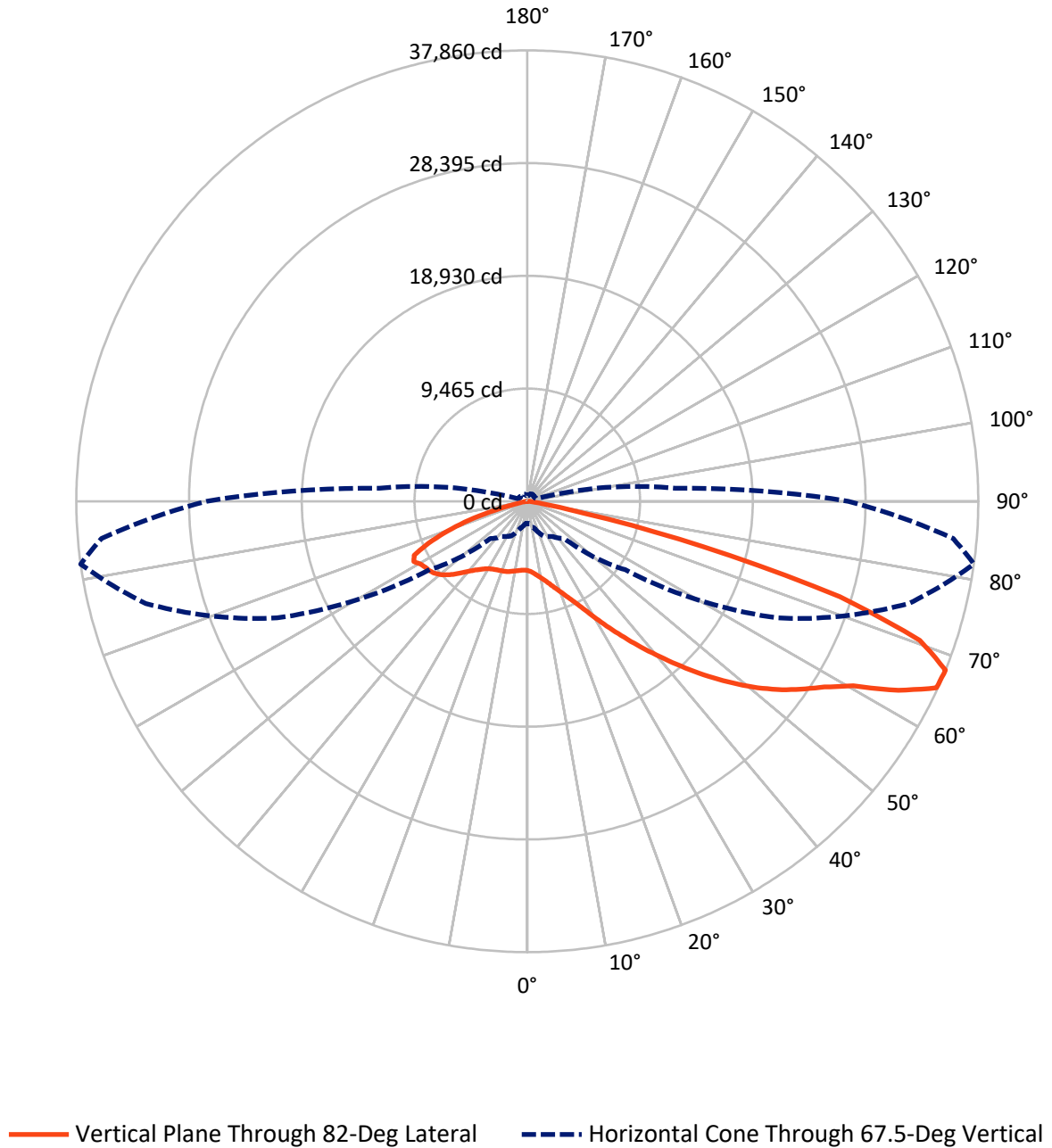
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6355.3 | 0.0 | 6355.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 28729.7 | 0.0 | 28729.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 35085.0 | 0.0 | 35085.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 517.8 | 1.5 |
| 10°-20° | 1345.7 | 3.8 |
| 20°-30° | 2155.3 | 6.1 |
| 30°-40° | 3811.3 | 10.9 |
| 40°-50° | 6677.7 | 19.0 |
| 50°-60° | 8906.2 | 25.4 |
| 60°-70° | 8291.2 | 23.6 |
| 70°-80° | 3182.2 | 9.1 |
| 80°-90° | 197.6 | 0.6 |
| 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° | 35085.0 | 100.0 |
| 0°-180° | 35085.0 | 100.0 |

Coefficient of Utilization



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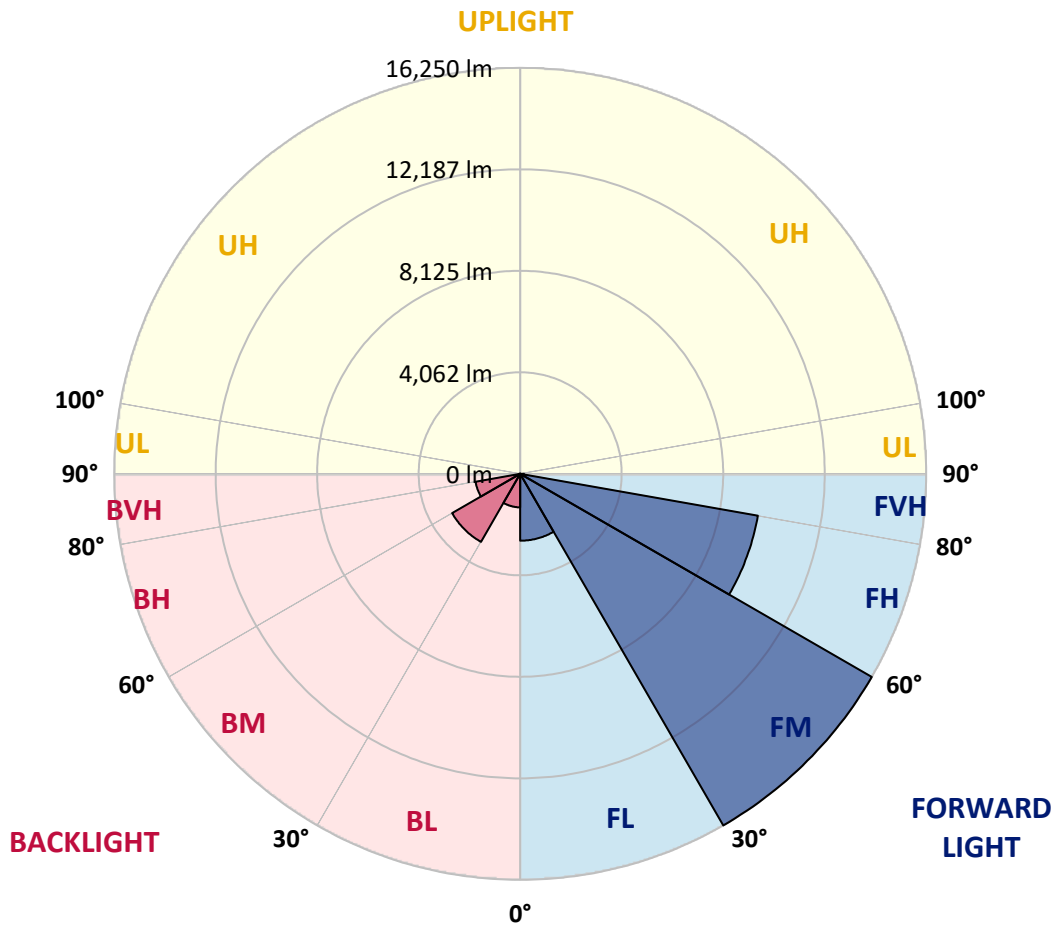
CATALOG NUMBER: GALN-SB6C-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2676.6 | 7.6 | | | |
| FM (30°-60°) | 16249.9 | 46.3 | | | |
| FH (60°-80°) | 9659.4 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 143.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1342.2 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3145.2 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1813.9 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 54.0 | 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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 |
| 2.5° | 6143.3 | 6178.7 | 6158.5 | 6148.4 | 6130.7 | 6105.4 | 6085.2 | 6022.1 | 5956.4 | 5913.4 |
| 5° | 6267.1 | 6302.4 | 6299.9 | 6310.0 | 6322.7 | 6330.2 | 6325.2 | 6254.5 | 6161.0 | 6087.7 |
| 7.5° | 6161.0 | 6201.4 | 6234.2 | 6284.8 | 6373.2 | 6466.6 | 6512.1 | 6497.0 | 6401.0 | 6299.9 |
| 10° | 5860.4 | 5903.3 | 5981.6 | 6100.4 | 6287.3 | 6489.4 | 6658.6 | 6736.9 | 6676.3 | 6565.2 |
| 12.5° | 5309.7 | 5352.7 | 5506.7 | 5764.4 | 6077.6 | 6428.7 | 6752.1 | 6961.7 | 6976.9 | 6865.8 |
| 15° | 4690.8 | 4733.8 | 4898.0 | 5221.3 | 5698.7 | 6262.0 | 6802.6 | 7199.2 | 7333.1 | 7237.1 |
| 17.5° | 4306.9 | 4344.8 | 4468.5 | 4728.7 | 5226.4 | 5928.6 | 6784.9 | 7451.8 | 7757.4 | 7681.7 |
| 20° | 4190.7 | 4223.5 | 4281.6 | 4463.5 | 4877.8 | 5582.5 | 6668.7 | 7689.2 | 8214.7 | 8171.7 |
| 22.5° | 4314.5 | 4344.8 | 4362.5 | 4443.3 | 4703.5 | 5355.2 | 6522.2 | 7931.7 | 8745.1 | 8750.2 |
| 25° | 4599.9 | 4630.2 | 4610.0 | 4660.5 | 4774.2 | 5284.5 | 6466.6 | 8217.2 | 9412.0 | 9467.6 |
| 27.5° | 5069.7 | 5072.3 | 5024.3 | 5021.7 | 5039.4 | 5390.6 | 6524.7 | 8522.8 | 10253.2 | 10356.7 |
| 30° | 6012.0 | 5974.1 | 5789.7 | 5590.1 | 5499.2 | 5708.8 | 6686.4 | 8884.1 | 11245.9 | 11430.3 |
| 32.5° | 7464.4 | 7408.8 | 7070.4 | 6592.9 | 6113.0 | 6221.6 | 6976.9 | 9295.8 | 12327.0 | 12660.5 |
| 35° | 9040.7 | 9025.5 | 8671.9 | 7962.0 | 7123.4 | 6951.6 | 7449.3 | 9836.4 | 13506.7 | 14037.2 |
| 37.5° | 10505.8 | 10498.2 | 10296.1 | 9460.0 | 8439.5 | 7969.6 | 8207.1 | 10543.7 | 14769.7 | 15537.6 |
| 40° | 11844.6 | 11867.3 | 11665.2 | 10917.5 | 9889.4 | 9275.6 | 9237.7 | 11417.7 | 16174.2 | 17172.0 |
| 42.5° | 13001.5 | 13026.7 | 12822.1 | 12268.9 | 11321.7 | 10720.5 | 10503.2 | 12488.7 | 17545.8 | 18927.5 |
| 45° | 13787.1 | 13943.7 | 13913.4 | 13471.3 | 12791.8 | 12167.9 | 12023.9 | 13832.5 | 19109.4 | 20789.2 |
| 47.5° | 14009.4 | 14153.4 | 14380.7 | 14441.3 | 14027.0 | 13413.2 | 13585.0 | 15451.7 | 20690.7 | 22653.4 |
| 50° | 13461.2 | 13595.1 | 14067.5 | 14696.4 | 14984.4 | 14795.0 | 15103.1 | 17187.1 | 22309.9 | 24512.6 |
| 52.5° | 12380.1 | 12516.5 | 13112.6 | 14107.9 | 15282.5 | 15878.6 | 16626.3 | 18897.2 | 23878.6 | 26273.2 |
| 55° | 10816.5 | 10960.4 | 11725.8 | 12852.4 | 14714.1 | 16325.7 | 17896.9 | 20604.8 | 25315.9 | 27857.1 |
| 57.5° | 8689.5 | 8795.6 | 9591.3 | 11167.6 | 13284.4 | 15881.2 | 18834.1 | 22469.0 | 26669.8 | 29413.1 |
| 60° | 5663.4 | 5756.8 | 6681.4 | 8439.5 | 10915.0 | 14395.9 | 19021.0 | 24548.0 | 28468.4 | 31436.5 |
| 62.5° | 3766.3 | 3829.5 | 4377.6 | 5668.4 | 7686.7 | 11544.0 | 17927.2 | 26207.6 | 31105.5 | 34957.7 |
| 65° | 2584.1 | 2647.3 | 3195.4 | 4094.7 | 4966.2 | 7636.2 | 14782.3 | 25987.8 | 33495.2 | 37754.1 |
| 67.5° | 1844.0 | 1897.0 | 2361.8 | 3210.6 | 3594.5 | 4435.7 | 10020.8 | 23178.9 | 33151.6 | 37860.2 |
| 70° | 1321.1 | 1351.4 | 1735.4 | 2500.8 | 2856.9 | 2665.0 | 5572.4 | 17727.7 | 29026.6 | 34960.3 |
| 72.5° | 924.5 | 934.6 | 1204.9 | 1904.6 | 2301.2 | 1945.0 | 2652.3 | 11819.3 | 21953.7 | 27440.3 |
| 75° | 626.5 | 639.1 | 810.9 | 1396.9 | 1846.5 | 1485.3 | 1404.5 | 6337.8 | 12887.8 | 15189.0 |
| 77.5° | 384.0 | 389.0 | 522.9 | 954.8 | 1381.7 | 1131.7 | 904.3 | 2685.2 | 4986.4 | 4895.4 |
| 80° | 217.2 | 217.2 | 333.4 | 593.6 | 942.2 | 730.0 | 634.0 | 1141.8 | 1578.8 | 1386.8 |
| 82.5° | 121.2 | 123.8 | 242.5 | 368.8 | 623.9 | 432.0 | 348.6 | 527.9 | 682.0 | 603.7 |
| 85° | 50.5 | 55.6 | 149.0 | 174.3 | 298.1 | 214.7 | 141.5 | 222.3 | 252.6 | 224.8 |
| 87.5° | 5.1 | 7.6 | 45.5 | 32.8 | 35.4 | 42.9 | 20.2 | 42.9 | 35.4 | 35.4 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5812.4 | 0° | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 | 5812.4 |
| 5898.3 | 2.5° | 5850.3 | 5812.4 | 5716.4 | 5605.3 | 5458.8 | 5388.0 | 5292.0 | 5226.4 | 5170.8 | 5175.8 |
| 6044.8 | 5° | 5964.0 | 5868.0 | 5653.3 | 5385.5 | 5052.1 | 4814.6 | 4562.0 | 4387.7 | 4246.3 | 4215.9 |
| 6246.9 | 7.5° | 6120.6 | 5969.0 | 5592.6 | 5110.2 | 4546.9 | 4120.0 | 3738.5 | 3493.5 | 3319.2 | 3263.6 |
| 6491.9 | 10° | 6322.7 | 6102.9 | 5514.3 | 4764.1 | 3953.2 | 3410.1 | 3000.9 | 2808.9 | 2690.2 | 2649.8 |
| 6779.9 | 12.5° | 6557.6 | 6257.0 | 5410.8 | 4342.2 | 3341.9 | 2819.1 | 2558.9 | 2462.9 | 2425.0 | 2412.4 |
| 7133.5 | 15° | 6853.1 | 6449.0 | 5254.1 | 3842.1 | 2824.1 | 2457.8 | 2346.7 | 2334.1 | 2339.1 | 2334.1 |
| 7557.9 | 17.5° | 7204.2 | 6658.6 | 4999.0 | 3326.8 | 2475.5 | 2273.4 | 2233.0 | 2243.1 | 2255.7 | 2253.2 |
| 8032.8 | 20° | 7588.2 | 6865.8 | 4673.2 | 2869.6 | 2238.1 | 2142.1 | 2119.3 | 2129.4 | 2139.5 | 2134.5 |
| 8580.9 | 22.5° | 8025.2 | 7088.0 | 4311.9 | 2513.4 | 2078.9 | 2020.8 | 1995.6 | 1998.1 | 1998.1 | 1988.0 |
| 9275.6 | 25° | 8548.1 | 7333.1 | 3933.0 | 2260.8 | 1957.7 | 1912.2 | 1881.9 | 1871.8 | 1856.6 | 1826.3 |
| 10119.3 | 27.5° | 9172.0 | 7593.2 | 3569.3 | 2084.0 | 1861.7 | 1818.7 | 1783.4 | 1758.1 | 1720.2 | 1669.7 |
| 11132.2 | 30° | 9874.3 | 7909.0 | 3261.1 | 1972.8 | 1785.9 | 1743.0 | 1702.5 | 1664.7 | 1609.1 | 1545.9 |
| 12296.7 | 32.5° | 10700.3 | 8247.5 | 3036.3 | 1899.6 | 1717.7 | 1672.2 | 1624.2 | 1578.8 | 1518.1 | 1455.0 |
| 13605.2 | 35° | 11685.4 | 8656.7 | 2904.9 | 1849.1 | 1664.7 | 1604.0 | 1551.0 | 1500.5 | 1455.0 | 1399.4 |
| 15027.4 | 37.5° | 12753.9 | 9091.2 | 2864.5 | 1823.8 | 1629.3 | 1535.8 | 1475.2 | 1439.8 | 1434.8 | 1401.9 |
| 16565.7 | 40° | 13923.5 | 9606.5 | 2894.8 | 1808.6 | 1591.4 | 1470.2 | 1404.5 | 1396.9 | 1409.5 | 1351.4 |
| 18210.2 | 42.5° | 15161.2 | 10217.8 | 2945.4 | 1791.0 | 1538.4 | 1404.5 | 1341.3 | 1341.3 | 1331.2 | 1250.4 |
| 19948.1 | 45° | 16500.0 | 10922.6 | 2995.9 | 1748.0 | 1475.2 | 1338.8 | 1290.8 | 1273.1 | 1230.2 | 1151.9 |
| 21696.1 | 47.5° | 17848.9 | 11640.0 | 3033.8 | 1669.7 | 1399.4 | 1283.2 | 1240.3 | 1199.9 | 1136.7 | 1066.0 |
| 23411.3 | 50° | 19129.6 | 12284.1 | 2993.3 | 1553.5 | 1313.5 | 1230.2 | 1184.7 | 1129.1 | 1060.9 | 1012.9 |
| 25035.5 | 52.5° | 20273.9 | 12842.3 | 2821.6 | 1417.1 | 1222.6 | 1174.6 | 1134.2 | 1076.1 | 1020.5 | 970.0 |
| 26500.6 | 55° | 21269.2 | 13294.5 | 2518.5 | 1288.3 | 1141.8 | 1126.6 | 1086.2 | 1012.9 | 937.2 | 894.2 |
| 27953.1 | 57.5° | 22224.0 | 13638.0 | 2139.5 | 1182.2 | 1068.5 | 1073.6 | 1012.9 | 947.3 | 876.5 | 831.1 |
| 29910.7 | 60° | 23494.6 | 14097.8 | 1755.6 | 1083.7 | 990.2 | 1005.4 | 939.7 | 891.7 | 803.3 | 745.2 |
| 33267.8 | 62.5° | 25525.5 | 14812.6 | 1394.4 | 962.4 | 899.3 | 904.3 | 876.5 | 818.4 | 712.3 | 644.1 |
| 35756.0 | 65° | 27137.2 | 14549.9 | 1098.8 | 831.1 | 795.7 | 803.3 | 803.3 | 740.1 | 626.5 | 548.1 |
| 35889.8 | 67.5° | 26955.3 | 12458.4 | 876.5 | 702.2 | 697.2 | 702.2 | 719.9 | 666.9 | 555.7 | 492.6 |
| 33156.7 | 70° | 24830.9 | 9909.6 | 702.2 | 583.5 | 606.2 | 593.6 | 644.1 | 608.8 | 500.2 | 437.0 |
| 25704.9 | 72.5° | 20261.3 | 7138.6 | 535.5 | 482.5 | 464.8 | 485.0 | 581.0 | 548.1 | 416.8 | 346.1 |
| 13615.3 | 75° | 11839.5 | 3809.3 | 399.1 | 381.4 | 336.0 | 404.2 | 515.3 | 467.3 | 318.3 | 255.1 |
| 4173.0 | 77.5° | 3854.7 | 1328.7 | 293.0 | 280.4 | 250.1 | 325.9 | 439.5 | 394.1 | 260.2 | 202.1 |
| 1222.6 | 80° | 1033.1 | 401.6 | 199.6 | 184.4 | 161.7 | 242.5 | 348.6 | 313.2 | 186.9 | 131.4 |
| 525.4 | 82.5° | 414.3 | 169.2 | 116.2 | 103.6 | 88.4 | 166.7 | 275.3 | 252.6 | 138.9 | 83.4 |
| 164.2 | 85° | 133.9 | 55.6 | 42.9 | 32.8 | 40.4 | 103.6 | 164.2 | 171.8 | 98.5 | 42.9 |
| 25.3 | 87.5° | 17.7 | 7.6 | 7.6 | 10.1 | 7.6 | 17.7 | 50.5 | 48.0 | 27.8 | 5.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 5812.4 |
| 5125.3 |
| 4147.7 |
| 3208.1 |
| 2619.5 |
| 2404.8 |
| 2331.5 |
| 2248.2 |
| 2132.0 |
| 1982.9 |
| 1821.3 |
| 1664.7 |
| 1540.9 |
| 1457.5 |
| 1394.4 |
| 1399.4 |
| 1354.0 |
| 1250.4 |
| 1149.3 |
| 1063.5 |
| 1005.4 |
| 964.9 |
| 889.2 |
| 826.0 |
| 737.6 |
| 639.1 |
| 540.6 |
| 482.5 |
| 429.4 |
| 338.5 |
| 247.6 |
| 194.5 |
| 128.8 |
| 83.4 |
| 32.8 |
| 0.0 |
| 0.0 |

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