

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: P942615

Luminaire Tested: **GALN-SB6C-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31303 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

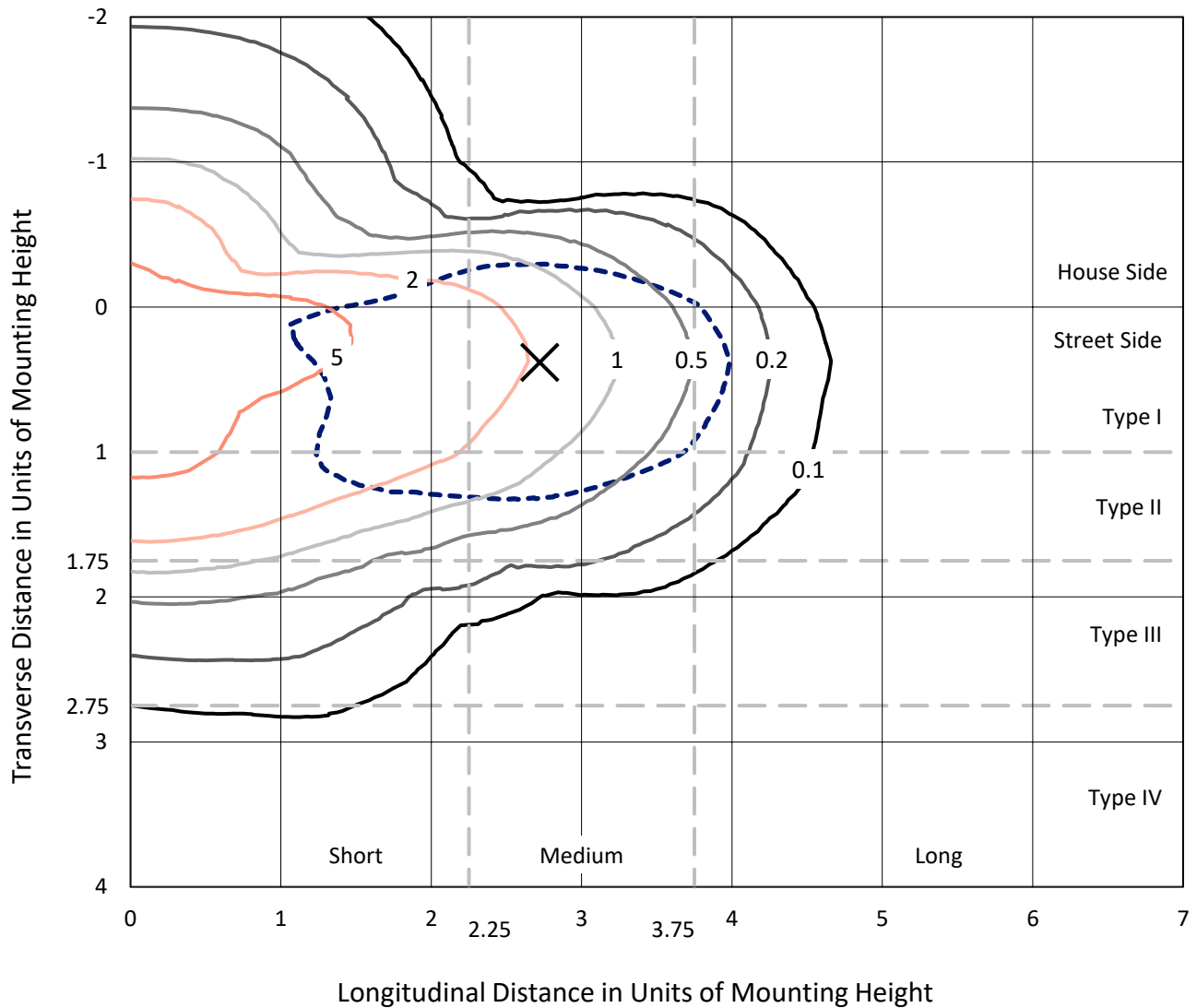
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

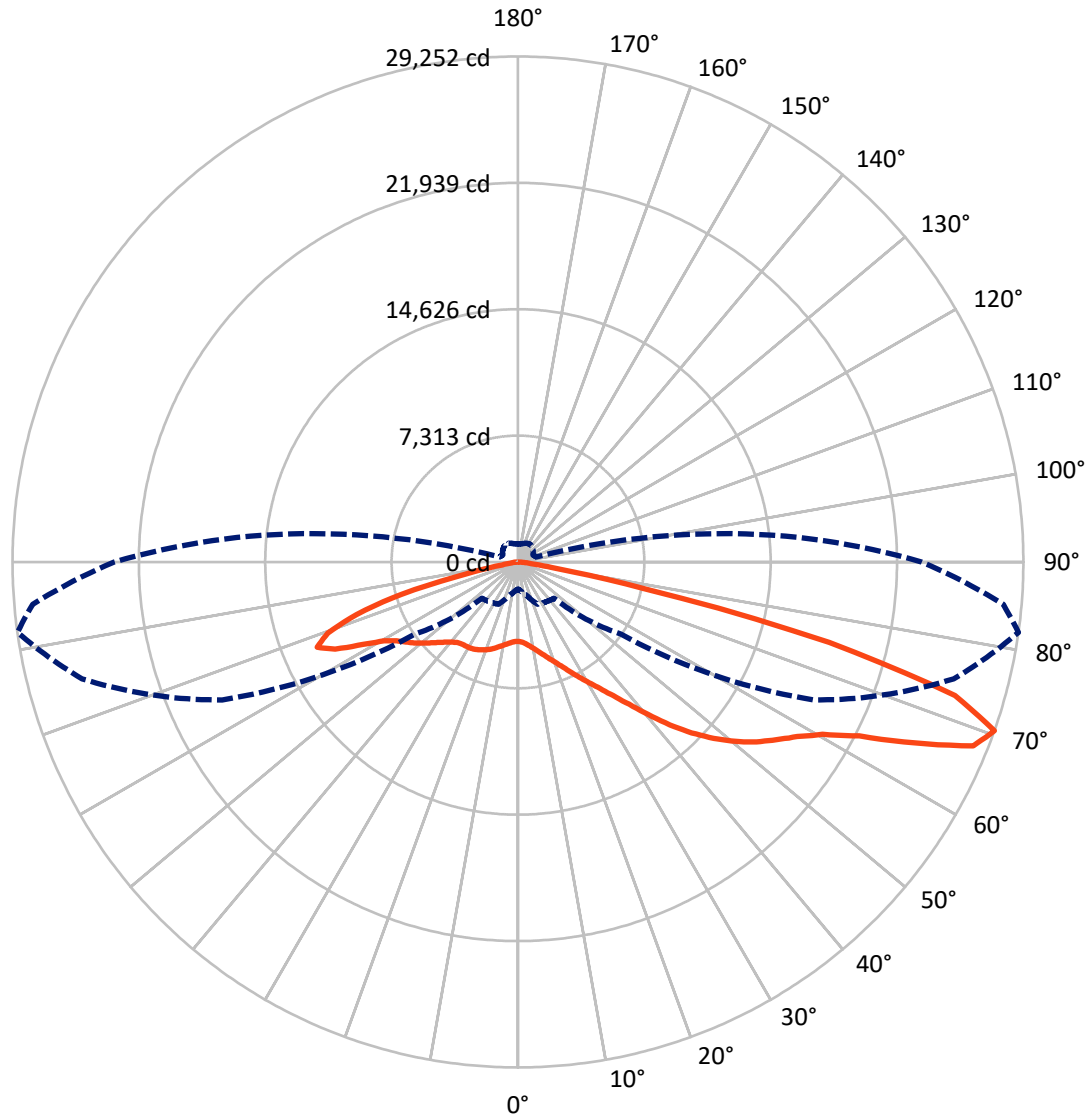
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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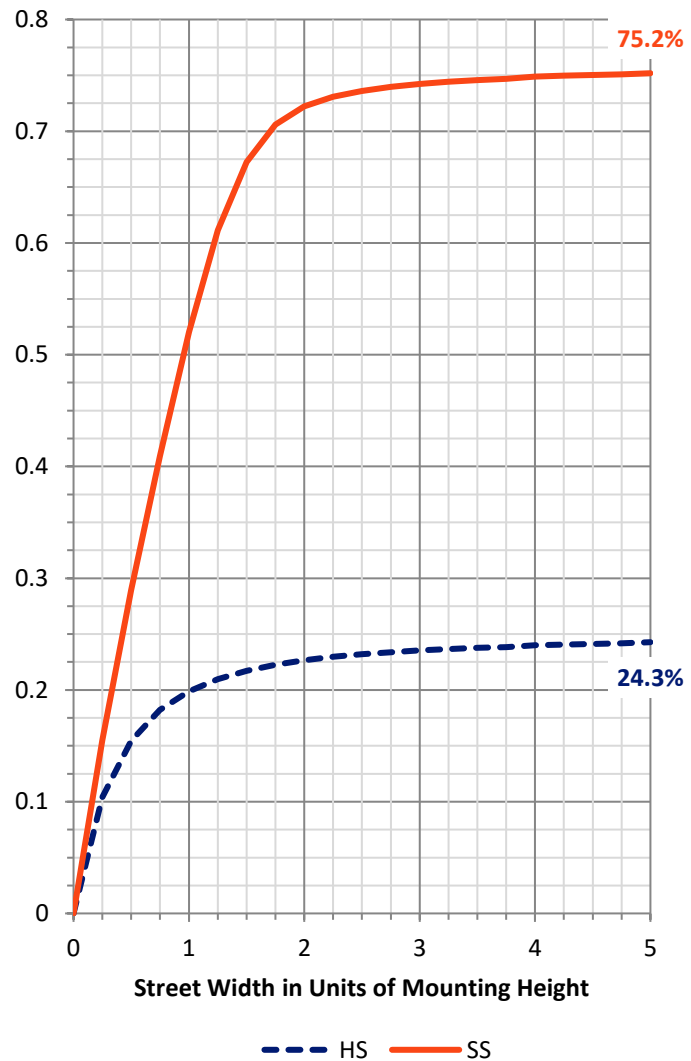
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7717.0 | 0.0 | 7717.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 23586.0 | 0.0 | 23586.0 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 31303.0 | 0.0 | 31303.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 433.3 | 1.4 |
| 10°-20° | 1245.0 | 4.0 |
| 20°-30° | 2082.7 | 6.7 |
| 30°-40° | 3253.7 | 10.4 |
| 40°-50° | 5181.9 | 16.6 |
| 50°-60° | 7211.2 | 23.0 |
| 60°-70° | 7543.3 | 24.1 |
| 70°-80° | 3942.5 | 12.6 |
| 80°-90° | 409.4 | 1.3 |
| 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° | 31303.0 | 100.0 |
| 0°-180° | 31303.0 | 100.0 |



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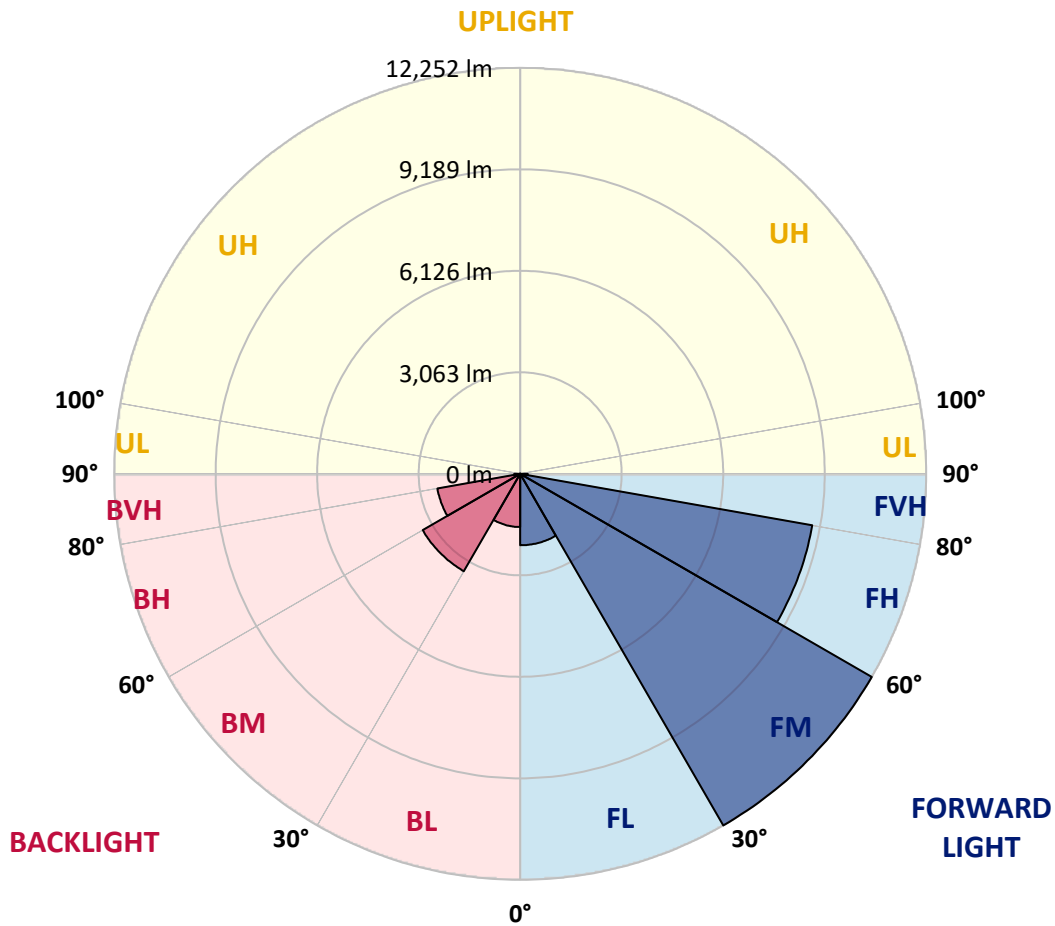
CATALOG NUMBER: GALN-SB6C-950-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2155.6 | 6.9 | | | |
| FM (30°-60°) | 12251.7 | 39.1 | | | |
| FH (60°-80°) | 8949.6 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 229.2 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1605.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3395.2 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2536.2 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 180.2 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 |
| 2.5° | 4699.0 | 4725.6 | 4717.3 | 4709.0 | 4709.0 | 4697.4 | 4695.7 | 4679.1 | 4665.8 | 4644.2 |
| 5° | 4758.8 | 4787.1 | 4783.8 | 4790.4 | 4812.0 | 4817.0 | 4822.0 | 4812.0 | 4785.4 | 4758.8 |
| 7.5° | 4705.7 | 4737.2 | 4747.2 | 4787.1 | 4853.5 | 4913.3 | 4958.2 | 4976.4 | 4951.5 | 4913.3 |
| 10° | 4526.3 | 4561.2 | 4596.1 | 4690.7 | 4808.7 | 4949.9 | 5069.4 | 5140.9 | 5135.9 | 5099.3 |
| 12.5° | 4162.5 | 4199.1 | 4273.8 | 4458.2 | 4674.1 | 4923.3 | 5145.9 | 5295.3 | 5346.8 | 5320.3 |
| 15° | 3871.8 | 3903.4 | 3959.9 | 4149.2 | 4430.0 | 4808.7 | 5174.1 | 5464.8 | 5596.0 | 5581.0 |
| 17.5° | 3863.5 | 3876.8 | 3911.7 | 4001.4 | 4217.3 | 4629.3 | 5144.2 | 5630.9 | 5881.7 | 5880.0 |
| 20° | 4009.7 | 4014.7 | 4034.6 | 4052.9 | 4175.8 | 4493.1 | 5067.8 | 5768.7 | 6202.3 | 6202.3 |
| 22.5° | 4212.4 | 4209.0 | 4229.0 | 4212.4 | 4272.2 | 4481.4 | 5019.6 | 5890.0 | 6559.4 | 6586.0 |
| 25° | 4516.3 | 4499.7 | 4494.7 | 4456.5 | 4468.2 | 4589.4 | 5072.8 | 6027.9 | 6982.9 | 7037.8 |
| 27.5° | 4921.6 | 4895.0 | 4876.8 | 4788.7 | 4758.8 | 4812.0 | 5235.5 | 6194.0 | 7454.7 | 7549.4 |
| 30° | 5449.8 | 5401.7 | 5375.1 | 5222.3 | 5114.3 | 5122.6 | 5481.4 | 6414.9 | 7948.0 | 8100.8 |
| 32.5° | 6170.7 | 6096.0 | 6024.5 | 5773.7 | 5576.1 | 5511.3 | 5798.6 | 6720.5 | 8482.9 | 8727.0 |
| 35° | 6978.0 | 6918.2 | 6841.8 | 6454.7 | 6150.8 | 6001.3 | 6227.2 | 7147.4 | 9109.1 | 9496.1 |
| 37.5° | 7755.3 | 7703.8 | 7740.4 | 7218.8 | 6826.8 | 6609.2 | 6788.6 | 7720.4 | 9881.4 | 10452.8 |
| 40° | 8559.3 | 8519.4 | 8524.4 | 8026.1 | 7569.3 | 7325.1 | 7469.6 | 8439.7 | 10766.8 | 11590.6 |
| 42.5° | 9433.0 | 9403.1 | 9303.4 | 8861.6 | 8348.3 | 8120.7 | 8253.6 | 9270.2 | 11716.9 | 12886.2 |
| 45° | 10411.3 | 10393.0 | 10300.0 | 9793.4 | 9205.4 | 8949.6 | 9129.0 | 10187.1 | 12672.0 | 14105.4 |
| 47.5° | 11256.8 | 11271.7 | 11260.1 | 10833.2 | 10223.6 | 9848.2 | 10062.5 | 11143.8 | 13560.6 | 15251.5 |
| 50° | 11663.7 | 11741.8 | 11856.4 | 11723.5 | 11344.8 | 10962.8 | 11004.3 | 12067.3 | 14407.7 | 16326.2 |
| 52.5° | 11451.1 | 11598.9 | 11911.2 | 12123.8 | 12270.0 | 12190.3 | 12079.0 | 12984.2 | 15205.0 | 17296.3 |
| 55° | 10658.8 | 10866.4 | 11384.7 | 11897.9 | 12643.7 | 13223.4 | 13369.6 | 14000.8 | 15982.4 | 18150.0 |
| 57.5° | 9215.4 | 9552.6 | 10017.6 | 11055.8 | 12311.5 | 13723.4 | 14874.5 | 15411.0 | 16806.2 | 19061.9 |
| 60° | 6740.4 | 7192.2 | 7770.3 | 9315.0 | 11148.8 | 13456.0 | 16155.1 | 17577.0 | 17977.3 | 20242.9 |
| 62.5° | 4313.7 | 4592.7 | 5124.3 | 6579.3 | 8687.2 | 12085.6 | 16547.1 | 20284.4 | 19962.2 | 22179.7 |
| 65° | 2953.3 | 3132.7 | 3619.4 | 4436.6 | 5615.9 | 8996.1 | 15497.4 | 22314.2 | 23114.8 | 25249.2 |
| 67.5° | 2146.0 | 2282.2 | 2697.5 | 3413.4 | 3659.2 | 5323.6 | 12025.8 | 22221.2 | 26179.4 | 28411.8 |
| 70° | 1564.7 | 1661.0 | 2009.8 | 2697.5 | 2815.4 | 2961.6 | 7285.3 | 18889.2 | 26113.0 | 29252.3 |
| 72.5° | 1159.4 | 1225.8 | 1460.0 | 2092.9 | 2278.9 | 1999.9 | 3606.1 | 13728.4 | 22438.8 | 26458.5 |
| 75° | 838.8 | 888.6 | 1061.4 | 1601.2 | 1823.8 | 1523.2 | 1798.9 | 8022.7 | 15651.8 | 18611.8 |
| 77.5° | 641.2 | 679.4 | 792.3 | 1172.7 | 1460.0 | 1142.8 | 1116.2 | 3690.8 | 7421.5 | 7458.0 |
| 80° | 514.9 | 539.8 | 601.3 | 825.5 | 1119.5 | 855.4 | 727.5 | 1489.9 | 2345.4 | 1984.9 |
| 82.5° | 378.7 | 420.2 | 508.3 | 579.7 | 800.6 | 589.7 | 443.5 | 752.4 | 892.0 | 767.4 |
| 85° | 215.9 | 244.2 | 307.3 | 415.3 | 511.6 | 360.4 | 254.1 | 333.9 | 415.3 | 340.5 |
| 87.5° | 76.4 | 99.7 | 108.0 | 162.8 | 222.6 | 149.5 | 98.0 | 96.3 | 136.2 | 101.3 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4589.4 | 0° | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 | 4589.4 |
| 4639.2 | 2.5° | 4622.6 | 4614.3 | 4581.1 | 4536.3 | 4489.7 | 4444.9 | 4430.0 | 4398.4 | 4376.8 | 4365.2 |
| 4747.2 | 5° | 4715.6 | 4689.1 | 4611.0 | 4511.3 | 4406.7 | 4293.7 | 4214.0 | 4140.9 | 4087.8 | 4038.0 |
| 4895.0 | 7.5° | 4848.5 | 4802.0 | 4667.5 | 4493.1 | 4307.0 | 4119.3 | 3979.8 | 3873.5 | 3802.1 | 3755.6 |
| 5067.8 | 10° | 5003.0 | 4931.6 | 4725.6 | 4464.8 | 4177.5 | 3908.4 | 3743.9 | 3652.6 | 3607.7 | 3582.8 |
| 5265.4 | 12.5° | 5180.7 | 5079.4 | 4785.4 | 4400.1 | 3979.8 | 3672.5 | 3559.6 | 3533.0 | 3534.7 | 3536.3 |
| 5514.6 | 15° | 5400.0 | 5258.8 | 4833.6 | 4258.9 | 3722.4 | 3491.5 | 3471.5 | 3514.7 | 3559.6 | 3581.2 |
| 5797.0 | 17.5° | 5647.5 | 5448.2 | 4841.9 | 4026.3 | 3469.9 | 3375.2 | 3438.3 | 3531.3 | 3599.4 | 3629.3 |
| 6112.6 | 20° | 5913.2 | 5640.8 | 4782.1 | 3697.4 | 3262.3 | 3280.5 | 3393.5 | 3513.1 | 3587.8 | 3626.0 |
| 6473.0 | 22.5° | 6217.2 | 5846.8 | 4639.2 | 3351.9 | 3092.8 | 3177.5 | 3310.4 | 3426.7 | 3504.8 | 3543.0 |
| 6896.6 | 25° | 6564.4 | 6077.7 | 4415.0 | 3061.3 | 2946.7 | 3061.3 | 3194.2 | 3290.5 | 3353.6 | 3388.5 |
| 7370.0 | 27.5° | 6949.7 | 6318.5 | 4116.0 | 2830.4 | 2818.8 | 2941.7 | 3051.3 | 3126.0 | 3159.3 | 3185.8 |
| 7873.3 | 30° | 7336.7 | 6537.8 | 3753.9 | 2656.0 | 2707.5 | 2823.7 | 2901.8 | 2935.0 | 2945.0 | 2950.0 |
| 8434.7 | 32.5° | 7755.3 | 6727.2 | 3373.5 | 2511.5 | 2601.2 | 2709.1 | 2755.6 | 2770.6 | 2724.1 | 2692.5 |
| 9115.7 | 35° | 8261.9 | 6929.8 | 3001.5 | 2396.9 | 2496.5 | 2589.5 | 2604.5 | 2591.2 | 2536.4 | 2471.6 |
| 9969.5 | 37.5° | 8888.1 | 7182.3 | 2704.1 | 2315.5 | 2398.5 | 2460.0 | 2441.7 | 2438.4 | 2443.4 | 2367.0 |
| 10996.0 | 40° | 9655.5 | 7511.2 | 2486.6 | 2252.3 | 2318.8 | 2332.1 | 2280.6 | 2308.8 | 2333.7 | 2217.5 |
| 12122.2 | 42.5° | 10507.6 | 7908.1 | 2348.7 | 2209.2 | 2252.3 | 2220.8 | 2141.1 | 2172.6 | 2169.3 | 2016.5 |
| 13253.3 | 45° | 11376.4 | 8340.0 | 2300.5 | 2177.6 | 2190.9 | 2127.8 | 2039.7 | 2048.0 | 1978.3 | 1840.4 |
| 14338.0 | 47.5° | 12240.1 | 8803.4 | 2330.4 | 2151.0 | 2114.5 | 2043.1 | 1975.0 | 1938.4 | 1835.4 | 1732.4 |
| 15377.8 | 50° | 13087.2 | 9290.1 | 2440.0 | 2097.9 | 2009.8 | 1968.3 | 1918.5 | 1853.7 | 1744.1 | 1656.0 |
| 16361.1 | 52.5° | 13872.9 | 9780.1 | 2563.0 | 2009.8 | 1878.6 | 1903.5 | 1872.0 | 1797.2 | 1689.3 | 1599.6 |
| 17291.3 | 55° | 14617.0 | 10270.1 | 2611.1 | 1888.6 | 1755.7 | 1847.1 | 1828.8 | 1690.9 | 1561.4 | 1488.3 |
| 18264.6 | 57.5° | 15427.6 | 10859.8 | 2558.0 | 1734.1 | 1656.0 | 1782.3 | 1712.5 | 1559.7 | 1485.0 | 1430.1 |
| 19532.0 | 60° | 16550.5 | 11785.0 | 2443.4 | 1543.1 | 1561.4 | 1685.9 | 1566.3 | 1503.2 | 1421.8 | 1360.4 |
| 21432.2 | 62.5° | 18415.8 | 13510.8 | 2259.0 | 1353.7 | 1450.1 | 1543.1 | 1496.6 | 1433.5 | 1350.4 | 1290.6 |
| 24681.2 | 65° | 21173.1 | 15909.3 | 1911.8 | 1205.9 | 1325.5 | 1403.6 | 1421.8 | 1358.7 | 1272.3 | 1209.2 |
| 27528.2 | 67.5° | 23498.5 | 17414.2 | 1446.8 | 1083.0 | 1197.6 | 1290.6 | 1342.1 | 1280.7 | 1189.3 | 1127.8 |
| 28194.2 | 70° | 23370.6 | 16321.2 | 1104.6 | 961.7 | 1084.6 | 1179.3 | 1245.8 | 1197.6 | 1099.6 | 1041.5 |
| 25609.7 | 72.5° | 20757.8 | 13653.6 | 893.6 | 838.8 | 970.0 | 1063.1 | 1142.8 | 1106.2 | 1006.6 | 950.1 |
| 18761.3 | 75° | 15249.9 | 9692.1 | 714.2 | 714.2 | 827.2 | 941.8 | 1029.8 | 1006.6 | 915.2 | 875.4 |
| 7876.6 | 77.5° | 6428.2 | 4066.2 | 559.8 | 593.0 | 687.7 | 808.9 | 918.5 | 926.9 | 847.1 | 897.0 |
| 2082.9 | 80° | 1709.2 | 1121.2 | 426.9 | 466.7 | 539.8 | 667.7 | 799.0 | 795.6 | 709.3 | 662.7 |
| 774.0 | 82.5° | 651.1 | 441.8 | 304.0 | 328.9 | 390.3 | 511.6 | 632.9 | 652.8 | 566.4 | 490.0 |
| 304.0 | 85° | 250.8 | 189.4 | 187.7 | 197.7 | 227.6 | 338.8 | 478.4 | 495.0 | 426.9 | 362.1 |
| 84.7 | 87.5° | 64.8 | 56.5 | 69.8 | 66.4 | 104.6 | 181.1 | 274.1 | 284.0 | 260.8 | 151.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 4589.4 |
| 4378.5 |
| 4057.9 |
| 3765.5 |
| 3589.5 |
| 3539.6 |
| 3579.5 |
| 3636.0 |
| 3636.0 |
| 3552.9 |
| 3398.5 |
| 3195.8 |
| 2961.6 |
| 2702.5 |
| 2474.9 |
| 2371.9 |
| 2220.8 |
| 2014.8 |
| 1845.4 |
| 1732.4 |
| 1649.4 |
| 1601.2 |
| 1481.6 |
| 1425.2 |
| 1357.1 |
| 1290.6 |
| 1212.5 |
| 1129.5 |
| 1046.4 |
| 950.1 |
| 863.7 |
| 813.9 |
| 616.2 |
| 490.0 |
| 373.7 |
| 215.9 |
| 0.0 |

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