

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: STREETWORKS

Report Number: P946862

Luminaire Tested: **GLAN-SB2B-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2B-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10916 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

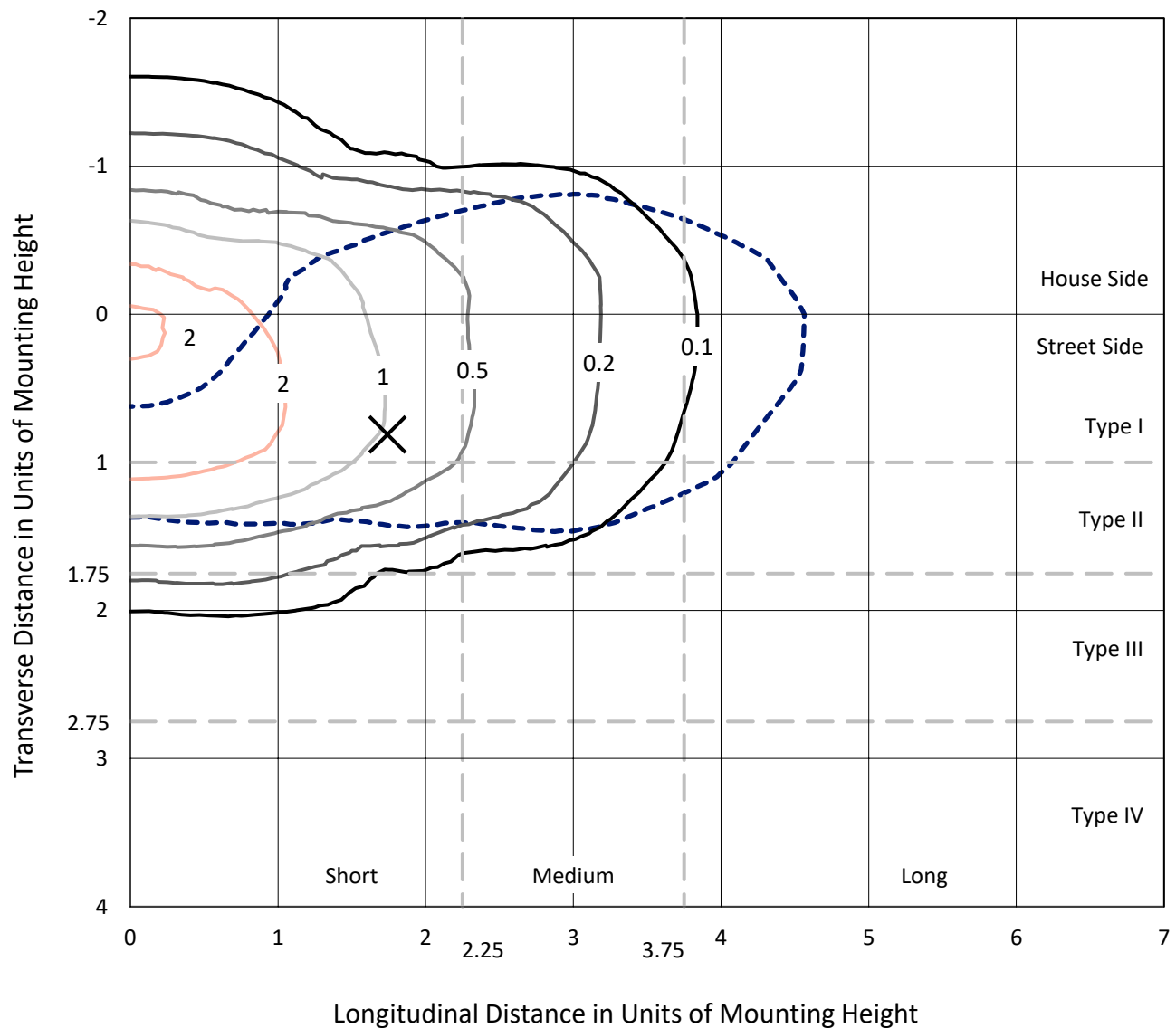
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

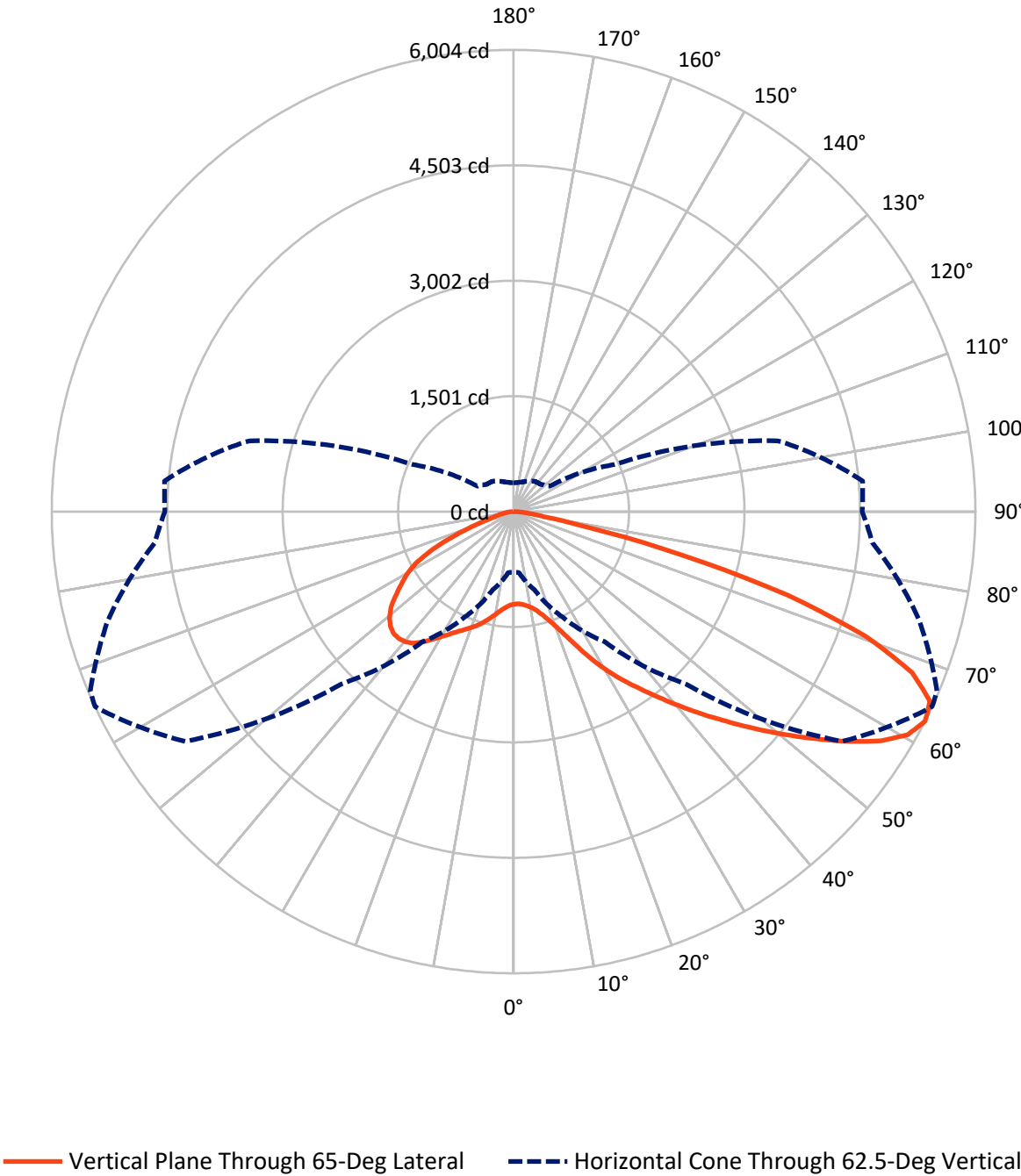
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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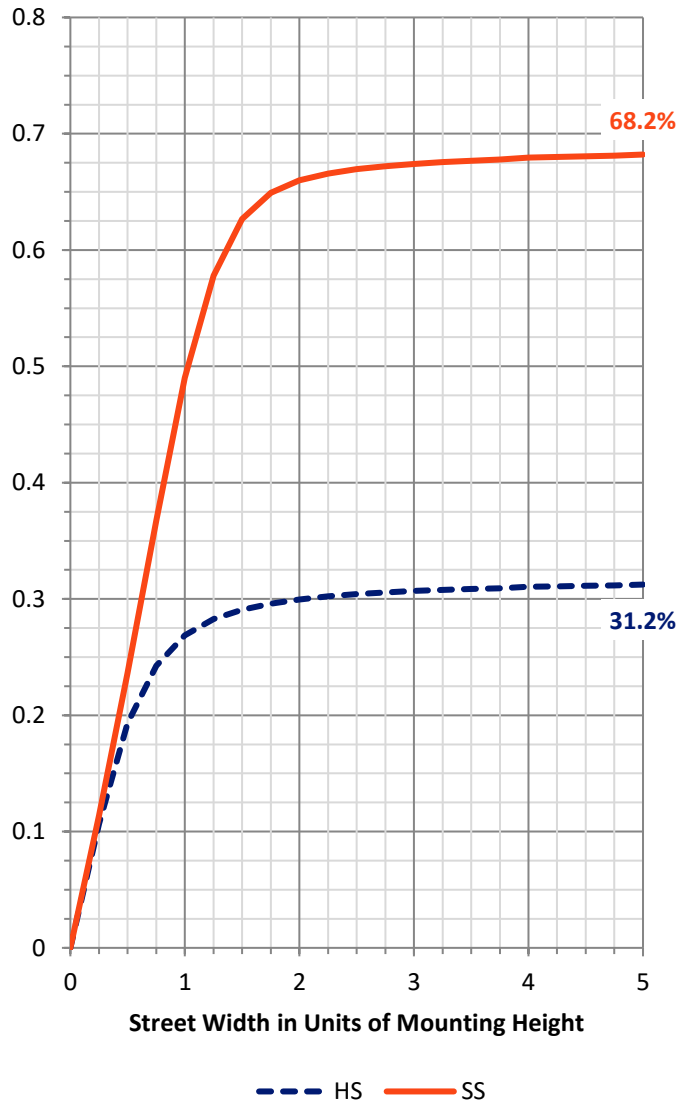
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3444.6   | 0.0    | 3444.6  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 7471.4   | 0.0    | 7471.4  |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 10916.0  | 0.0    | 10916.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 119.9   | 1.1       |
| 10°-20°   | 406.7   | 3.7       |
| 20°-30°   | 824.6   | 7.6       |
| 30°-40°   | 1426.9  | 13.1      |
| 40°-50°   | 2159.4  | 19.8      |
| 50°-60°   | 2531.8  | 23.2      |
| 60°-70°   | 2122.6  | 19.4      |
| 70°-80°   | 1171.8  | 10.7      |
| 80°-90°   | 152.2   | 1.4       |
| 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°    | 10916.0 | 100.0     |
| 0°-180°   | 10916.0 | 100.0     |

**Coefficient of Utilization**



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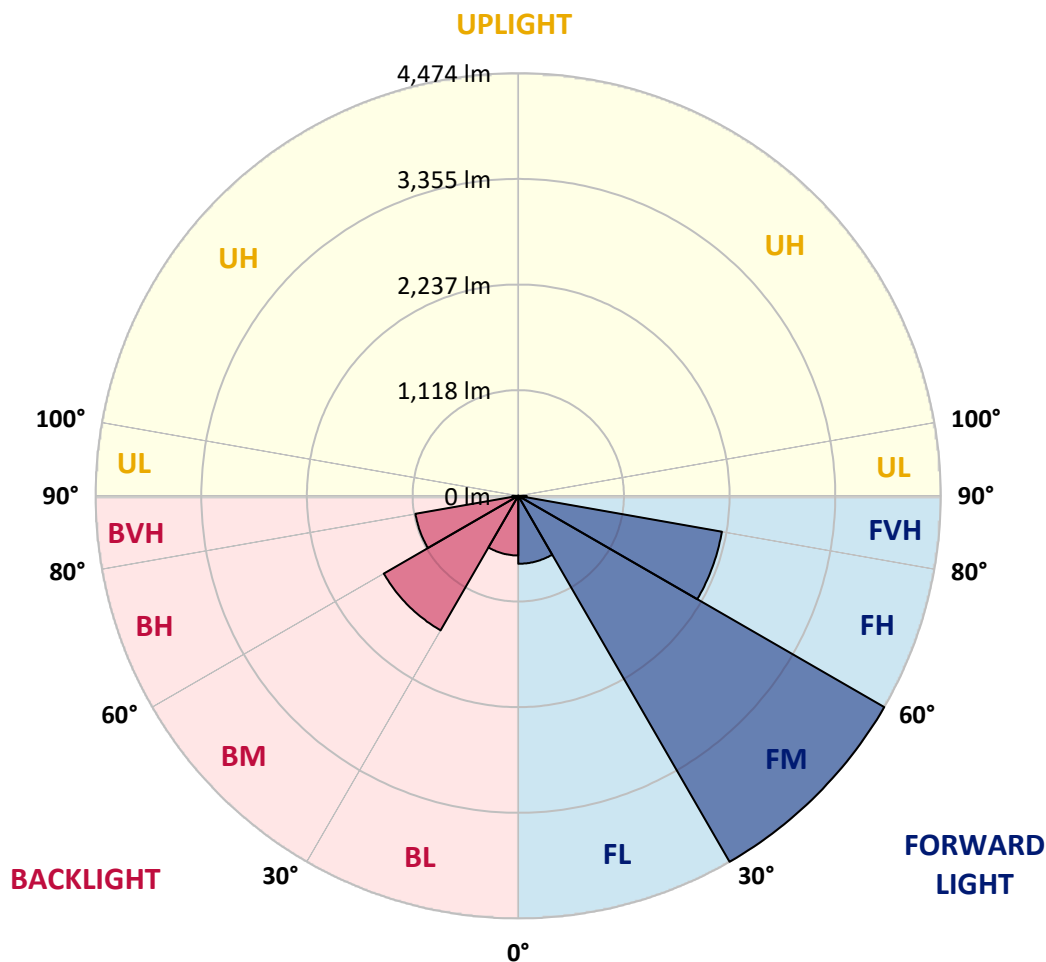
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 719.5  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 4473.7 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 2189.4 | 20.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 88.7   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 631.7  | 5.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1644.4 | 15.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1105.0 | 10.1      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 63.5   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 |
| 2.5°  | 1195.0 | 1191.6 | 1194.4 | 1194.4 | 1195.5 | 1195.0 | 1198.9 | 1200.1 | 1201.8 | 1205.2 |
| 5°    | 1183.1 | 1182.5 | 1187.6 | 1192.1 | 1196.7 | 1200.6 | 1205.7 | 1213.1 | 1214.2 | 1218.2 |
| 7.5°  | 1179.1 | 1175.7 | 1183.6 | 1189.3 | 1200.1 | 1209.7 | 1223.3 | 1235.7 | 1240.8 | 1242.5 |
| 10°   | 1209.7 | 1204.0 | 1211.4 | 1214.8 | 1223.9 | 1233.5 | 1249.3 | 1269.2 | 1274.8 | 1281.6 |
| 12.5° | 1261.8 | 1255.6 | 1266.3 | 1271.4 | 1279.9 | 1288.4 | 1299.2 | 1318.4 | 1321.3 | 1333.7 |
| 15°   | 1333.2 | 1325.8 | 1332.6 | 1338.8 | 1353.0 | 1360.9 | 1371.7 | 1390.4 | 1390.4 | 1400.0 |
| 17.5° | 1430.0 | 1420.4 | 1425.5 | 1427.7 | 1436.8 | 1448.7 | 1466.8 | 1483.2 | 1491.7 | 1488.3 |
| 20°   | 1574.4 | 1562.5 | 1562.5 | 1551.2 | 1547.8 | 1557.4 | 1581.2 | 1603.9 | 1612.9 | 1595.4 |
| 22.5° | 1791.3 | 1774.3 | 1764.7 | 1726.2 | 1710.9 | 1712.0 | 1735.8 | 1763.6 | 1770.9 | 1739.8 |
| 25°   | 2067.1 | 2040.5 | 2027.5 | 1970.8 | 1936.3 | 1906.3 | 1925.0 | 1960.7 | 1970.8 | 1932.3 |
| 27.5° | 2342.9 | 2344.6 | 2332.2 | 2264.2 | 2207.0 | 2152.1 | 2142.4 | 2179.8 | 2190.6 | 2147.0 |
| 30°   | 2729.7 | 2689.5 | 2665.7 | 2584.2 | 2502.6 | 2425.6 | 2386.0 | 2401.3 | 2404.1 | 2352.0 |
| 32.5° | 3063.3 | 3053.1 | 3002.1 | 2930.8 | 2826.0 | 2705.4 | 2639.1 | 2614.8 | 2610.2 | 2536.0 |
| 35°   | 3443.3 | 3437.7 | 3383.9 | 3298.9 | 3185.6 | 3018.0 | 2898.5 | 2828.8 | 2823.2 | 2719.0 |
| 37.5° | 3829.6 | 3829.6 | 3776.9 | 3684.0 | 3566.8 | 3357.2 | 3175.4 | 3065.0 | 3046.9 | 2911.0 |
| 40°   | 4137.6 | 4119.0 | 4128.6 | 4089.5 | 3955.3 | 3732.7 | 3483.0 | 3322.7 | 3298.3 | 3135.2 |
| 42.5° | 4312.6 | 4306.4 | 4364.2 | 4407.8 | 4352.9 | 4175.0 | 3821.6 | 3601.9 | 3567.9 | 3382.2 |
| 45°   | 4351.7 | 4344.9 | 4448.0 | 4607.7 | 4684.7 | 4611.7 | 4189.7 | 3895.8 | 3854.5 | 3640.4 |
| 47.5° | 4261.7 | 4248.1 | 4399.3 | 4651.3 | 4898.2 | 5026.8 | 4588.4 | 4214.7 | 4154.6 | 3891.9 |
| 50°   | 3991.0 | 3977.9 | 4206.7 | 4541.4 | 4970.2 | 5308.8 | 5021.1 | 4552.8 | 4461.0 | 4161.4 |
| 52.5° | 3402.5 | 3408.8 | 3767.3 | 4227.1 | 4875.6 | 5484.4 | 5393.8 | 4909.0 | 4798.6 | 4437.2 |
| 55°   | 2650.4 | 2664.0 | 3104.6 | 3611.0 | 4497.3 | 5457.8 | 5648.1 | 5276.0 | 5166.1 | 4696.6 |
| 57.5° | 1897.8 | 1957.8 | 2370.7 | 2871.9 | 3770.7 | 5035.9 | 5703.6 | 5624.8 | 5518.4 | 4979.8 |
| 60°   | 1230.1 | 1240.8 | 1665.6 | 2170.8 | 2871.3 | 4286.0 | 5590.9 | 5889.3 | 5806.1 | 5268.6 |
| 62.5° | 788.3  | 795.7  | 1054.5 | 1518.3 | 2066.6 | 3170.9 | 5211.4 | 6004.3 | 5978.8 | 5459.5 |
| 65°   | 579.4  | 573.7  | 708.5  | 1003.5 | 1392.1 | 1955.6 | 4474.6 | 5948.8 | 5999.2 | 5579.0 |
| 67.5° | 483.7  | 475.7  | 542.0  | 694.9  | 1025.6 | 1110.6 | 3310.8 | 5588.0 | 5772.7 | 5565.4 |
| 70°   | 440.6  | 433.8  | 474.0  | 515.9  | 800.2  | 743.6  | 1669.0 | 4858.0 | 5142.3 | 5410.8 |
| 72.5° | 373.2  | 361.3  | 416.3  | 458.2  | 622.4  | 570.3  | 689.8  | 3731.6 | 4078.2 | 4915.2 |
| 75°   | 289.4  | 281.5  | 328.5  | 403.2  | 467.8  | 445.1  | 436.1  | 2265.9 | 2644.2 | 3801.2 |
| 77.5° | 229.4  | 218.6  | 261.6  | 314.3  | 420.8  | 335.8  | 317.7  | 975.8  | 1350.7 | 2426.7 |
| 80°   | 172.7  | 163.1  | 198.8  | 248.6  | 323.4  | 253.2  | 205.6  | 398.1  | 509.1  | 1229.5 |
| 82.5° | 122.9  | 114.4  | 138.8  | 182.4  | 217.5  | 227.1  | 126.3  | 223.1  | 250.9  | 474.0  |
| 85°   | 78.7   | 73.6   | 92.9   | 114.4  | 138.2  | 146.1  | 77.0   | 116.7  | 128.0  | 195.4  |
| 87.5° | 43.0   | 35.1   | 49.8   | 53.2   | 64.0   | 58.3   | 36.8   | 42.5   | 45.9   | 70.8   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1202.9 | 0°    | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 | 1202.9 |
| 1205.2 | 2.5°  | 1207.4 | 1209.1 | 1214.8 | 1216.5 | 1220.5 | 1225.5 | 1228.9 | 1232.3 | 1232.3 | 1235.7 |
| 1223.3 | 5°    | 1223.9 | 1227.8 | 1239.7 | 1245.9 | 1256.1 | 1266.3 | 1272.6 | 1279.9 | 1284.4 | 1286.7 |
| 1252.2 | 7.5°  | 1255.6 | 1261.8 | 1278.8 | 1289.5 | 1307.1 | 1321.3 | 1330.9 | 1341.1 | 1343.3 | 1349.6 |
| 1292.4 | 10°   | 1298.6 | 1306.0 | 1325.2 | 1345.6 | 1366.6 | 1384.1 | 1393.2 | 1400.5 | 1403.4 | 1404.5 |
| 1343.9 | 12.5° | 1347.9 | 1358.6 | 1383.6 | 1408.5 | 1430.6 | 1445.9 | 1448.1 | 1446.4 | 1438.5 | 1431.7 |
| 1407.3 | 15°   | 1408.5 | 1418.1 | 1445.9 | 1473.0 | 1494.6 | 1497.4 | 1483.2 | 1474.2 | 1464.5 | 1462.8 |
| 1478.1 | 17.5° | 1481.0 | 1486.1 | 1511.5 | 1538.2 | 1539.9 | 1530.2 | 1509.3 | 1500.8 | 1491.7 | 1485.5 |
| 1570.4 | 20°   | 1565.4 | 1563.7 | 1581.8 | 1593.1 | 1581.2 | 1551.8 | 1520.0 | 1505.9 | 1496.8 | 1489.5 |
| 1683.7 | 22.5° | 1666.2 | 1653.1 | 1650.9 | 1648.0 | 1616.3 | 1554.6 | 1511.5 | 1493.4 | 1479.3 | 1469.1 |
| 1841.7 | 25°   | 1812.8 | 1763.0 | 1728.5 | 1709.2 | 1637.8 | 1539.3 | 1484.4 | 1444.2 | 1417.5 | 1400.0 |
| 2034.8 | 27.5° | 1996.3 | 1912.5 | 1825.3 | 1778.3 | 1637.8 | 1508.2 | 1418.7 | 1353.5 | 1309.9 | 1291.8 |
| 2221.7 | 30°   | 2171.3 | 2083.5 | 1955.0 | 1861.5 | 1633.9 | 1457.2 | 1312.8 | 1222.2 | 1171.2 | 1153.1 |
| 2381.4 | 32.5° | 2320.8 | 2225.1 | 2092.6 | 1952.7 | 1624.2 | 1374.5 | 1181.4 | 1081.1 | 1031.9 | 1010.3 |
| 2539.4 | 35°   | 2459.6 | 2357.7 | 2230.8 | 2053.0 | 1598.8 | 1253.3 | 1037.0 | 960.5  | 905.6  | 871.0  |
| 2700.3 | 37.5° | 2601.7 | 2480.5 | 2361.6 | 2143.6 | 1552.9 | 1111.7 | 926.0  | 860.8  | 796.3  | 749.8  |
| 2871.3 | 40°   | 2756.4 | 2611.4 | 2501.5 | 2197.4 | 1477.6 | 976.9  | 839.9  | 780.4  | 711.9  | 662.6  |
| 3068.4 | 42.5° | 2937.0 | 2768.2 | 2657.2 | 2225.1 | 1374.5 | 881.2  | 783.8  | 725.5  | 660.9  | 620.7  |
| 3279.6 | 45°   | 3125.6 | 2941.0 | 2799.4 | 2224.6 | 1259.5 | 836.5  | 765.7  | 707.9  | 636.6  | 594.7  |
| 3496.6 | 47.5° | 3323.3 | 3121.6 | 2922.3 | 2188.3 | 1159.9 | 842.7  | 755.5  | 670.0  | 591.3  | 550.5  |
| 3715.7 | 50°   | 3521.5 | 3319.3 | 3041.2 | 2120.4 | 1117.4 | 829.1  | 717.5  | 616.7  | 523.9  | 487.0  |
| 3921.3 | 52.5° | 3718.0 | 3529.4 | 3143.7 | 2023.5 | 1074.3 | 778.7  | 668.8  | 547.6  | 496.1  | 470.6  |
| 4133.7 | 55°   | 3915.6 | 3737.2 | 3255.3 | 1882.5 | 966.7  | 719.8  | 587.3  | 521.6  | 474.0  | 450.8  |
| 4341.5 | 57.5° | 4113.9 | 3977.4 | 3361.2 | 1741.5 | 831.4  | 647.3  | 542.5  | 489.9  | 451.9  | 432.1  |
| 4515.4 | 60°   | 4320.0 | 4252.0 | 3470.5 | 1611.8 | 697.7  | 554.4  | 509.7  | 464.4  | 425.9  | 403.8  |
| 4682.5 | 62.5° | 4532.4 | 4554.5 | 3556.0 | 1444.7 | 574.8  | 497.8  | 480.3  | 433.8  | 396.4  | 375.5  |
| 4820.6 | 65°   | 4746.5 | 4846.1 | 3612.1 | 1213.1 | 466.1  | 444.0  | 448.5  | 400.4  | 362.5  | 344.3  |
| 4922.0 | 67.5° | 4907.9 | 5056.2 | 3596.2 | 918.0  | 382.3  | 393.0  | 408.9  | 365.3  | 329.6  | 315.4  |
| 4905.6 | 70°   | 4926.0 | 5031.3 | 3439.9 | 628.6  | 320.0  | 343.2  | 364.7  | 330.7  | 293.9  | 283.7  |
| 4674.5 | 72.5° | 4684.7 | 4691.5 | 3004.4 | 410.6  | 270.7  | 301.3  | 318.3  | 295.6  | 259.9  | 249.8  |
| 4089.5 | 75°   | 4052.1 | 3880.0 | 2205.9 | 270.7  | 226.5  | 258.8  | 274.7  | 258.8  | 224.3  | 226.5  |
| 3059.9 | 77.5° | 3070.1 | 2747.9 | 1339.4 | 192.6  | 189.2  | 217.5  | 239.0  | 227.7  | 198.2  | 222.6  |
| 1538.7 | 80°   | 1581.8 | 1486.6 | 597.5  | 143.8  | 149.5  | 173.9  | 196.5  | 181.8  | 156.9  | 149.5  |
| 343.8  | 82.5° | 362.5  | 421.4  | 235.6  | 103.1  | 108.2  | 125.2  | 150.1  | 136.5  | 112.7  | 95.1   |
| 143.3  | 85°   | 126.9  | 138.8  | 104.2  | 64.6   | 63.4   | 78.2   | 101.9  | 91.2   | 76.5   | 61.2   |
| 60.6   | 87.5° | 40.2   | 52.7   | 39.1   | 26.1   | 27.2   | 35.1   | 47.0   | 43.0   | 35.7   | 23.2   |
| 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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| 180°   |
|--------|
| 1202.9 |
| 1235.7 |
| 1287.8 |
| 1347.3 |
| 1401.7 |
| 1431.7 |
| 1462.8 |
| 1486.1 |
| 1490.0 |
| 1472.5 |
| 1406.8 |
| 1300.9 |
| 1163.8 |
| 1021.1 |
| 882.4  |
| 762.3  |
| 672.2  |
| 628.6  |
| 601.4  |
| 556.1  |
| 489.3  |
| 470.6  |
| 448.5  |
| 428.7  |
| 402.1  |
| 374.9  |
| 343.8  |
| 316.0  |
| 284.3  |
| 249.2  |
| 218.6  |
| 196.0  |
| 136.5  |
| 94.0   |
| 64.6   |
| 24.4   |
| 0.0    |