

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: P846825

Luminaire Tested: **GLAN-SB2C-850-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2C-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 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: 9391 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

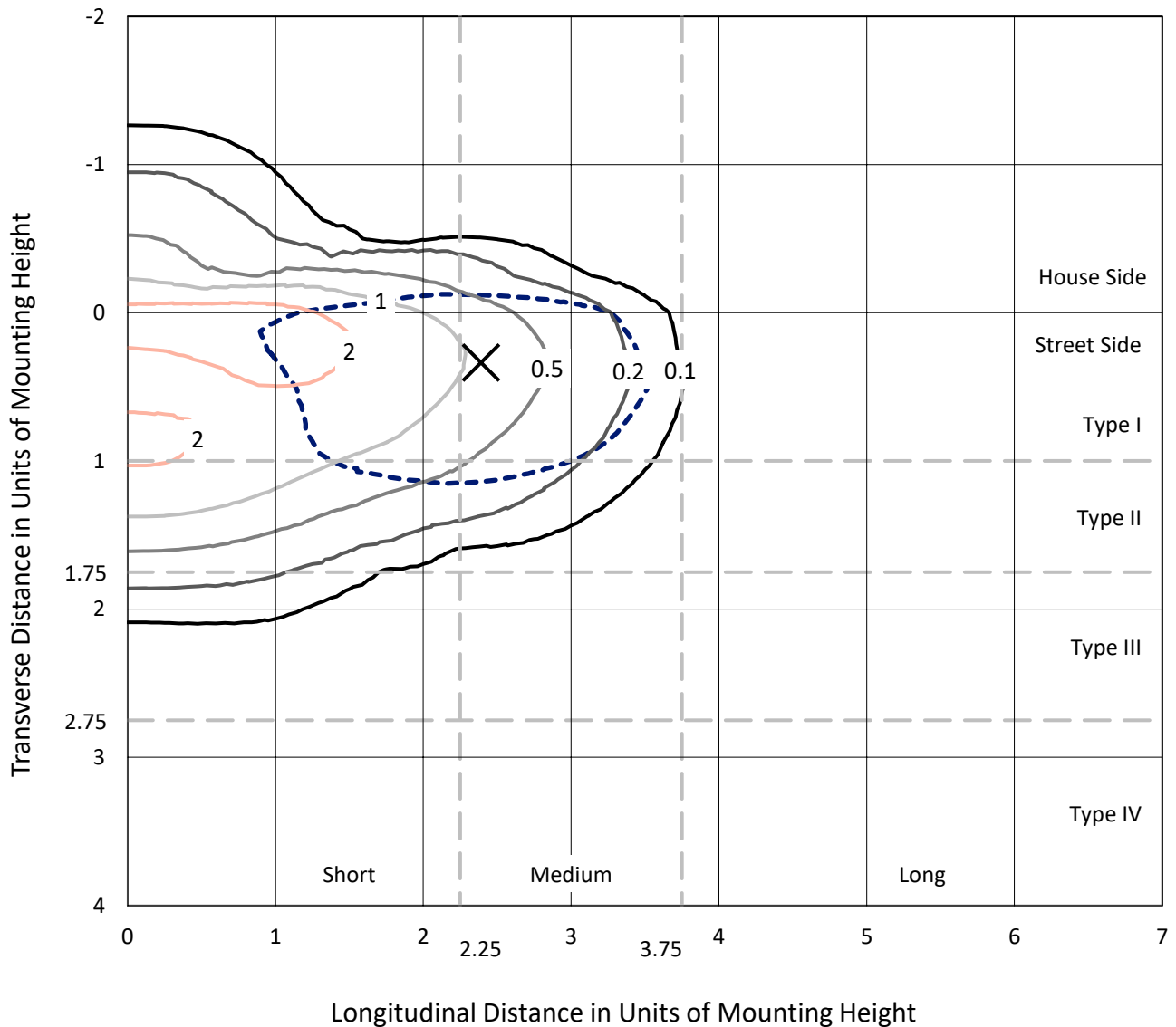
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

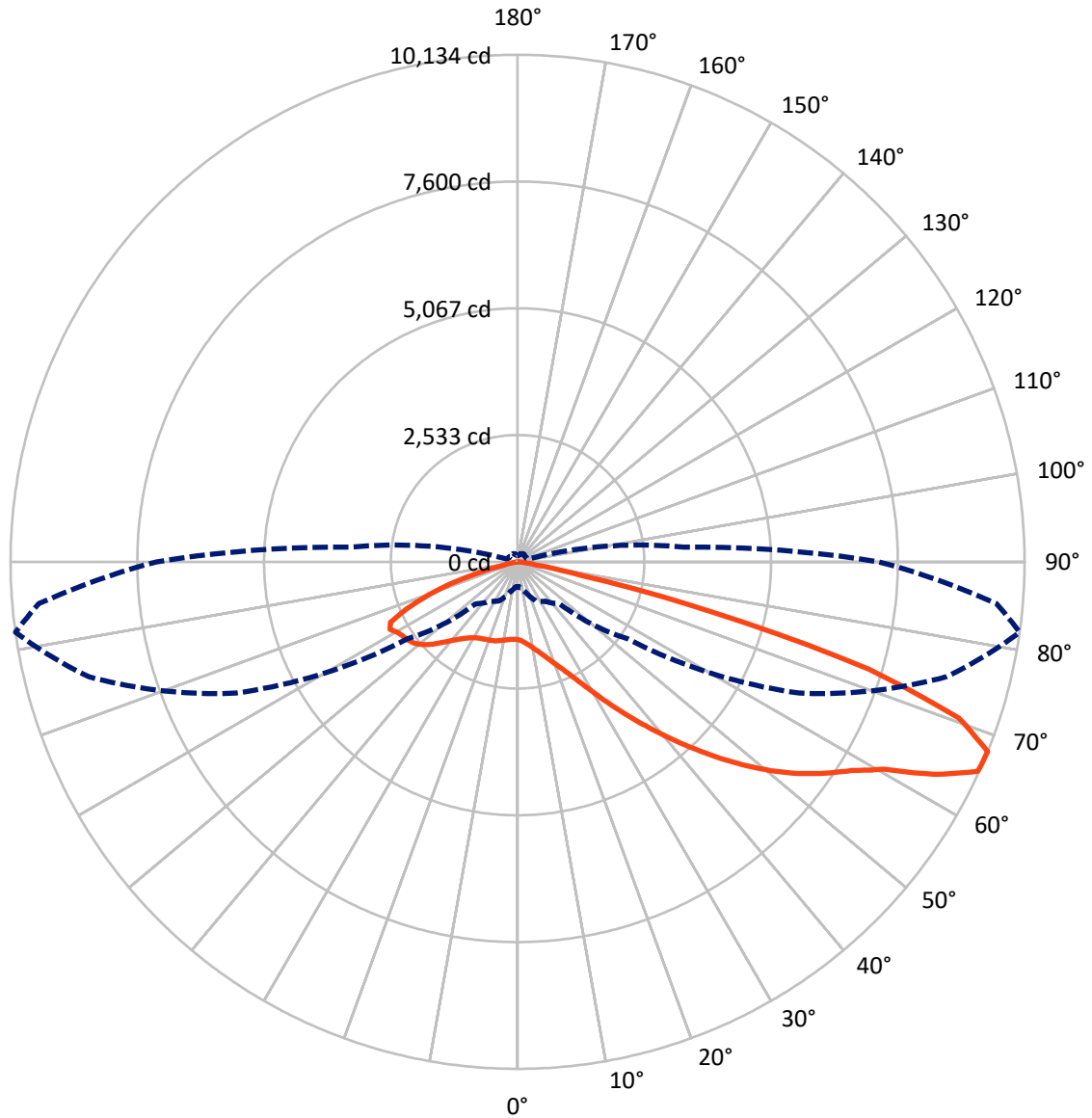
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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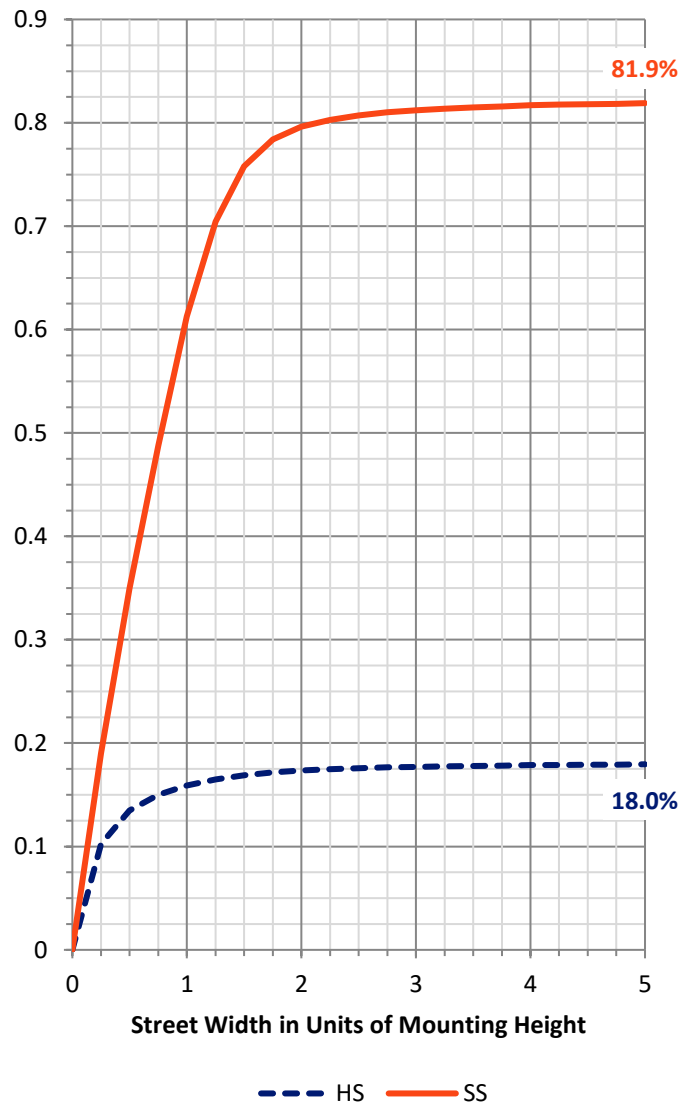
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1701.1   | 0.0    | 1701.1 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 7689.9   | 0.0    | 7689.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 9391.0   | 0.0    | 9391.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.6  | 1.5       |
| 10°-20°   | 360.2  | 3.8       |
| 20°-30°   | 576.9  | 6.1       |
| 30°-40°   | 1020.1 | 10.9      |
| 40°-50°   | 1787.4 | 19.0      |
| 50°-60°   | 2383.9 | 25.4      |
| 60°-70°   | 2219.3 | 23.6      |
| 70°-80°   | 851.7  | 9.1       |
| 80°-90°   | 52.9   | 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°    | 9391.0 | 100.0     |
| 0°-180°   | 9391.0 | 100.0     |

**Coefficient of Utilization**

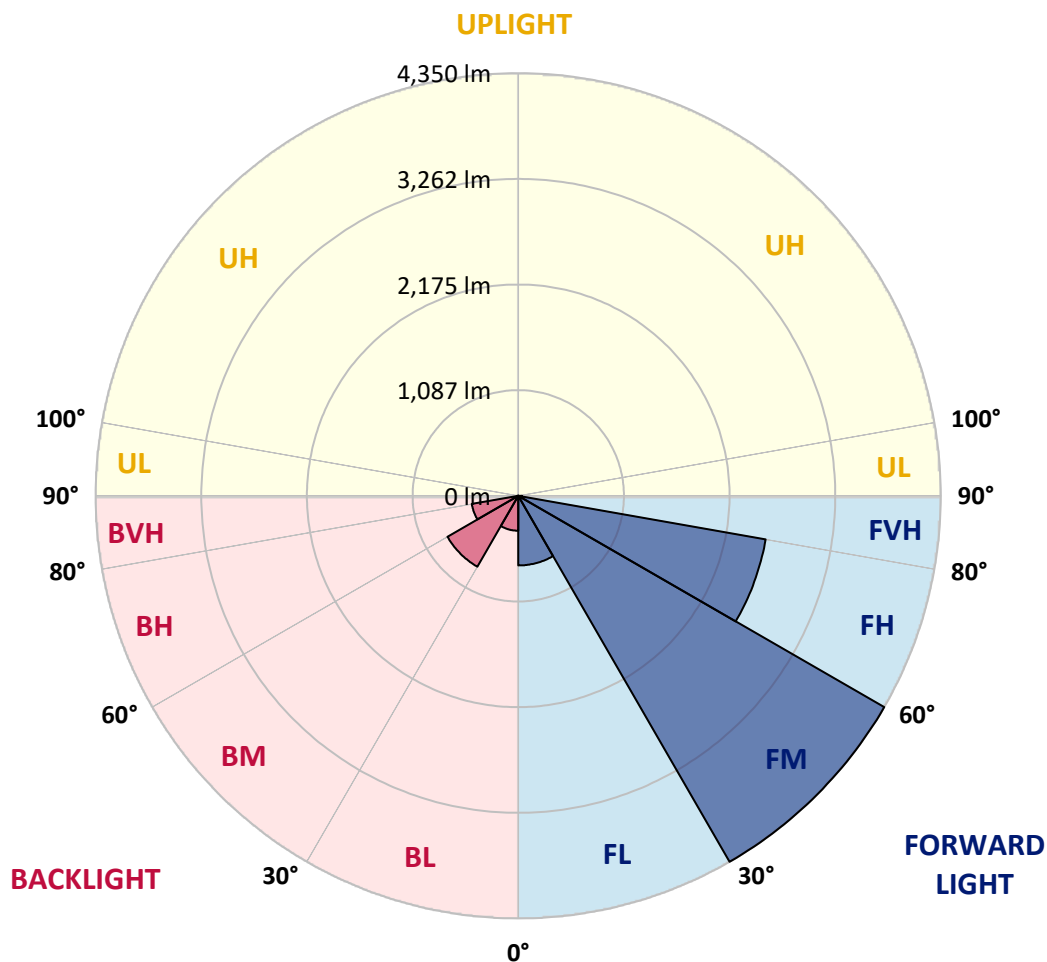


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 716.4  | 7.6       |                         |      |         |
| FM (30°-60°)   | 4349.5 | 46.3      |                         |      |         |
| FH (60°-80°)   | 2585.5 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 38.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 359.3  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 841.9  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 485.5  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.4   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8  |
| 2.5°  | 1644.3 | 1653.8 | 1648.4 | 1645.7 | 1641.0 | 1634.2 | 1628.8 | 1611.9 | 1594.3 | 1582.8  |
| 5°    | 1677.5 | 1686.9 | 1686.3 | 1689.0 | 1692.3 | 1694.4 | 1693.0 | 1674.1 | 1649.1 | 1629.5  |
| 7.5°  | 1649.1 | 1659.9 | 1668.7 | 1682.2 | 1705.9 | 1730.9 | 1743.1 | 1739.0 | 1713.3 | 1686.3  |
| 10°   | 1568.6 | 1580.1 | 1601.1 | 1632.8 | 1682.9 | 1737.0 | 1782.3 | 1803.2 | 1787.0 | 1757.3  |
| 12.5° | 1421.2 | 1432.7 | 1474.0 | 1542.9 | 1626.8 | 1720.7 | 1807.3 | 1863.4 | 1867.5 | 1837.7  |
| 15°   | 1255.6 | 1267.1 | 1311.0 | 1397.6 | 1525.3 | 1676.1 | 1820.8 | 1927.0 | 1962.8 | 1937.1  |
| 17.5° | 1152.8 | 1162.9 | 1196.1 | 1265.7 | 1398.9 | 1586.9 | 1816.1 | 1994.6 | 2076.4 | 2056.1  |
| 20°   | 1121.7 | 1130.5 | 1146.0 | 1194.7 | 1305.6 | 1494.2 | 1785.0 | 2058.1 | 2198.8 | 2187.3  |
| 22.5° | 1154.8 | 1162.9 | 1167.7 | 1189.3 | 1259.0 | 1433.4 | 1745.8 | 2123.0 | 2340.8 | 2342.1  |
| 25°   | 1231.2 | 1239.3 | 1233.9 | 1247.5 | 1277.9 | 1414.5 | 1730.9 | 2199.4 | 2519.3 | 2534.1  |
| 27.5° | 1357.0 | 1357.7 | 1344.8 | 1344.1 | 1348.9 | 1442.9 | 1746.4 | 2281.3 | 2744.4 | 2772.1  |
| 30°   | 1609.2 | 1599.0 | 1549.7 | 1496.3 | 1471.9 | 1528.0 | 1789.7 | 2377.9 | 3010.1 | 3059.5  |
| 32.5° | 1998.0 | 1983.1 | 1892.5 | 1764.7 | 1636.2 | 1665.3 | 1867.5 | 2488.2 | 3299.5 | 3388.8  |
| 35°   | 2419.9 | 2415.8 | 2321.1 | 2131.2 | 1906.7 | 1860.7 | 1993.9 | 2632.8 | 3615.3 | 3757.2  |
| 37.5° | 2812.0 | 2810.0 | 2755.9 | 2532.1 | 2258.9 | 2133.2 | 2196.7 | 2822.2 | 3953.3 | 4158.9  |
| 40°   | 3170.4 | 3176.5 | 3122.4 | 2922.2 | 2647.0 | 2482.7 | 2472.6 | 3056.1 | 4329.2 | 4596.3  |
| 42.5° | 3480.0 | 3486.8 | 3432.0 | 3284.0 | 3030.4 | 2869.5 | 2811.3 | 3342.8 | 4696.4 | 5066.2  |
| 45°   | 3690.3 | 3732.2 | 3724.1 | 3605.8 | 3423.9 | 3256.9 | 3218.4 | 3702.5 | 5114.9 | 5564.5  |
| 47.5° | 3749.8 | 3788.3 | 3849.2 | 3865.4 | 3754.5 | 3590.2 | 3636.2 | 4135.9 | 5538.2 | 6063.5  |
| 50°   | 3603.1 | 3638.9 | 3765.4 | 3933.7 | 4010.8 | 3960.1 | 4042.6 | 4600.4 | 5971.6 | 6561.1  |
| 52.5° | 3313.7 | 3350.2 | 3509.8 | 3776.2 | 4090.6 | 4250.1 | 4450.3 | 5058.1 | 6391.4 | 7032.4  |
| 55°   | 2895.2 | 2933.7 | 3138.6 | 3440.1 | 3938.4 | 4369.8 | 4790.4 | 5515.2 | 6776.2 | 7456.3  |
| 57.5° | 2325.9 | 2354.3 | 2567.3 | 2989.2 | 3555.8 | 4250.8 | 5041.2 | 6014.2 | 7138.6 | 7872.8  |
| 60°   | 1515.9 | 1540.9 | 1788.4 | 2258.9 | 2921.5 | 3853.3 | 5091.2 | 6570.6 | 7620.0 | 8414.4  |
| 62.5° | 1008.1 | 1025.0 | 1171.7 | 1517.2 | 2057.5 | 3089.9 | 4798.5 | 7014.8 | 8325.8 | 9356.9  |
| 65°   | 691.7  | 708.6  | 855.3  | 1096.0 | 1329.3 | 2043.9 | 3956.7 | 6956.0 | 8965.5 | 10105.4 |
| 67.5° | 493.6  | 507.8  | 632.2  | 859.4  | 962.1  | 1187.3 | 2682.2 | 6204.2 | 8873.5 | 10133.8 |
| 70°   | 353.6  | 361.7  | 464.5  | 669.4  | 764.7  | 713.3  | 1491.5 | 4745.1 | 7769.4 | 9357.6  |
| 72.5° | 247.5  | 250.2  | 322.5  | 509.8  | 616.0  | 520.6  | 709.9  | 3163.6 | 5876.2 | 7344.8  |
| 75°   | 167.7  | 171.1  | 217.0  | 373.9  | 494.2  | 397.6  | 375.9  | 1696.4 | 3449.6 | 4065.6  |
| 77.5° | 102.8  | 104.1  | 140.0  | 255.6  | 369.8  | 302.9  | 242.1  | 718.7  | 1334.7 | 1310.3  |
| 80°   | 58.1   | 58.1   | 89.2   | 158.9  | 252.2  | 195.4  | 169.7  | 305.6  | 422.6  | 371.2   |
| 82.5° | 32.5   | 33.1   | 64.9   | 98.7   | 167.0  | 115.6  | 93.3   | 141.3  | 182.6  | 161.6   |
| 85°   | 13.5   | 14.9   | 39.9   | 46.7   | 79.8   | 57.5   | 37.9   | 59.5   | 67.6   | 60.2    |
| 87.5° | 1.4    | 2.0    | 12.2   | 8.8    | 9.5    | 11.5   | 5.4    | 11.5   | 9.5    | 9.5     |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1555.8 | 0°    | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 | 1555.8 |
| 1578.8 | 2.5°  | 1565.9 | 1555.8 | 1530.1 | 1500.3 | 1461.1 | 1442.2 | 1416.5 | 1398.9 | 1384.0 | 1385.4 |
| 1618.0 | 5°    | 1596.3 | 1570.6 | 1513.2 | 1441.5 | 1352.3 | 1288.7 | 1221.1 | 1174.4 | 1136.6 | 1128.5 |
| 1672.1 | 7.5°  | 1638.3 | 1597.7 | 1496.9 | 1367.8 | 1217.0 | 1102.8 | 1000.7 | 935.1  | 888.4  | 873.6  |
| 1737.6 | 10°   | 1692.3 | 1633.5 | 1476.0 | 1275.2 | 1058.1 | 912.8  | 803.2  | 751.9  | 720.1  | 709.3  |
| 1814.7 | 12.5° | 1755.2 | 1674.8 | 1448.3 | 1162.3 | 894.5  | 754.6  | 684.9  | 659.2  | 649.1  | 645.7  |
| 1909.4 | 15°   | 1834.3 | 1726.2 | 1406.3 | 1028.4 | 755.9  | 657.9  | 628.1  | 624.7  | 626.1  | 624.7  |
| 2023.0 | 17.5° | 1928.3 | 1782.3 | 1338.1 | 890.5  | 662.6  | 608.5  | 597.7  | 600.4  | 603.8  | 603.1  |
| 2150.1 | 20°   | 2031.1 | 1837.7 | 1250.8 | 768.1  | 599.0  | 573.4  | 567.3  | 570.0  | 572.7  | 571.3  |
| 2296.8 | 22.5° | 2148.1 | 1897.2 | 1154.2 | 672.7  | 556.5  | 540.9  | 534.1  | 534.8  | 534.8  | 532.1  |
| 2482.7 | 25°   | 2288.0 | 1962.8 | 1052.7 | 605.1  | 524.0  | 511.8  | 503.7  | 501.0  | 497.0  | 488.8  |
| 2708.6 | 27.5° | 2455.0 | 2032.4 | 955.4  | 557.8  | 498.3  | 486.8  | 477.3  | 470.6  | 460.4  | 446.9  |
| 2979.7 | 30°   | 2643.0 | 2117.0 | 872.9  | 528.1  | 478.0  | 466.5  | 455.7  | 445.6  | 430.7  | 413.8  |
| 3291.4 | 32.5° | 2864.1 | 2207.6 | 812.7  | 508.4  | 459.8  | 447.6  | 434.8  | 422.6  | 406.4  | 389.4  |
| 3641.6 | 35°   | 3127.8 | 2317.1 | 777.5  | 494.9  | 445.6  | 429.3  | 415.1  | 401.6  | 389.4  | 374.6  |
| 4022.3 | 37.5° | 3413.8 | 2433.4 | 766.7  | 488.2  | 436.1  | 411.1  | 394.9  | 385.4  | 384.0  | 375.3  |
| 4434.0 | 40°   | 3726.8 | 2571.3 | 774.8  | 484.1  | 426.0  | 393.5  | 375.9  | 373.9  | 377.3  | 361.7  |
| 4874.2 | 42.5° | 4058.1 | 2734.9 | 788.4  | 479.4  | 411.8  | 375.9  | 359.0  | 359.0  | 356.3  | 334.7  |
| 5339.4 | 45°   | 4416.5 | 2923.6 | 801.9  | 467.9  | 394.9  | 358.3  | 345.5  | 340.8  | 329.3  | 308.3  |
| 5807.3 | 47.5° | 4777.5 | 3115.6 | 812.0  | 446.9  | 374.6  | 343.5  | 332.0  | 321.2  | 304.3  | 285.3  |
| 6266.4 | 50°   | 5120.3 | 3288.0 | 801.2  | 415.8  | 351.6  | 329.3  | 317.1  | 302.2  | 284.0  | 271.1  |
| 6701.1 | 52.5° | 5426.6 | 3437.4 | 755.2  | 379.3  | 327.2  | 314.4  | 303.6  | 288.0  | 273.2  | 259.6  |
| 7093.3 | 55°   | 5693.0 | 3558.5 | 674.1  | 344.8  | 305.6  | 301.6  | 290.7  | 271.1  | 250.8  | 239.3  |
| 7482.0 | 57.5° | 5948.6 | 3650.4 | 572.7  | 316.4  | 286.0  | 287.4  | 271.1  | 253.5  | 234.6  | 222.4  |
| 8006.0 | 60°   | 6288.7 | 3773.5 | 469.9  | 290.1  | 265.0  | 269.1  | 251.5  | 238.7  | 215.0  | 199.5  |
| 8904.6 | 62.5° | 6832.3 | 3964.8 | 373.2  | 257.6  | 240.7  | 242.1  | 234.6  | 219.1  | 190.7  | 172.4  |
| 9570.6 | 65°   | 7263.6 | 3894.5 | 294.1  | 222.4  | 213.0  | 215.0  | 215.0  | 198.1  | 167.7  | 146.7  |
| 9606.4 | 67.5° | 7215.0 | 3334.7 | 234.6  | 188.0  | 186.6  | 188.0  | 192.7  | 178.5  | 148.7  | 131.8  |
| 8874.9 | 70°   | 6646.3 | 2652.5 | 188.0  | 156.2  | 162.3  | 158.9  | 172.4  | 162.9  | 133.9  | 117.0  |
| 6880.3 | 72.5° | 5423.2 | 1910.7 | 143.3  | 129.1  | 124.4  | 129.8  | 155.5  | 146.7  | 111.6  | 92.6   |
| 3644.3 | 75°   | 3169.0 | 1019.6 | 106.8  | 102.1  | 89.9   | 108.2  | 137.9  | 125.1  | 85.2   | 68.3   |
| 1117.0 | 77.5° | 1031.8 | 355.6  | 78.4   | 75.1   | 66.9   | 87.2   | 117.6  | 105.5  | 69.6   | 54.1   |
| 327.2  | 80°   | 276.5  | 107.5  | 53.4   | 49.4   | 43.3   | 64.9   | 93.3   | 83.8   | 50.0   | 35.2   |
| 140.6  | 82.5° | 110.9  | 45.3   | 31.1   | 27.7   | 23.7   | 44.6   | 73.7   | 67.6   | 37.2   | 22.3   |
| 43.9   | 85°   | 35.8   | 14.9   | 11.5   | 8.8    | 10.8   | 27.7   | 43.9   | 46.0   | 26.4   | 11.5   |
| 6.8    | 87.5° | 4.7    | 2.0    | 2.0    | 2.7    | 2.0    | 4.7    | 13.5   | 12.8   | 7.4    | 1.4    |
| 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>  |
|--------------|
| 1555.8       |
| 1371.9       |
| 1110.2       |
| 858.7        |
| 701.1        |
| 643.7        |
| 624.1        |
| 601.8        |
| 570.7        |
| 530.8        |
| 487.5        |
| 445.6        |
| 412.4        |
| 390.1        |
| 373.2        |
| 374.6        |
| 362.4        |
| 334.7        |
| 307.6        |
| 284.6        |
| 269.1        |
| 258.3        |
| 238.0        |
| 221.1        |
| 197.4        |
| 171.1        |
| 144.7        |
| <i>129.1</i> |
| 114.9        |
| 90.6         |
| 66.3         |
| 52.1         |
| 34.5         |
| 22.3         |
| 8.8          |
| 0.0          |
| 0.0          |

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