

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: P949687

Luminaire Tested: **GLAN-SB4B-840-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21456 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 147  
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



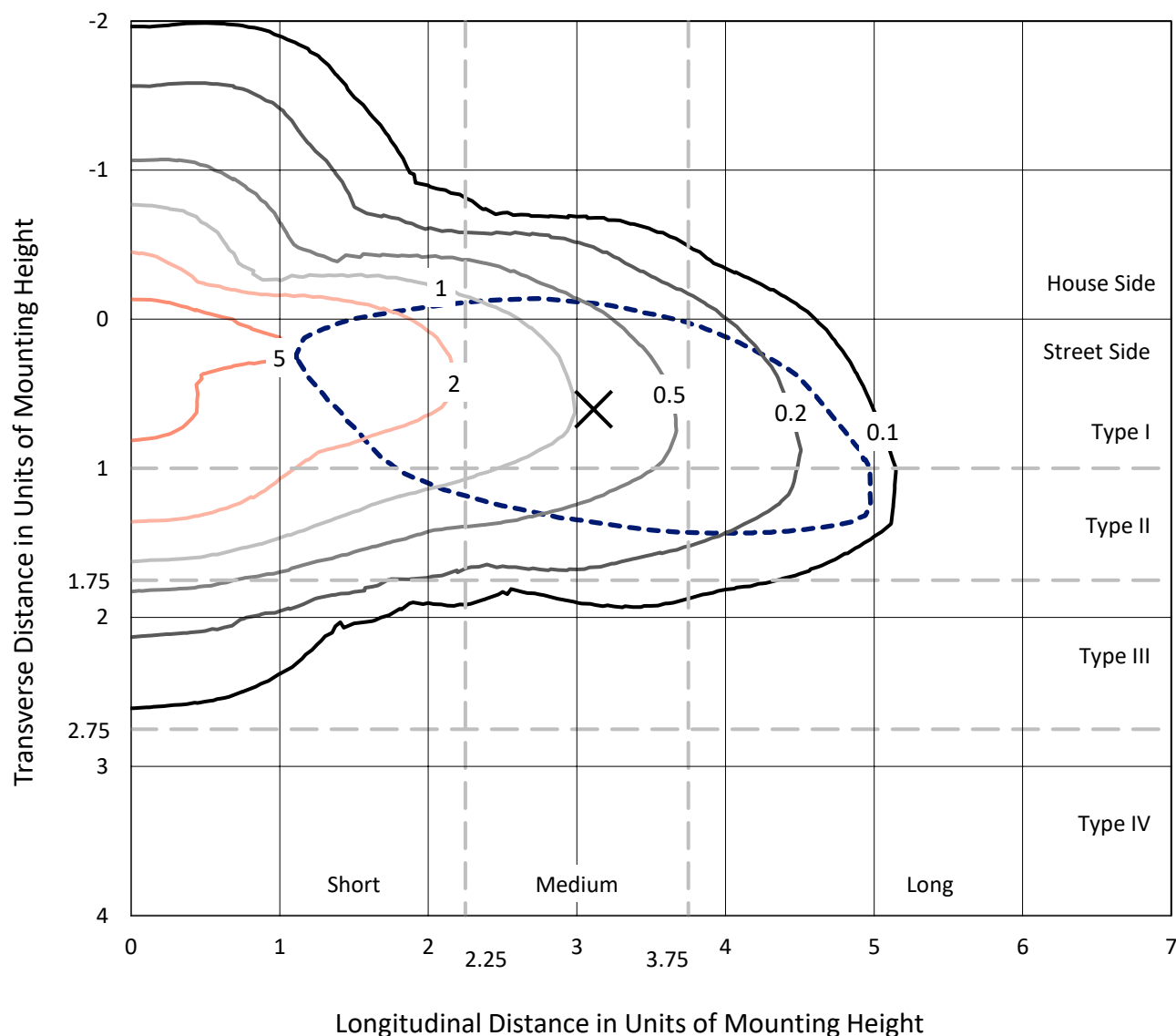
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

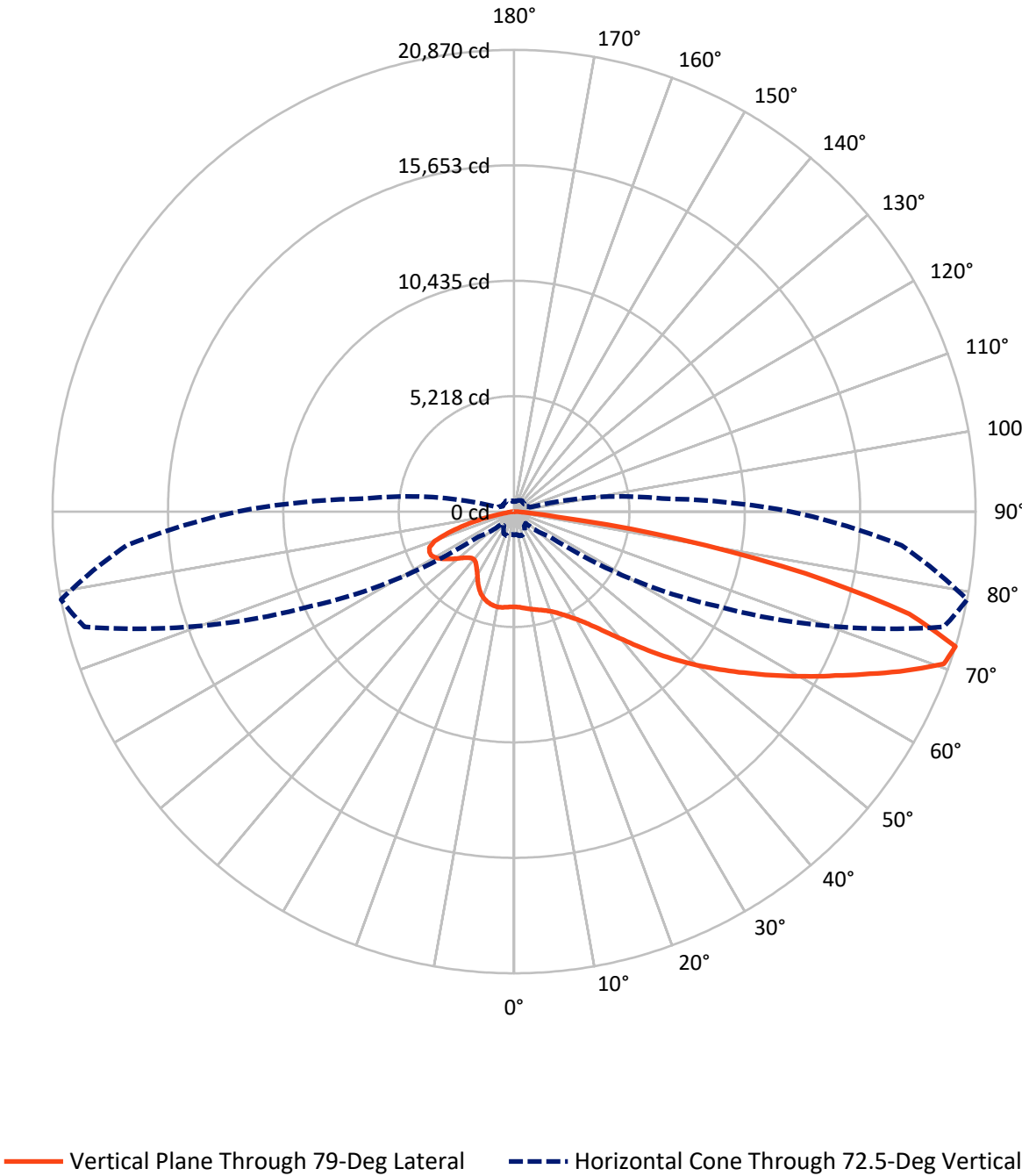
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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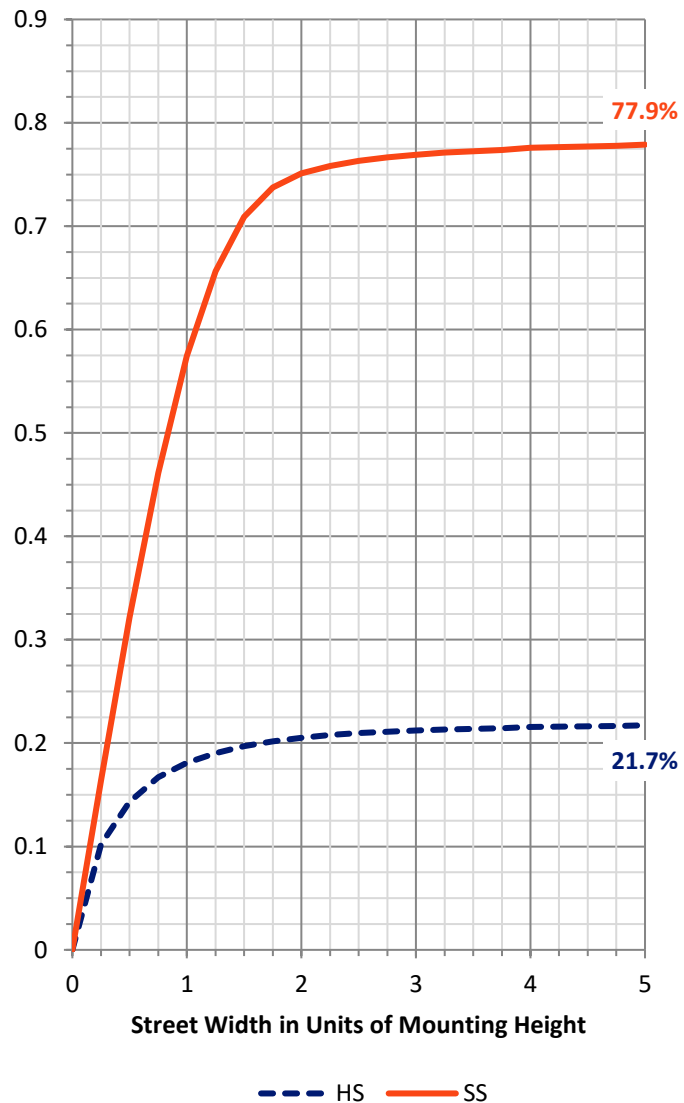
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4721.5   | 0.0    | 4721.5  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 16734.5  | 0.0    | 16734.5 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 21456.0  | 0.0    | 21456.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 391.0   | 1.8       |
| 10°-20°   | 1022.2  | 4.8       |
| 20°-30°   | 1649.4  | 7.7       |
| 30°-40°   | 2475.4  | 11.5      |
| 40°-50°   | 3511.6  | 16.4      |
| 50°-60°   | 4434.6  | 20.7      |
| 60°-70°   | 4504.0  | 21.0      |
| 70°-80°   | 3069.7  | 14.3      |
| 80°-90°   | 398.3   | 1.9       |
| 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°    | 21456.0 | 100.0     |
| 0°-180°   | 21456.0 | 100.0     |

**Coefficient of Utilization**



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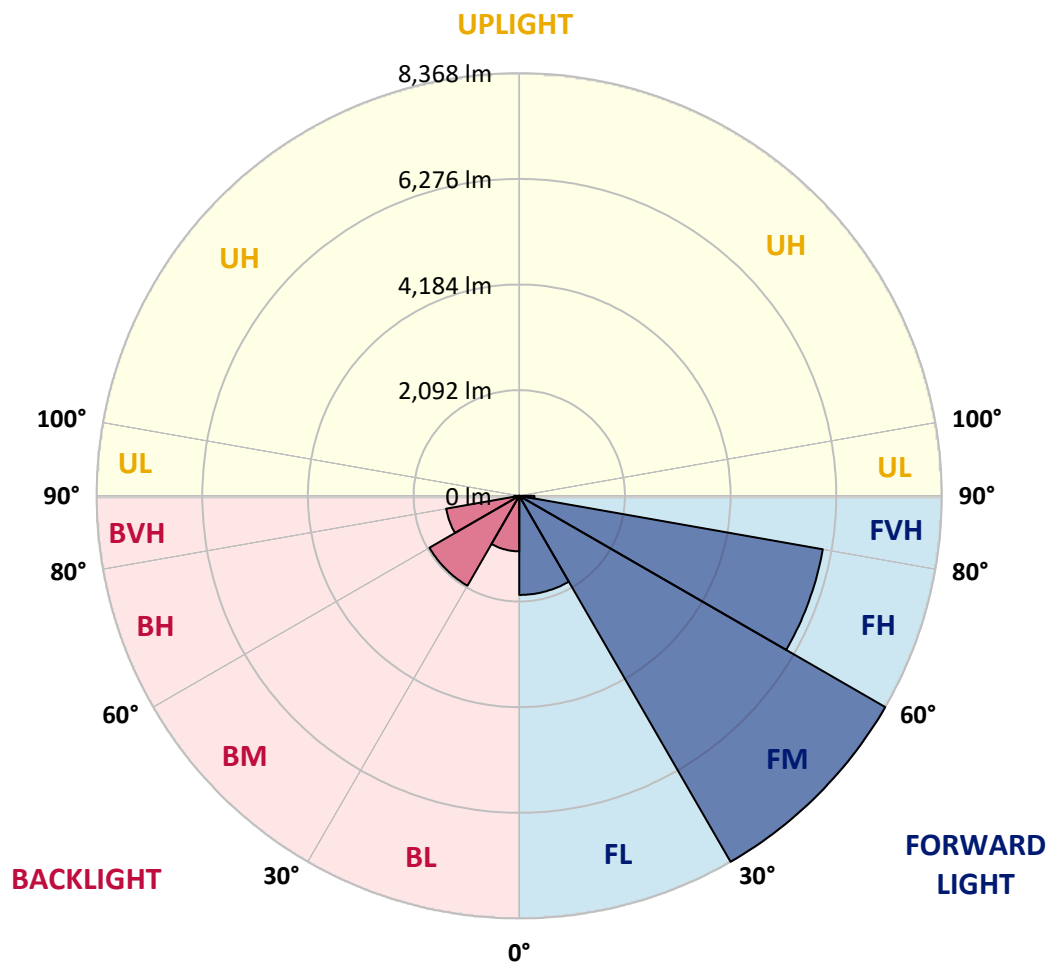
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1962.7 | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 8368.3 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 6103.5 | 28.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 300.0  | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1099.8 | 5.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2053.4 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1470.1 | 6.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 98.2   | 0.5       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1  | 4307.1  | 4307.1  |
| 2.5°  | 4309.4 | 4288.9 | 4301.4 | 4296.9 | 4302.5 | 4309.4 | 4311.6 | 4315.0  | 4326.4  | 4325.2  |
| 5°    | 4300.3 | 4279.8 | 4296.9 | 4291.2 | 4306.0 | 4321.8 | 4335.5 | 4347.9  | 4366.1  | 4374.0  |
| 7.5°  | 4281.0 | 4267.4 | 4284.4 | 4301.4 | 4328.7 | 4352.5 | 4371.8 | 4400.2  | 4426.3  | 4430.8  |
| 10°   | 4168.6 | 4158.4 | 4198.1 | 4242.4 | 4317.3 | 4382.0 | 4424.0 | 4456.9  | 4485.3  | 4489.8  |
| 12.5° | 4051.7 | 4039.2 | 4083.5 | 4143.7 | 4265.1 | 4382.0 | 4470.5 | 4513.6  | 4538.6  | 4553.4  |
| 15°   | 4032.4 | 4022.2 | 4047.2 | 4099.4 | 4200.4 | 4351.4 | 4502.3 | 4581.7  | 4603.3  | 4620.3  |
| 17.5° | 4125.5 | 4106.2 | 4116.4 | 4134.6 | 4193.6 | 4323.0 | 4527.3 | 4658.9  | 4691.8  | 4710.0  |
| 20°   | 4341.1 | 4313.9 | 4298.0 | 4261.7 | 4251.5 | 4327.5 | 4525.0 | 4752.0  | 4795.1  | 4817.8  |
| 22.5° | 4628.3 | 4610.1 | 4576.1 | 4484.1 | 4384.3 | 4383.1 | 4568.1 | 4871.2  | 4951.7  | 4973.3  |
| 25°   | 4975.6 | 4948.3 | 4905.2 | 4780.4 | 4588.6 | 4493.2 | 4640.8 | 5023.2  | 5158.3  | 5164.0  |
| 27.5° | 5375.1 | 5334.2 | 5275.2 | 5110.6 | 4851.9 | 4665.7 | 4752.0 | 5198.0  | 5395.5  | 5393.2  |
| 30°   | 5796.1 | 5755.3 | 5692.8 | 5493.1 | 5167.4 | 4898.4 | 4906.3 | 5386.4  | 5677.0  | 5664.5  |
| 32.5° | 6103.7 | 6073.1 | 6060.6 | 5906.2 | 5530.6 | 5173.0 | 5083.4 | 5595.2  | 6024.2  | 6012.9  |
| 35°   | 6339.8 | 6300.0 | 6314.8 | 6236.5 | 5926.6 | 5480.6 | 5300.2 | 5843.8  | 6446.4  | 6445.3  |
| 37.5° | 6573.6 | 6538.4 | 6550.9 | 6498.7 | 6293.2 | 5871.0 | 5564.6 | 6148.0  | 6969.7  | 6994.6  |
| 40°   | 6786.9 | 6749.5 | 6799.4 | 6750.6 | 6578.1 | 6286.4 | 5865.4 | 6491.8  | 7575.7  | 7623.4  |
| 42.5° | 6915.2 | 6885.7 | 6968.5 | 6969.7 | 6825.5 | 6637.1 | 6195.6 | 6870.9  | 8277.1  | 8383.8  |
| 45°   | 6959.4 | 6949.2 | 7074.1 | 7100.2 | 7044.6 | 6840.3 | 6493.0 | 7284.0  | 9033.0  | 9223.6  |
| 47.5° | 6911.8 | 6892.5 | 7065.0 | 7161.5 | 7205.7 | 6935.6 | 6739.3 | 7731.2  | 9804.7  | 10083.9 |
| 50°   | 6671.2 | 6633.7 | 6890.2 | 7093.4 | 7251.1 | 6998.0 | 6987.8 | 8247.6  | 10682.0 | 10987.3 |
| 52.5° | 6238.8 | 6210.4 | 6502.1 | 6855.0 | 7151.2 | 7028.7 | 7267.0 | 8811.7  | 11515.1 | 11910.0 |
| 55°   | 5686.0 | 5648.6 | 5969.8 | 6430.6 | 6902.7 | 7018.5 | 7546.2 | 9442.7  | 12497.9 | 12898.6 |
| 57.5° | 4809.9 | 4735.0 | 5141.3 | 5686.0 | 6497.5 | 7006.0 | 7836.7 | 10070.3 | 13496.7 | 13976.8 |
| 60°   | 3531.9 | 3420.7 | 3918.9 | 4564.7 | 5705.3 | 6884.5 | 8196.5 | 10774.0 | 14695.2 | 15127.6 |
| 62.5° | 2056.5 | 1991.8 | 2317.5 | 2920.2 | 4300.3 | 6169.5 | 8398.5 | 11592.3 | 15873.2 | 16327.2 |
| 65°   | 1596.9 | 1578.7 | 1607.1 | 1653.6 | 2393.6 | 4619.2 | 7775.5 | 12390.1 | 17371.4 | 17689.1 |
| 67.5° | 1460.7 | 1447.0 | 1459.5 | 1372.1 | 1214.4 | 2572.9 | 6151.4 | 12592.1 | 18976.2 | 19169.1 |
| 70°   | 1298.4 | 1282.5 | 1323.3 | 1248.4 | 955.6  | 1170.1 | 3974.6 | 11859.0 | 20253.0 | 20615.0 |
| 72.5° | 1057.8 | 1039.6 | 1134.9 | 1100.9 | 804.7  | 751.3  | 1996.4 | 10116.8 | 20119.0 | 20870.4 |
| 75°   | 812.6  | 802.4  | 915.9  | 944.3  | 656.0  | 591.3  | 957.9  | 7520.1  | 17705.0 | 18462.0 |
| 77.5° | 631.0  | 623.1  | 681.0  | 784.2  | 528.9  | 458.5  | 589.0  | 4770.1  | 13342.3 | 13475.1 |
| 80°   | 473.3  | 450.6  | 503.9  | 607.2  | 412.0  | 334.8  | 399.5  | 2781.7  | 8433.7  | 7644.9  |
| 82.5° | 296.2  | 284.9  | 329.1  | 405.2  | 290.5  | 230.4  | 259.9  | 1536.7  | 3379.8  | 1990.7  |
| 85°   | 169.1  | 164.6  | 179.3  | 231.5  | 157.8  | 132.8  | 148.7  | 678.7   | 617.4   | 424.5   |
| 87.5° | 68.1   | 65.8   | 81.7   | 103.3  | 57.9   | 48.8   | 52.2   | 163.4   | 136.2   | 126.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4307.1  | 0°    | 4307.1  | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 | 4307.1 |
| 4324.1  | 2.5°  | 4319.6  | 4319.6 | 4303.7 | 4278.7 | 4250.3 | 4232.2 | 4202.7 | 4194.7 | 4164.1 | 4155.0 |
| 4362.7  | 5°    | 4371.8  | 4362.7 | 4313.9 | 4243.5 | 4147.1 | 4058.5 | 3960.9 | 3899.6 | 3813.4 | 3782.7 |
| 4438.7  | 7.5°  | 4437.6  | 4412.6 | 4328.7 | 4174.3 | 3972.3 | 3773.7 | 3567.1 | 3410.5 | 3260.7 | 3207.3 |
| 4501.2  | 10°   | 4497.8  | 4462.6 | 4319.6 | 4049.5 | 3699.9 | 3356.0 | 3026.9 | 2796.5 | 2621.7 | 2550.2 |
| 4570.4  | 12.5° | 4557.9  | 4493.2 | 4259.4 | 3841.8 | 3312.9 | 2846.4 | 2495.7 | 2316.4 | 2208.6 | 2122.3 |
| 4627.1  | 15°   | 4614.7  | 4523.9 | 4166.4 | 3563.7 | 2888.4 | 2415.1 | 2156.4 | 2013.4 | 1927.1 | 1870.4 |
| 4710.0  | 17.5° | 4680.5  | 4550.0 | 4026.8 | 3210.7 | 2484.4 | 2116.7 | 1905.6 | 1819.3 | 1802.3 | 1795.5 |
| 4823.5  | 20°   | 4772.4  | 4573.8 | 3842.9 | 2815.8 | 2187.0 | 1878.3 | 1769.4 | 1761.4 | 1760.3 | 1756.9 |
| 4959.7  | 22.5° | 4871.2  | 4602.2 | 3600.0 | 2457.1 | 1933.9 | 1729.6 | 1710.4 | 1694.5 | 1684.2 | 1683.1 |
| 5124.2  | 25°   | 4988.1  | 4611.3 | 3295.9 | 2163.2 | 1718.3 | 1659.3 | 1636.6 | 1612.7 | 1605.9 | 1605.9 |
| 5311.5  | 27.5° | 5101.5  | 4580.6 | 2941.8 | 1907.8 | 1596.9 | 1594.6 | 1565.1 | 1557.1 | 1556.0 | 1559.4 |
| 5524.9  | 30°   | 5215.0  | 4522.7 | 2589.9 | 1671.8 | 1526.5 | 1526.5 | 1516.3 | 1522.0 | 1526.5 | 1537.8 |
| 5817.7  | 32.5° | 5368.3  | 4461.4 | 2296.0 | 1497.0 | 1465.2 | 1453.9 | 1464.1 | 1475.4 | 1480.0 | 1494.7 |
| 6202.4  | 35°   | 5593.0  | 4418.3 | 2062.2 | 1401.6 | 1401.6 | 1386.9 | 1392.6 | 1390.3 | 1380.1 | 1373.3 |
| 6667.8  | 37.5° | 5890.3  | 4416.0 | 1869.2 | 1357.4 | 1348.3 | 1346.0 | 1347.2 | 1332.4 | 1292.7 | 1245.0 |
| 7230.7  | 40°   | 6247.8  | 4477.3 | 1720.6 | 1326.7 | 1319.9 | 1333.6 | 1326.7 | 1287.0 | 1178.1 | 1095.2 |
| 7923.0  | 42.5° | 6727.9  | 4652.1 | 1625.2 | 1289.3 | 1309.7 | 1326.7 | 1299.5 | 1162.2 | 1088.4 | 1032.8 |
| 8711.8  | 45°   | 7293.1  | 4935.8 | 1576.4 | 1249.6 | 1290.4 | 1310.9 | 1179.2 | 1119.0 | 1060.0 | 993.1  |
| 9572.1  | 47.5° | 7933.2  | 5293.3 | 1565.1 | 1212.1 | 1247.3 | 1259.8 | 1128.1 | 1100.9 | 1033.9 | 961.3  |
| 10436.9 | 50°   | 8630.1  | 5716.7 | 1595.7 | 1167.9 | 1184.9 | 1141.7 | 1111.1 | 1086.1 | 1016.9 | 945.4  |
| 11323.3 | 52.5° | 9350.8  | 6183.1 | 1657.0 | 1107.7 | 1122.5 | 1074.8 | 1104.3 | 1082.7 | 1006.7 | 910.2  |
| 12239.2 | 55°   | 10059.0 | 6653.0 | 1716.0 | 1037.3 | 1058.9 | 1014.6 | 1085.0 | 1069.1 | 960.2  | 851.2  |
| 13216.3 | 57.5° | 10778.5 | 7120.6 | 1773.9 | 974.9  | 997.6  | 956.8  | 1054.4 | 1032.8 | 908.0  | 796.7  |
| 14283.2 | 60°   | 11526.4 | 7574.6 | 1801.1 | 914.8  | 930.6  | 903.4  | 1007.8 | 970.4  | 848.9  | 741.1  |
| 15331.9 | 62.5° | 12226.7 | 7952.5 | 1756.9 | 854.6  | 864.8  | 853.5  | 946.5  | 896.6  | 789.9  | 678.7  |
| 16424.8 | 65°   | 12929.2 | 8177.2 | 1620.7 | 795.6  | 797.9  | 792.2  | 860.3  | 817.2  | 720.7  | 624.2  |
| 17381.6 | 67.5° | 13565.9 | 8303.2 | 1403.9 | 732.0  | 726.4  | 724.1  | 779.7  | 730.9  | 653.7  | 569.7  |
| 18109.1 | 70°   | 13701.0 | 7983.2 | 1072.5 | 657.1  | 657.1  | 651.5  | 691.2  | 641.2  | 580.0  | 511.9  |
| 17588.1 | 72.5° | 12513.8 | 6715.4 | 761.5  | 572.0  | 581.1  | 569.7  | 602.7  | 560.7  | 505.0  | 459.6  |
| 15158.2 | 75°   | 10090.7 | 4924.5 | 553.8  | 484.6  | 500.5  | 481.2  | 511.9  | 482.3  | 434.7  | 433.5  |
| 10446.0 | 77.5° | 6933.3  | 3045.0 | 401.8  | 399.5  | 410.8  | 385.9  | 421.1  | 405.2  | 362.0  | 342.8  |
| 4546.6  | 80°   | 2958.8  | 1214.4 | 292.8  | 308.7  | 308.7  | 286.0  | 326.9  | 331.4  | 293.9  | 284.9  |
| 877.3   | 82.5° | 589.0   | 345.0  | 205.4  | 212.2  | 199.7  | 192.9  | 231.5  | 256.5  | 354.1  | 393.8  |
| 264.4   | 85°   | 177.1   | 127.1  | 123.7  | 115.8  | 102.1  | 103.3  | 136.2  | 257.6  | 317.8  | 181.6  |
| 87.4    | 87.5° | 48.8    | 31.8   | 32.9   | 26.1   | 21.6   | 28.4   | 46.5   | 195.2  | 106.7  | 45.4   |
| 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°   |
|--------|
| 4307.1 |
| 4169.8 |
| 3805.4 |
| 3214.1 |
| 2566.1 |
| 2150.7 |
| 1880.6 |
| 1800.0 |
| 1768.2 |
| 1695.6 |
| 1612.7 |
| 1568.5 |
| 1545.8 |
| 1507.2 |
| 1389.2 |
| 1246.2 |
| 1092.9 |
| 1030.5 |
| 988.5  |
| 955.6  |
| 937.5  |
| 903.4  |
| 845.5  |
| 794.5  |
| 737.7  |
| 677.6  |
| 617.4  |
| 562.9  |
| 509.6  |
| 446.0  |
| 390.4  |
| 321.2  |
| 284.9  |
| 395.0  |
| 156.6  |
| 38.6   |
| 0.0    |