

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: P943708

Luminaire Tested: **GALN-SB8B-760-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-760-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

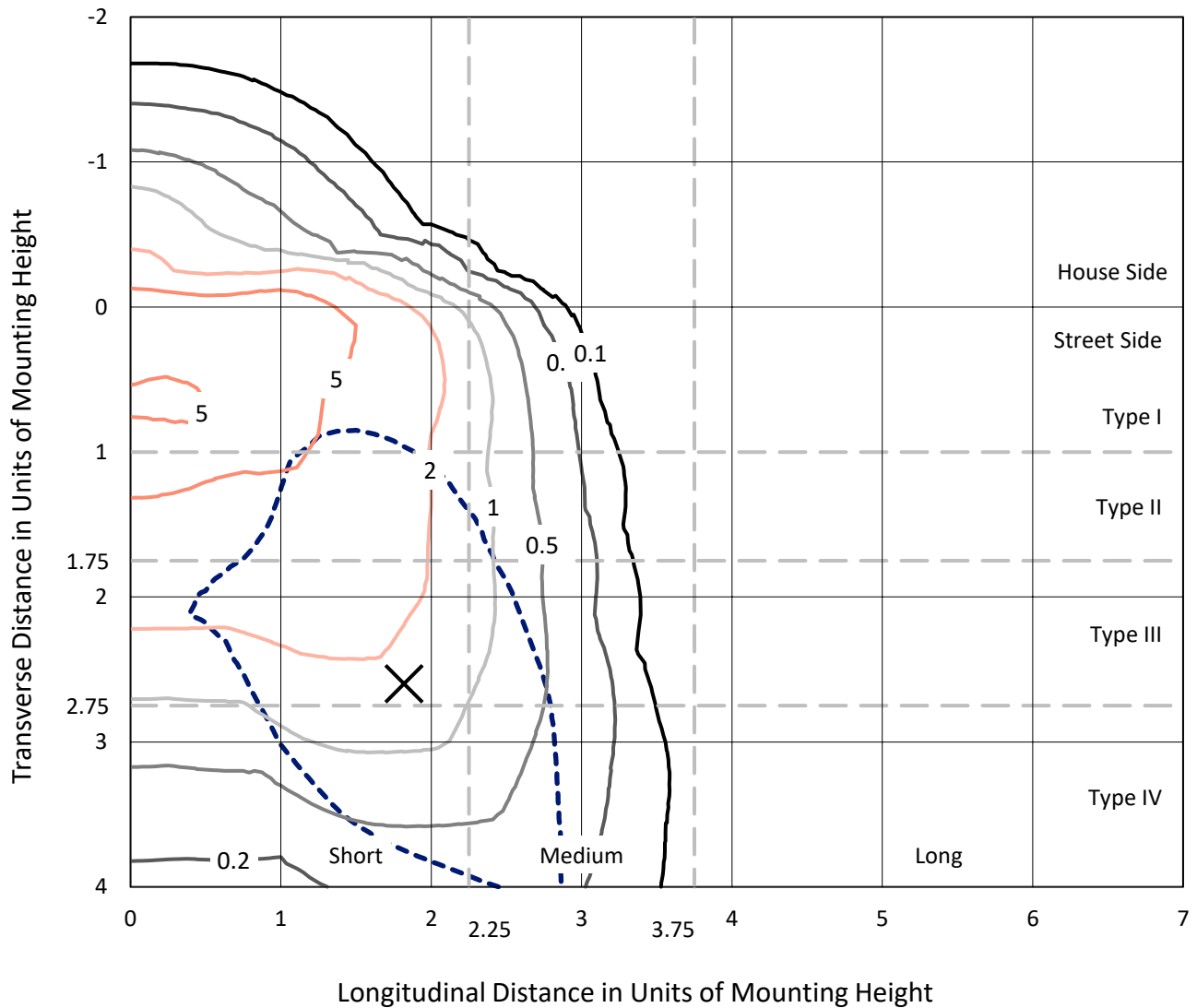
Lumens per Lamp: N/A  
Luminaire Lumens: 36474 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

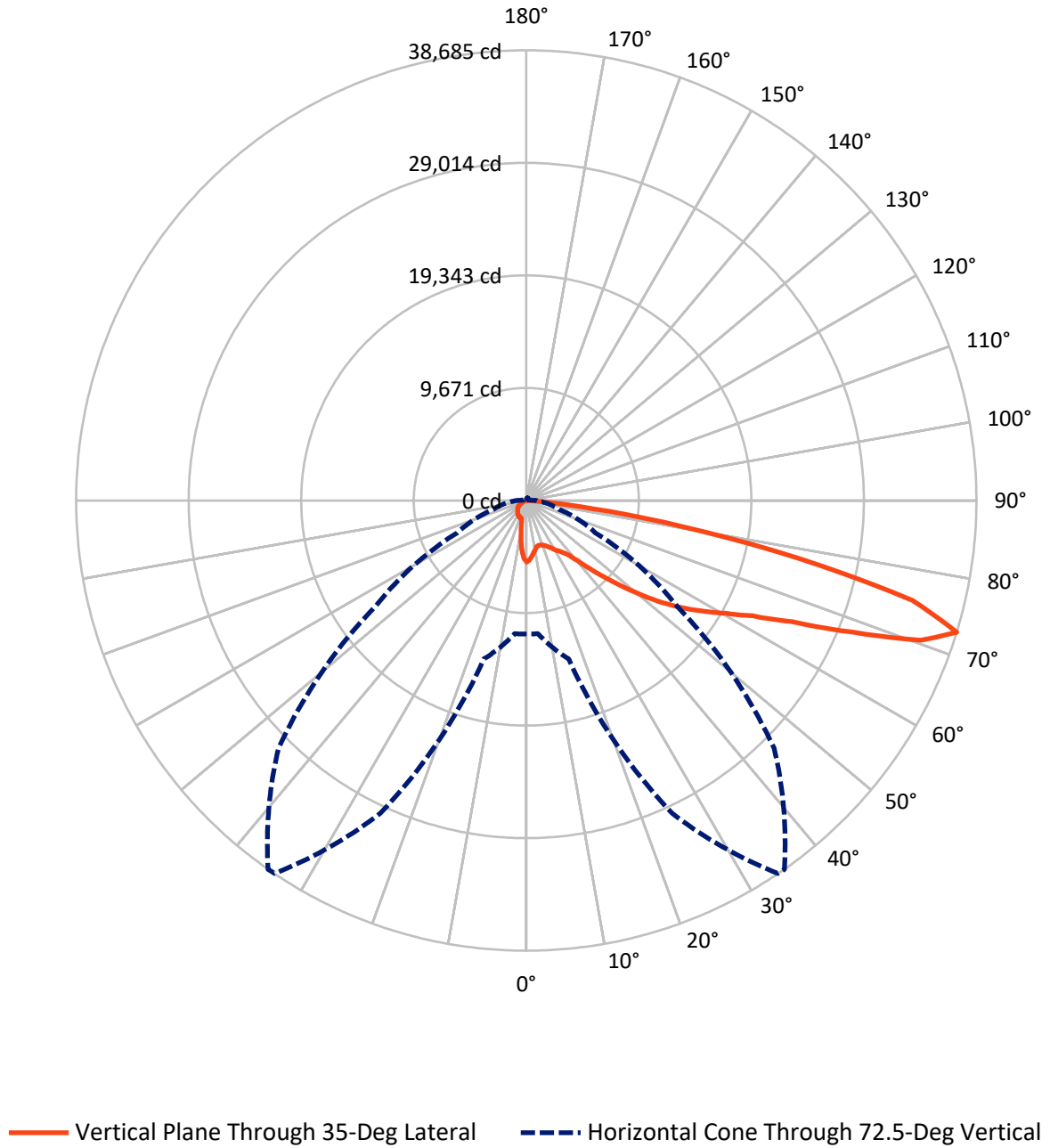
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - 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    | 4105.0   | 0.0    | 4105.0  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 32369.0  | 0.0    | 32369.0 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 36474.0  | 0.0    | 36474.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 434.4   | 1.2       |
| 10°-20°   | 1016.2  | 2.8       |
| 20°-30°   | 1650.8  | 4.5       |
| 30°-40°   | 2754.4  | 7.6       |
| 40°-50°   | 5211.3  | 14.3      |
| 50°-60°   | 8280.8  | 22.7      |
| 60°-70°   | 10243.9 | 28.1      |
| 70°-80°   | 6367.7  | 17.5      |
| 80°-90°   | 514.6   | 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°    | 36474.0 | 100.0     |
| 0°-180°   | 36474.0 | 100.0     |

**Coefficient of Utilization**



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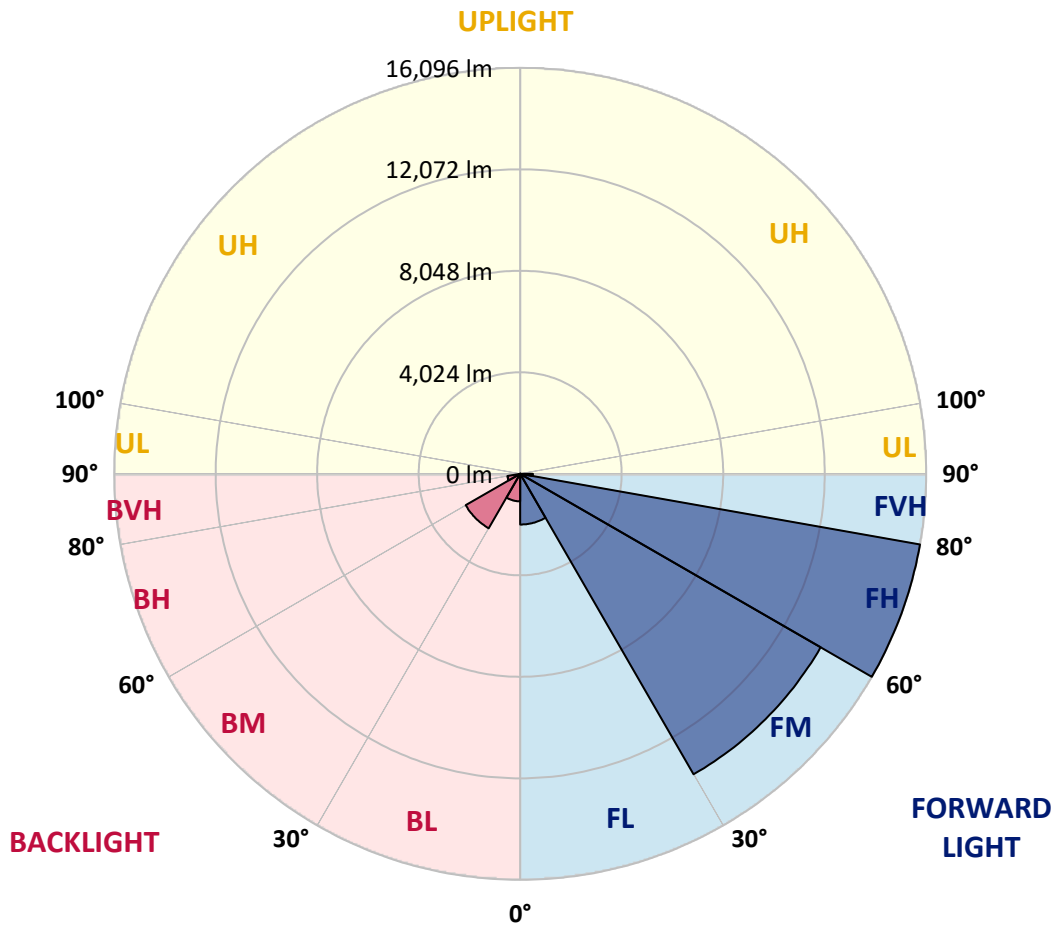
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2010.6  | 5.5       |                         |      |         |
| FM (30°-60°)   | 13754.3 | 37.7      |                         |      |         |
| FH (60°-80°)   | 16096.4 | 44.1      |                         |      | G5      |
| FVH (80°-90°)  | 507.6   | 1.4       |                         |      | G4/750  |
| BL (0°-30°)    | 1090.8  | 3.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2492.1  | 6.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 515.1   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.0     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  | 5286.3  |
| 2.5°  | 5051.1  | 5093.9  | 5101.9  | 5115.3  | 5115.3  | 5131.3  | 5158.0  | 5195.4  | 5256.9  | 5289.0  |
| 5°    | 4655.6  | 4687.7  | 4727.7  | 4759.8  | 4821.3  | 4829.3  | 4933.5  | 5035.1  | 5176.7  | 5283.6  |
| 7.5°  | 4257.4  | 4294.8  | 4348.2  | 4425.7  | 4505.9  | 4530.0  | 4687.7  | 4858.7  | 5083.2  | 5283.6  |
| 10°   | 3976.8  | 3979.4  | 4027.5  | 4105.0  | 4233.3  | 4262.7  | 4455.1  | 4698.3  | 4979.0  | 5251.6  |
| 12.5° | 3819.1  | 3837.8  | 3859.2  | 3918.0  | 4040.9  | 4059.6  | 4265.4  | 4551.4  | 4874.7  | 5232.9  |
| 15°   | 3819.1  | 3832.4  | 3845.8  | 3875.2  | 3974.1  | 3990.1  | 4171.9  | 4457.8  | 4821.3  | 5240.9  |
| 17.5° | 3859.2  | 3880.5  | 3869.9  | 3904.6  | 4008.8  | 4019.5  | 4179.9  | 4431.1  | 4818.6  | 5291.7  |
| 20°   | 3955.4  | 3971.4  | 3950.0  | 3971.4  | 4075.6  | 4097.0  | 4262.7  | 4481.9  | 4864.0  | 5379.8  |
| 22.5° | 4107.7  | 4115.7  | 4064.9  | 4081.0  | 4187.9  | 4214.6  | 4407.0  | 4626.2  | 4973.6  | 5521.5  |
| 25°   | 4300.1  | 4316.2  | 4238.7  | 4257.4  | 4358.9  | 4391.0  | 4612.8  | 4842.7  | 5147.3  | 5716.6  |
| 27.5° | 4522.0  | 4530.0  | 4463.2  | 4460.5  | 4591.4  | 4636.9  | 4861.4  | 5109.9  | 5379.8  | 5962.5  |
| 30°   | 4775.8  | 4799.9  | 4735.8  | 4725.1  | 4890.8  | 4928.2  | 5150.0  | 5438.6  | 5721.9  | 6331.3  |
| 32.5° | 4976.3  | 4995.0  | 4957.6  | 4984.3  | 5152.7  | 5182.1  | 5500.1  | 5903.7  | 6259.1  | 6855.1  |
| 35°   | 5264.9  | 5275.6  | 5190.1  | 5238.2  | 5430.6  | 5505.5  | 5978.5  | 6555.8  | 6935.3  | 7512.5  |
| 37.5° | 6309.9  | 6309.9  | 5946.4  | 5708.6  | 5893.0  | 5959.8  | 6633.3  | 7376.2  | 7769.1  | 8394.5  |
| 40°   | 7755.7  | 7731.7  | 7199.9  | 6713.4  | 6689.4  | 6820.3  | 7566.0  | 8410.5  | 8846.1  | 9452.8  |
| 42.5° | 9297.8  | 9260.4  | 8536.1  | 8055.1  | 7974.9  | 8020.3  | 8643.0  | 9685.3  | 10129.0 | 10743.7 |
| 45°   | 10666.2 | 10655.5 | 9992.7  | 9345.9  | 9201.6  | 9345.9  | 9987.3  | 11176.6 | 11494.6 | 12141.4 |
| 47.5° | 11812.7 | 11812.7 | 11328.9 | 10906.7 | 10831.8 | 10917.4 | 11807.3 | 12830.9 | 12801.5 | 13630.0 |
| 50°   | 13132.9 | 13122.2 | 12662.5 | 12480.8 | 12558.3 | 12678.6 | 13902.6 | 14573.4 | 14153.8 | 15091.9 |
| 52.5° | 14057.6 | 14121.8 | 13964.1 | 13934.7 | 14330.2 | 14538.7 | 16030.0 | 16278.5 | 15364.5 | 16478.9 |
| 55°   | 14789.9 | 14864.7 | 15046.5 | 15252.2 | 16013.9 | 16286.5 | 18090.5 | 17895.4 | 16377.4 | 17681.6 |
| 57.5° | 15826.8 | 15719.9 | 16000.6 | 16406.8 | 17638.8 | 17967.6 | 20086.9 | 19421.4 | 17192.5 | 18657.1 |
| 60°   | 17085.6 | 17101.7 | 17149.8 | 17662.9 | 19261.1 | 19683.3 | 22053.9 | 20864.6 | 17716.3 | 19255.7 |
| 62.5° | 18598.3 | 18622.3 | 18721.2 | 19509.6 | 21439.2 | 21837.4 | 24149.2 | 22045.9 | 17956.9 | 19087.4 |
| 65°   | 18494.1 | 18595.6 | 19699.4 | 22396.0 | 24750.5 | 25143.4 | 26594.6 | 22874.4 | 17593.4 | 17548.0 |
| 67.5° | 16847.8 | 17013.5 | 18860.2 | 25843.6 | 29742.8 | 30181.1 | 29550.4 | 23037.4 | 16024.6 | 13646.0 |
| 70°   | 14688.3 | 14747.1 | 16968.0 | 28943.7 | 35523.5 | 35967.2 | 32196.2 | 21244.1 | 12160.1 | 7611.4  |
| 72.5° | 11470.6 | 11484.0 | 14089.7 | 29662.6 | 38661.1 | 38685.2 | 30119.6 | 15770.7 | 6539.7  | 2923.8  |
| 75°   | 8194.0  | 8113.9  | 9436.8  | 24055.6 | 34013.6 | 34286.2 | 22580.4 | 7397.6  | 2498.8  | 1381.7  |
| 77.5° | 4393.7  | 4481.9  | 5339.8  | 14266.1 | 23497.1 | 23962.1 | 12320.5 | 2132.7  | 1272.1  | 940.7   |
| 80°   | 1357.7  | 1432.5  | 2188.8  | 6531.7  | 13309.3 | 13589.9 | 4567.4  | 948.8   | 887.3   | 670.8   |
| 82.5° | 427.6   | 443.6   | 1020.9  | 2744.7  | 5524.2  | 5652.4  | 1322.9  | 537.2   | 606.7   | 443.6   |
| 85°   | 122.9   | 125.6   | 454.3   | 1023.6  | 1365.7  | 1392.4  | 371.5   | 208.5   | 347.4   | 275.3   |
| 87.5° | 13.4    | 42.8    | 171.0   | 171.0   | 120.3   | 117.6   | 40.1    | 45.4    | 98.9    | 34.7    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5286.3  | 0°    | 5286.3  | 5286.3  | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 |
| 5310.4  | 2.5°  | 5297.0  | 5299.7  | 5264.9 | 5206.1 | 5142.0 | 5088.5 | 5021.7 | 4968.3 | 4930.9 | 4920.2 |
| 5358.5  | 5°    | 5334.4  | 5315.7  | 5216.8 | 5037.8 | 4824.0 | 4639.5 | 4433.8 | 4270.7 | 4163.8 | 4118.4 |
| 5409.2  | 7.5°  | 5390.5  | 5337.1  | 5120.6 | 4767.8 | 4358.9 | 3995.5 | 3626.7 | 3340.7 | 3159.0 | 3068.1 |
| 5457.3  | 10°   | 5438.6  | 5331.7  | 4960.3 | 4377.6 | 3752.3 | 3201.7 | 2704.6 | 2359.9 | 2167.4 | 2076.6 |
| 5513.5  | 12.5° | 5484.1  | 5329.1  | 4751.8 | 3915.3 | 3068.1 | 2394.6 | 1932.3 | 1761.2 | 1707.8 | 1689.1 |
| 5604.3  | 15°   | 5569.6  | 5337.1  | 4489.9 | 3386.1 | 2386.6 | 1809.3 | 1640.9 | 1638.3 | 1649.0 | 1643.6 |
| 5743.3  | 17.5° | 5687.2  | 5345.1  | 4193.2 | 2824.9 | 1841.4 | 1595.5 | 1587.5 | 1611.5 | 1627.6 | 1619.6 |
| 5917.0  | 20°   | 5839.5  | 5377.2  | 3877.9 | 2269.0 | 1582.2 | 1542.1 | 1560.8 | 1582.2 | 1595.5 | 1582.2 |
| 6149.5  | 22.5° | 6053.3  | 5433.3  | 3533.1 | 1822.7 | 1499.3 | 1510.0 | 1526.0 | 1550.1 | 1563.4 | 1544.7 |
| 6446.2  | 25°   | 6315.2  | 5521.5  | 3193.7 | 1584.8 | 1459.2 | 1472.6 | 1496.6 | 1523.4 | 1539.4 | 1520.7 |
| 6820.3  | 27.5° | 6654.7  | 5663.1  | 2881.0 | 1531.4 | 1419.1 | 1427.1 | 1461.9 | 1502.0 | 1523.4 | 1499.3 |
| 7352.2  | 30°   | 7146.4  | 5895.6  | 2611.1 | 1555.4 | 1395.1 | 1376.4 | 1424.5 | 1480.6 | 1504.6 | 1483.3 |
| 8076.4  | 32.5° | 7798.5  | 6224.4  | 2445.4 | 1592.8 | 1384.4 | 1317.6 | 1363.0 | 1435.2 | 1475.2 | 1461.9 |
| 9022.5  | 35°   | 8653.7  | 6724.1  | 2381.2 | 1635.6 | 1376.4 | 1256.1 | 1288.2 | 1365.7 | 1435.2 | 1448.5 |
| 10214.5 | 37.5° | 9690.7  | 7419.0  | 2400.0 | 1654.3 | 1352.3 | 1205.3 | 1221.4 | 1288.2 | 1379.0 | 1421.8 |
| 11556.1 | 40°   | 10869.3 | 8228.8  | 2506.9 | 1635.6 | 1325.6 | 1162.6 | 1165.2 | 1216.0 | 1296.2 | 1360.3 |
| 12999.3 | 42.5° | 12085.3 | 9174.9  | 2704.6 | 1566.1 | 1301.5 | 1125.1 | 1117.1 | 1151.9 | 1205.3 | 1250.8 |
| 14439.8 | 45°   | 13242.5 | 10147.7 | 2899.7 | 1469.9 | 1272.1 | 1087.7 | 1069.0 | 1082.4 | 1093.1 | 1111.8 |
| 15842.9 | 47.5° | 14252.7 | 10831.8 | 2843.6 | 1381.7 | 1232.0 | 1045.0 | 1012.9 | 1007.6 | 975.5  | 972.8  |
| 17096.3 | 50°   | 14950.2 | 10981.5 | 2525.6 | 1293.5 | 1173.2 | 996.9  | 946.1  | 914.0  | 857.9  | 831.2  |
| 18034.4 | 52.5° | 15172.1 | 10390.9 | 2063.2 | 1205.3 | 1077.0 | 932.7  | 860.6  | 809.8  | 740.3  | 716.2  |
| 18574.2 | 55°   | 14878.1 | 9233.7  | 1649.0 | 1098.4 | 943.4  | 847.2  | 767.0  | 700.2  | 644.1  | 614.7  |
| 18633.0 | 57.5° | 14159.2 | 7761.1  | 1304.2 | 972.8  | 801.8  | 751.0  | 670.8  | 604.0  | 555.9  | 526.5  |
| 17980.9 | 60°   | 12967.2 | 6162.9  | 1031.6 | 823.1  | 684.2  | 646.8  | 563.9  | 521.1  | 478.4  | 443.6  |
| 16297.2 | 62.5° | 11157.9 | 4399.0  | 809.8  | 652.1  | 571.9  | 529.2  | 481.1  | 449.0  | 398.2  | 350.1  |
| 13269.2 | 65°   | 8707.2  | 2691.3  | 625.4  | 478.4  | 459.7  | 438.3  | 408.9  | 379.5  | 318.0  | 269.9  |
| 8656.4  | 67.5° | 5492.1  | 1274.8  | 446.3  | 360.8  | 363.5  | 352.8  | 339.4  | 315.4  | 269.9  | 227.2  |
| 3877.9  | 70°   | 2418.7  | 617.4   | 294.0  | 275.3  | 269.9  | 269.9  | 280.6  | 272.6  | 229.8  | 189.8  |
| 1347.0  | 72.5° | 823.1   | 331.4   | 219.1  | 208.5  | 195.1  | 192.4  | 235.2  | 227.2  | 184.4  | 147.0  |
| 670.8   | 75°   | 430.3   | 221.8   | 160.4  | 149.7  | 117.6  | 141.6  | 187.1  | 176.4  | 131.0  | 96.2   |
| 443.6   | 77.5° | 280.6   | 157.7   | 109.6  | 96.2   | 66.8   | 93.5   | 139.0  | 122.9  | 77.5   | 48.1   |
| 291.3   | 80°   | 176.4   | 104.2   | 64.1   | 45.4   | 32.1   | 50.8   | 74.8   | 53.5   | 29.4   | 10.7   |
| 171.0   | 82.5° | 93.5    | 53.5    | 24.1   | 16.0   | 13.4   | 16.0   | 18.7   | 13.4   | 5.3    | 0.0    |
| 88.2    | 85°   | 37.4    | 18.7    | 8.0    | 5.3    | 2.7    | 0.0    | 5.3    | 2.7    | 0.0    | 0.0    |
| 16.0    | 87.5° | 13.4    | 2.7     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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> |
| 5286.3      |
| 4938.9      |
| 4134.4      |
| 3081.5      |
| 2079.2      |
| 1683.7      |
| 1640.9      |
| 1616.9      |
| 1579.5      |
| 1542.1      |
| 1518.0      |
| 1499.3      |
| 1480.6      |
| 1461.9      |
| 1448.5      |
| 1432.5      |
| 1381.7      |
| 1269.5      |
| 1122.5      |
| 970.1       |
| 833.8       |
| 713.6       |
| 614.7       |
| 521.1       |
| 435.6       |
| 342.1       |
| 261.9       |
| 221.8       |
| 181.7       |
| 139.0       |
| 88.2        |
| 42.8        |
| 8.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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