Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P956754

Luminaire Tested: **GALN-SB9B-760-U-T3R-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P956754 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB9B-760-U-T3R-HSS |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (9) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 45176 lumens |
| Efficiency: | N/A |
| Efficacy: | 137.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1.5' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B3 - U0 - G5 |

| | |
|---|---|
| Input Watts (W): | 329.5 |
| 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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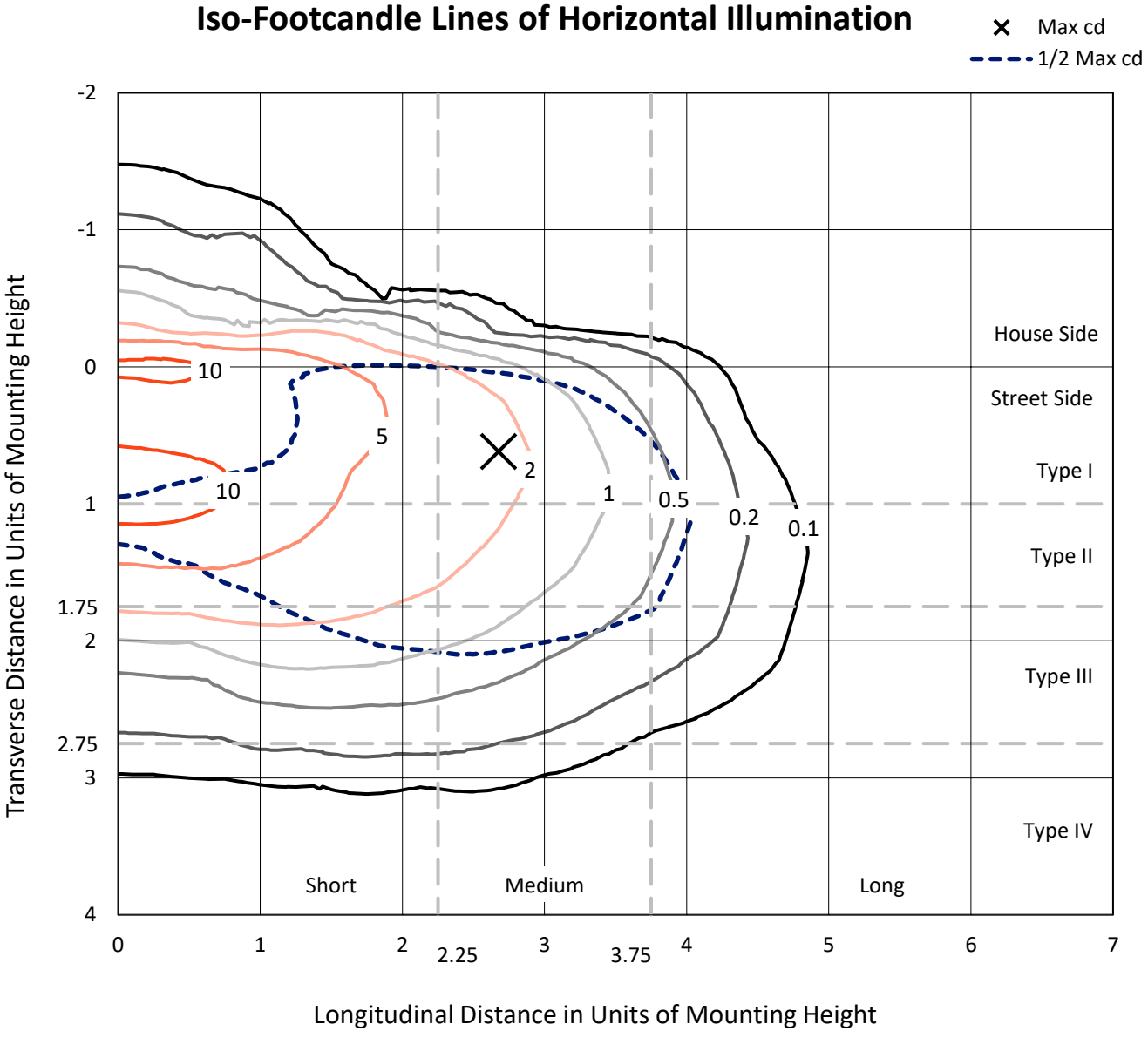
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type III - Medium - N/A

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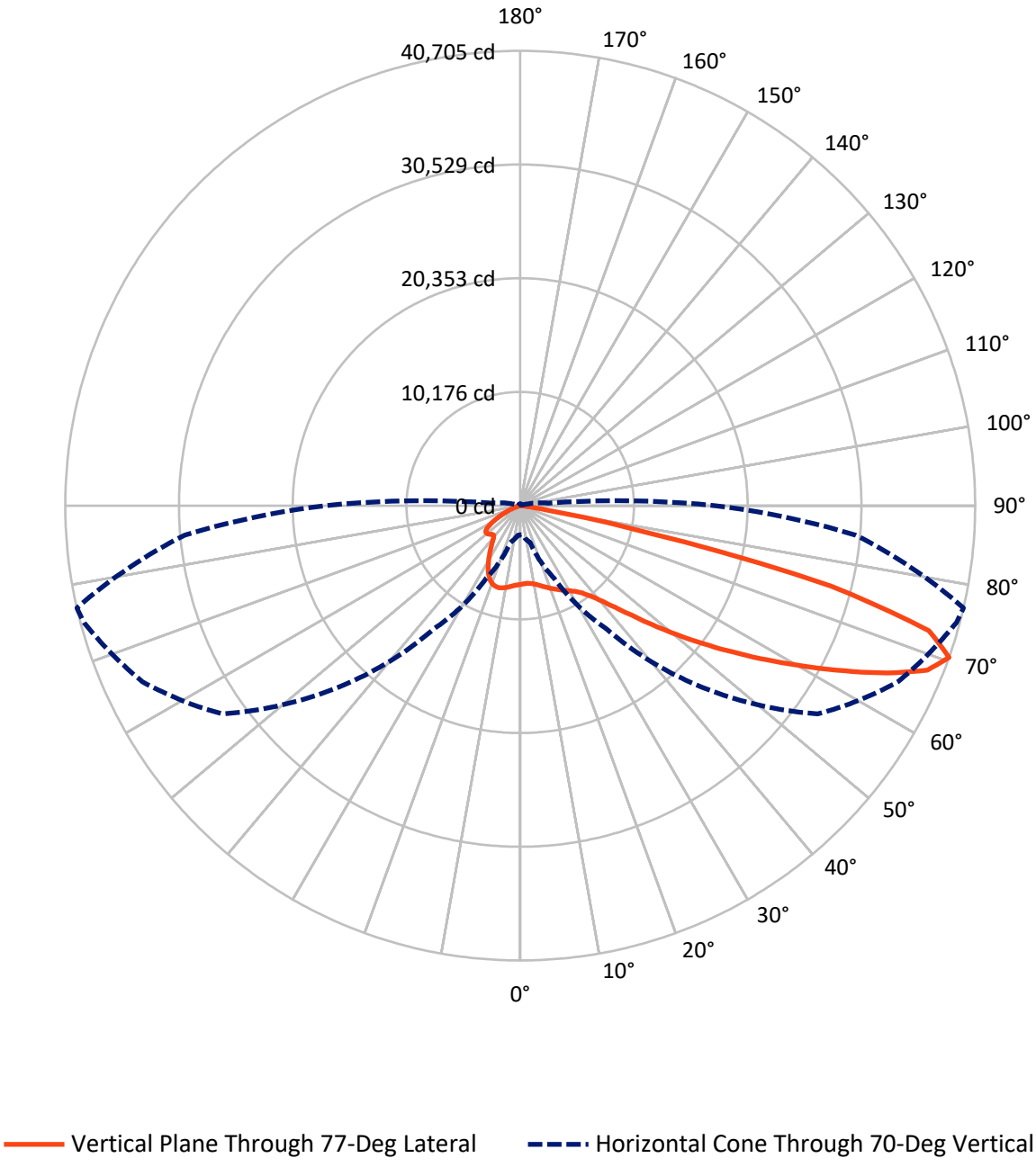
## Luminous Intensity Polar Plot



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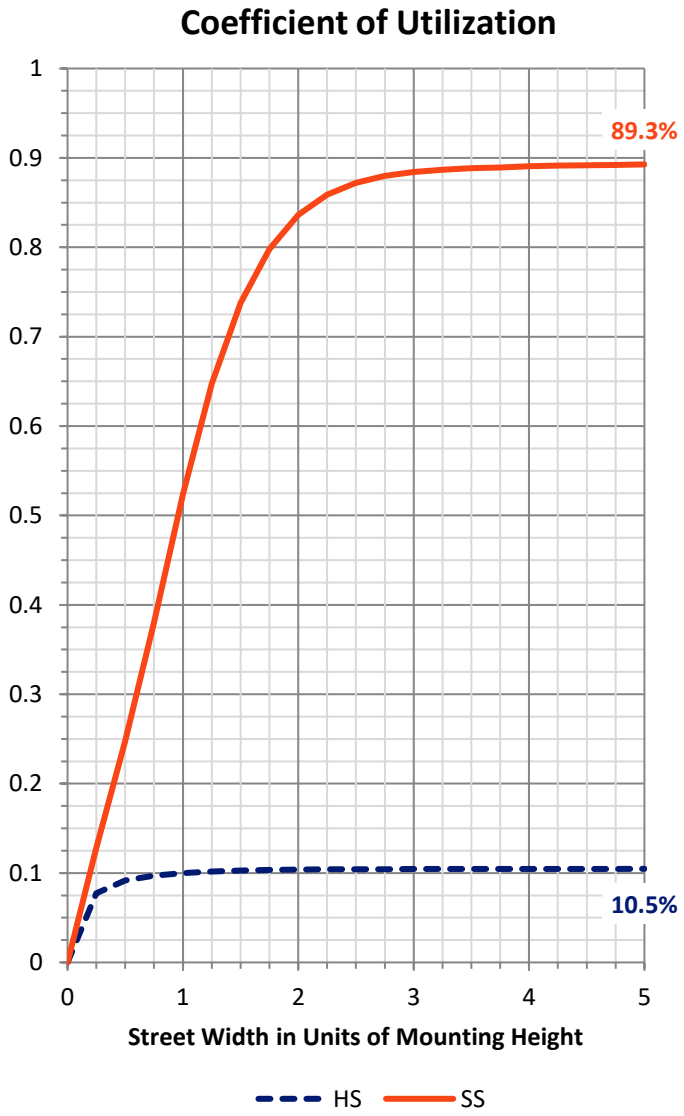
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 4762.2 | 0.0 | 4762.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| **Street Side** | Lumens | 40413.8 | 0.0 | 40413.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| **Total** | Lumens | 45176.0 | 0.0 | 45176.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 607.3 | 1.3 |
| 10°-20° | 1441.7 | 3.2 |
| 20°-30° | 2229.9 | 4.9 |
| 30°-40° | 4046.2 | 9.0 |
| 40°-50° | 7637.8 | 16.9 |
| 50°-60° | 11035.9 | 24.4 |
| 60°-70° | 11747.4 | 26.0 |
| 70°-80° | 6225.3 | 13.8 |
| 80°-90° | 204.4 | 0.5 |
| 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° | 45176.0 | 100.0 |
| 0°-180° | 45176.0 | 100.0 |



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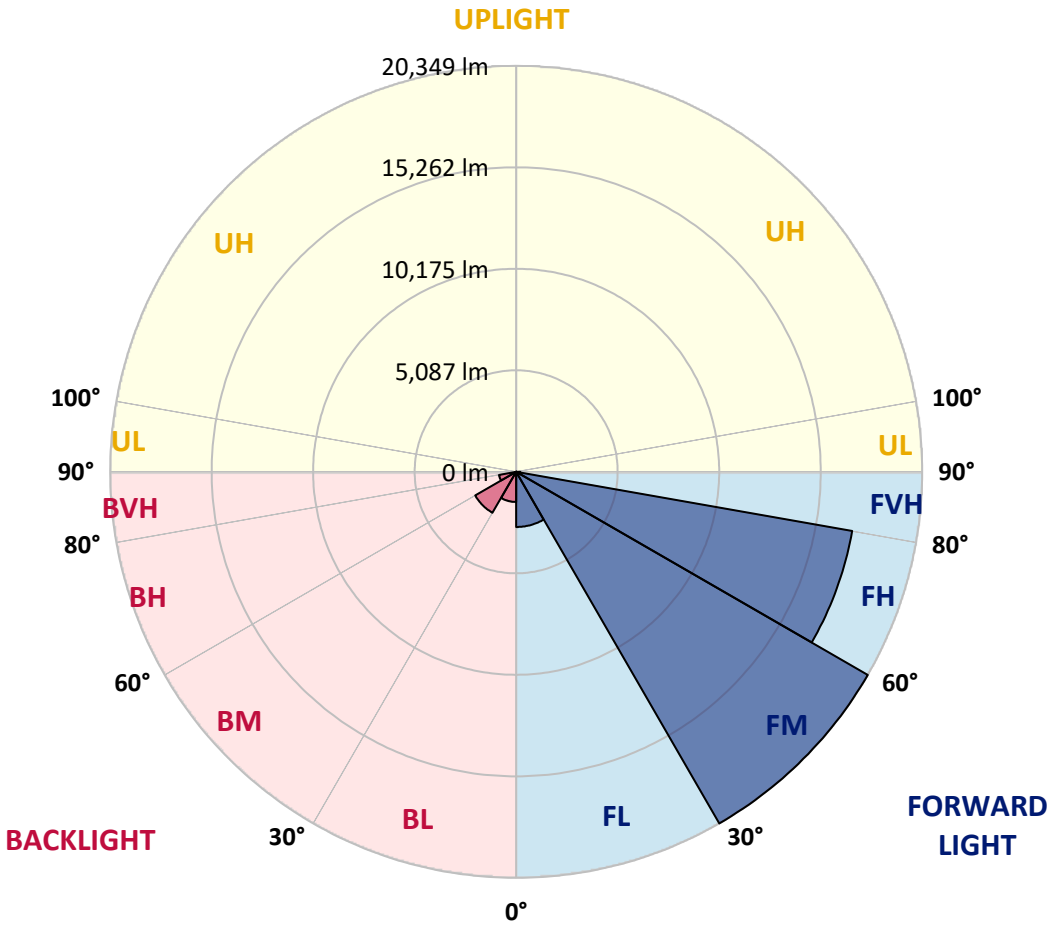
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2765.8 | 6.1 | | | |
| FM | (30°-60°) | 20349.3 | 45.0 | | | |
| FH | (60°-80°) | 17099.8 | 37.9 | | | G5 |
| FVH | (80°-90°) | 198.9 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1513.0 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2370.6 | 5.2 | B2/2500 | | |
| BH | (60°-80°) | 873.0 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 5.5 | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | *7046.6* |
| 2.5° | 6615.9 | 6675.8 | 6667.2 | 6707.1 | 6721.4 | 6778.5 | 6835.5 | 6912.6 | 6998.1 | *6995.3* |
| 5° | 6242.1 | 6302.0 | 6316.3 | 6370.5 | 6439.0 | 6527.4 | 6644.4 | 6798.4 | 6958.2 | *6983.9* |
| 7.5° | 5799.9 | 5862.7 | 5899.8 | 6008.2 | 6133.7 | 6316.3 | 6507.4 | 6732.8 | 6998.1 | *7035.2* |
| 10° | 5357.7 | 5414.8 | 5463.3 | 5617.3 | 5817.0 | 6088.1 | 6399.0 | 6724.3 | 7080.9 | *7135.1* |
| 12.5° | 5083.9 | 5138.1 | 5192.3 | 5326.3 | 5574.5 | 5905.5 | 6327.7 | 6764.2 | 7217.8 | *7294.8* |
| 15° | 4986.9 | 5035.4 | 5078.1 | 5198.0 | 5429.1 | 5805.6 | 6313.4 | 6846.9 | 7391.8 | *7494.5* |
| 17.5° | 5001.1 | 5026.8 | 5055.3 | 5146.6 | 5372.0 | 5760.0 | 6339.1 | 6989.6 | 7597.2 | *7688.5* |
| 20° | 5083.9 | 5098.1 | 5101.0 | 5163.7 | 5363.4 | 5754.3 | 6390.5 | 7126.5 | 7791.2 | *7913.9* |
| 22.5° | 5189.4 | 5195.1 | 5189.4 | 5232.2 | 5417.6 | 5797.1 | 6458.9 | 7292.0 | 8008.1 | *8122.2* |
| 25° | 5683.0 | 5574.5 | 5437.6 | 5354.9 | 5508.9 | 5879.8 | 6561.6 | 7514.5 | 8244.9 | *8356.1* |
| 27.5° | 7215.0 | 6904.0 | 6413.3 | 5862.7 | 5697.2 | 5999.6 | 6704.3 | 7739.9 | 8484.5 | *8584.3* |
| 30° | 9702.7 | 9294.7 | 8461.7 | 7220.7 | 6302.0 | 6250.7 | 6889.7 | 7965.3 | 8738.4 | *8846.8* |
| 32.5° | 12196.1 | 12096.3 | 11134.8 | 9417.4 | 7662.9 | 6809.9 | 7197.8 | 8270.5 | 9075.0 | *9160.6* |
| 35° | 14718.1 | 14515.5 | 13728.1 | 12030.6 | 9759.7 | 7948.2 | 7711.4 | 8669.9 | 9517.2 | *9614.2* |
| 37.5° | 16649.5 | 16526.8 | 16039.0 | 14641.0 | 12247.5 | 9705.5 | 8590.1 | 9289.0 | 10159.1 | *10267.6* |
| 40° | 18355.5 | 18298.4 | 18133.0 | 17211.5 | 15029.0 | 12005.0 | 9956.6 | 10247.6 | 11049.2 | *11177.6* |
| 42.5° | 19696.4 | 19830.4 | 19924.6 | 19667.8 | 17896.2 | 14629.6 | 11793.9 | 11594.1 | 12290.3 | *12421.5* |
| 45° | 21068.6 | 21114.2 | 21493.7 | 21864.6 | 20743.4 | 17374.1 | 13865.0 | 13171.8 | 13833.7 | *13996.3* |
| 47.5° | 21950.1 | 22132.7 | 22800.3 | 23453.6 | 23136.9 | 20095.8 | 16090.3 | 15034.7 | 15622.4 | *15927.7* |
| 50° | 22015.8 | 22361.0 | 23279.6 | 24417.9 | 24880.1 | 22686.2 | 18509.6 | 17157.3 | 17782.1 | *18118.7* |
| 52.5° | 20923.1 | 21459.4 | 22883.0 | 24549.1 | 25821.5 | 24880.1 | 21011.5 | 19279.8 | 20081.5 | *20520.8* |
| 55° | 16041.8 | 16743.6 | 21391.0 | 23835.9 | 25858.6 | 26543.3 | 23447.9 | 21490.8 | 22643.4 | *23139.8* |
| 57.5° | 13976.3 | 14330.1 | 16817.8 | 22597.7 | 25171.1 | 27213.7 | 25650.3 | 23596.3 | 25430.7 | *26046.9* |
| 60° | 11628.4 | 12093.4 | 14104.7 | 20572.2 | 24238.2 | 27279.3 | 27596.0 | 26312.2 | 28451.9 | *29145.1* |
| 62.5° | 7902.5 | 8407.5 | 10407.3 | 17091.7 | 22962.9 | 27248.0 | 29190.8 | 29108.0 | 31809.7 | *32554.3* |
| 65° | 4895.6 | 5212.2 | 6530.3 | 13956.3 | 21179.9 | 27282.2 | 30859.7 | 32503.0 | 35353.0 | *36109.0* |
| 67.5° | 3868.5 | 4014.0 | 4701.6 | 10715.5 | 18107.3 | 26511.9 | 32525.8 | 35695.4 | 38688.1 | *39287.2* |
| 70° | *2599.0* | *2687.4* | *3420.6* | *7183.6* | *13471.4* | *22957.2* | *32494.4* | *37298.7* | *40405.5* | *40705.0* |
| 72.5° | 1369.4 | 1437.9 | 1999.9 | 3326.5 | 8136.4 | 16318.5 | 27390.6 | 35381.6 | 38696.6 | *38245.9* |
| 75° | 684.7 | 798.8 | 1346.6 | 1688.9 | 3474.8 | 9100.7 | 17008.9 | 27895.6 | 30457.5 | *28711.5* |
| 77.5° | 519.2 | 627.6 | 1112.6 | 1112.6 | 1209.6 | 3064.0 | 7203.5 | 15214.5 | 14033.4 | *11685.4* |
| 80° | 330.9 | 427.9 | 972.8 | 841.6 | 505.0 | 778.8 | 1877.2 | 4262.2 | 2981.3 | *2268.0* |
| 82.5° | 194.0 | 279.6 | 810.2 | 556.3 | 282.4 | 288.1 | 530.6 | 907.2 | 773.1 | *602.0* |
| 85° | 77.0 | 182.6 | 556.3 | 219.7 | 111.3 | 71.3 | 159.8 | 194.0 | 159.8 | *119.8* |
| 87.5° | 0.0 | 42.8 | 97.0 | 0.0 | 8.6 | 5.7 | 11.4 | 14.3 | 14.3 | *11.4* |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7046.6 | 0° | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 | 7046.6 |
| 7052.3 | 2.5° | 7078.0 | 7083.7 | 7100.8 | 7103.7 | 7063.8 | 7012.4 | 6992.4 | 6983.9 | 6949.6 | 6946.8 |
| 7098.0 | 5° | 7163.6 | 7189.3 | 7163.6 | 7089.4 | 6912.6 | 6664.4 | 6476.1 | 6322.0 | 6182.2 | 6139.4 |
| 7254.9 | 7.5° | 7334.8 | 7360.5 | 7283.4 | 6992.4 | 6547.4 | 6053.8 | 5608.8 | 5295.0 | 5012.5 | 4907.0 |
| 7446.0 | 10° | 7580.1 | 7614.4 | 7371.9 | 6784.2 | 5996.8 | 5203.7 | 4450.5 | 3919.9 | 3506.2 | 3337.9 |
| 7705.7 | 12.5° | 7888.2 | 7902.5 | 7420.4 | 6467.5 | 5280.7 | 4148.1 | 3081.1 | 2513.4 | 2145.4 | 2008.4 |
| 8019.5 | 15° | 8227.7 | 8207.8 | 7426.1 | 6036.7 | 4305.0 | 2932.8 | 2011.3 | 1651.8 | 1503.5 | 1457.8 |
| 8333.3 | 17.5° | 8584.3 | 8501.6 | 7312.0 | 5414.8 | 3235.2 | 2005.6 | 1492.1 | 1406.5 | 1380.8 | 1369.4 |
| 8644.3 | 20° | 8935.3 | 8749.8 | 7103.7 | 4601.7 | 2322.3 | 1497.8 | 1355.1 | 1329.4 | 1315.2 | 1309.5 |
| 8958.1 | 22.5° | 9254.8 | 8938.1 | 6747.1 | 3657.4 | 1686.1 | 1323.7 | 1280.9 | 1258.1 | 1232.4 | 1221.0 |
| 9263.3 | 25° | 9565.7 | 9046.5 | 6245.0 | 2775.9 | 1349.4 | 1238.2 | 1203.9 | 1161.1 | 1126.9 | 1112.6 |
| 9591.4 | 27.5° | 9868.1 | 9115.0 | 5617.3 | 2054.1 | 1203.9 | 1158.3 | 1095.5 | 1035.6 | 1009.9 | 1004.2 |
| 9942.3 | 30° | 10190.5 | 9137.8 | 4904.1 | 1532.0 | 1115.5 | 1058.4 | 967.1 | 898.7 | 884.4 | 887.2 |
| 10415.9 | 32.5° | 10584.2 | 9172.0 | 4185.2 | 1255.3 | 1041.3 | 938.6 | 830.2 | 758.9 | 747.5 | 758.9 |
| 11106.3 | 35° | 11055.0 | 9240.5 | 3491.9 | 1155.4 | 975.7 | 815.9 | 699.0 | 639.0 | 627.6 | 636.2 |
| 11990.7 | 37.5° | 11694.0 | 9351.8 | 2844.3 | 1135.5 | 921.5 | 713.2 | 587.7 | 539.2 | 539.2 | 542.0 |
| 13074.8 | 40° | 12544.2 | 9648.5 | 2265.2 | 1121.2 | 893.0 | 636.2 | 496.4 | 476.4 | 485.0 | 490.7 |
| 14455.6 | 42.5° | 13579.8 | 10279.0 | 1874.3 | 1104.1 | 861.6 | 602.0 | 450.8 | 442.2 | 456.5 | 462.2 |
| 16110.3 | 45° | 14740.9 | 11077.8 | 1737.4 | 1075.5 | 833.0 | 624.8 | 430.8 | 419.4 | 436.5 | 439.3 |
| 17964.7 | 47.5° | 15942.0 | 11859.5 | 1720.3 | 1044.2 | 804.5 | 659.0 | 425.1 | 399.4 | 419.4 | 422.2 |
| 19944.6 | 50° | 17157.3 | 12370.1 | 1737.4 | 995.7 | 758.9 | 659.0 | 427.9 | 379.4 | 396.6 | 405.1 |
| 21998.6 | 52.5° | 18381.2 | 12604.1 | 1726.0 | 890.1 | 679.0 | 619.1 | 427.9 | 362.3 | 379.4 | 385.1 |
| 24218.2 | 55° | 19568.0 | 12558.4 | 1552.0 | 733.2 | 576.3 | 547.8 | 416.5 | 348.1 | 359.5 | 362.3 |
| 26315.1 | 57.5° | 20506.6 | 11922.2 | 1229.6 | 570.6 | 467.9 | 456.5 | 379.4 | 330.9 | 339.5 | 336.6 |
| 28237.9 | 60° | 20997.3 | 10524.3 | 878.7 | 439.3 | 368.0 | 359.5 | 333.8 | 308.1 | 313.8 | 299.6 |
| 29866.9 | 62.5° | 21003.0 | 8675.6 | 587.7 | 348.1 | 293.8 | 285.3 | 285.3 | 276.7 | 271.0 | 242.5 |
| 31127.9 | 65° | 20555.1 | 6624.4 | 390.8 | 276.7 | 236.8 | 222.5 | 239.6 | 236.8 | 216.8 | 176.9 |
| 31513.0 | 67.5° | 19539.4 | 4342.1 | 296.7 | 216.8 | 182.6 | 174.0 | 191.1 | 199.7 | 185.4 | 148.4 |
| *30109.4* | 70° | *17451.1* | *2527.7* | *245.3* | *168.3* | *136.9* | *128.4* | *154.1* | *171.2* | *154.1* | *119.8* |
| 25735.9 | 72.5° | 14495.5 | 1363.7 | 199.7 | 125.5 | 94.1 | 85.6 | 122.7 | 139.8 | 122.7 | 88.4 |
| 16512.5 | 75° | 9406.0 | 730.3 | 154.1 | 82.7 | 48.5 | 54.2 | 91.3 | 102.7 | 85.6 | 57.1 |
| 4847.1 | 77.5° | 3158.2 | 322.4 | 97.0 | 39.9 | 22.8 | 22.8 | 54.2 | 62.8 | 39.9 | 20.0 |
| 881.5 | 80° | 704.7 | 134.1 | 39.9 | 17.1 | 8.6 | 8.6 | 11.4 | 11.4 | 5.7 | 0.0 |
| 271.0 | 82.5° | 231.1 | 54.2 | 17.1 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68.5 | 85° | 88.4 | 20.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.8 | 87.5° | 34.2 | 2.9 | 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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| 180° |
|---|
| 7046.6 |
| 6952.5 |
| 6113.7 |
| 4864.2 |
| 3266.6 |
| 1965.6 |
| 1457.8 |
| 1366.5 |
| 1303.8 |
| 1218.2 |
| 1106.9 |
| 998.5 |
| 887.2 |
| 756.0 |
| 633.3 |
| 539.2 |
| 490.7 |
| 462.2 |
| 442.2 |
| 425.1 |
| 408.0 |
| 385.1 |
| 362.3 |
| 336.6 |
| 296.7 |
| 233.9 |
| 171.2 |
| 145.5 |
| *114.1* |
| 85.6 |
| 51.4 |
| 17.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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