

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: P944407

Luminaire Tested: **GLAN-SB9B-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9B-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46118 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - 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

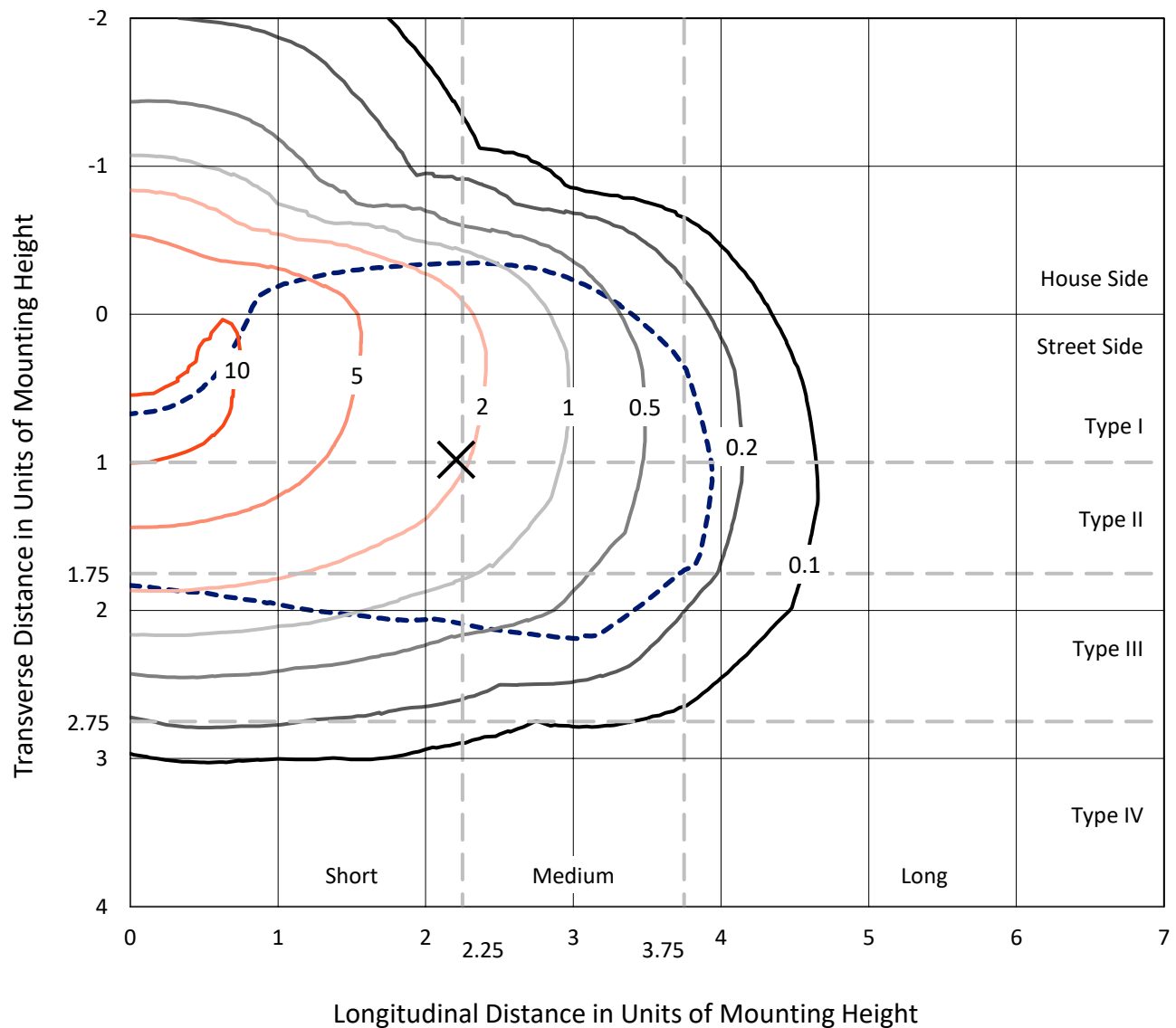


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## Iso-Footcandle Lines of Horizontal Illumination

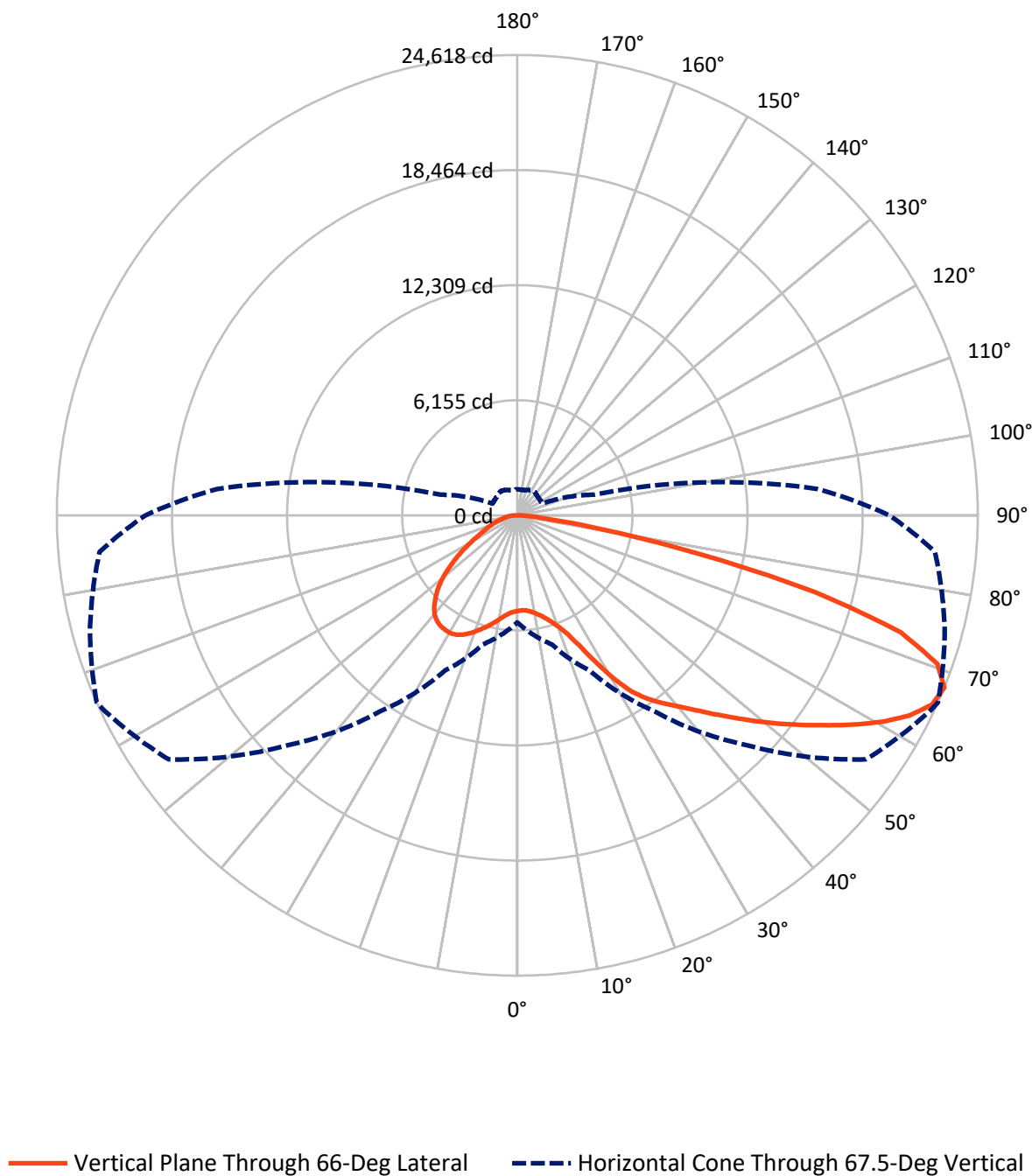
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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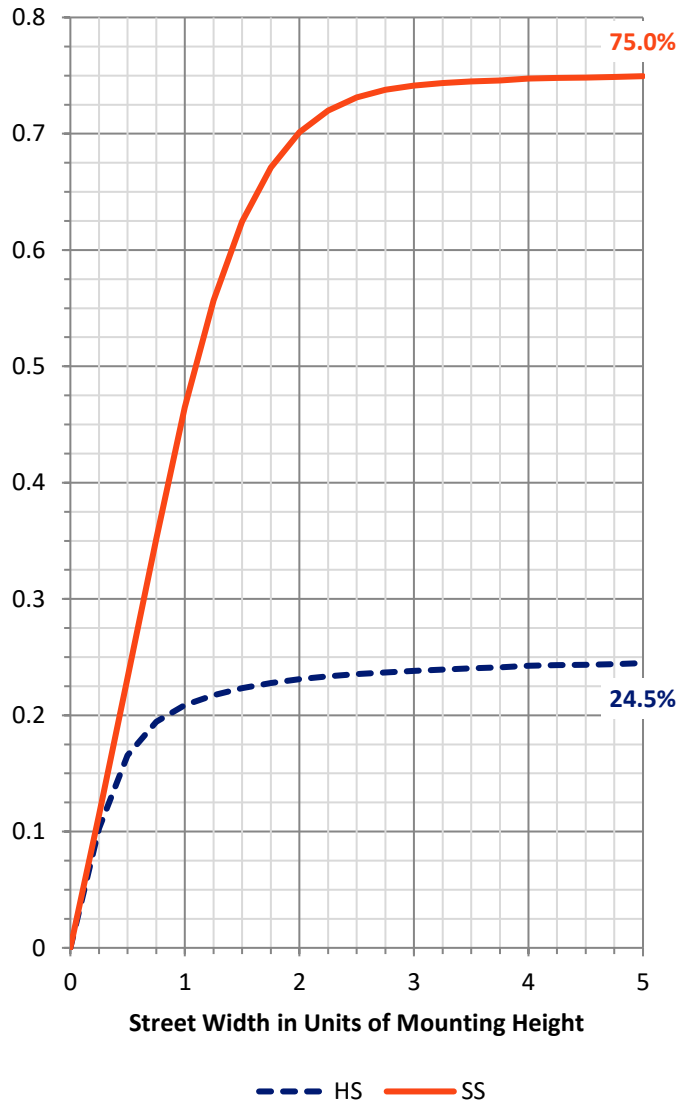
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11467.1  | 0.0    | 11467.1 |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 34650.9  | 0.0    | 34650.9 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 46118.0  | 0.0    | 46118.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 507.1   | 1.1       |
| 10°-20°   | 1675.5  | 3.6       |
| 20°-30°   | 3229.5  | 7.0       |
| 30°-40°   | 5662.5  | 12.3      |
| 40°-50°   | 8418.3  | 18.3      |
| 50°-60°   | 10671.0 | 23.1      |
| 60°-70°   | 10441.3 | 22.6      |
| 70°-80°   | 4980.6  | 10.8      |
| 80°-90°   | 532.3   | 1.2       |
| 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°    | 46118.0 | 100.0     |
| 0°-180°   | 46118.0 | 100.0     |

**Coefficient of Utilization**



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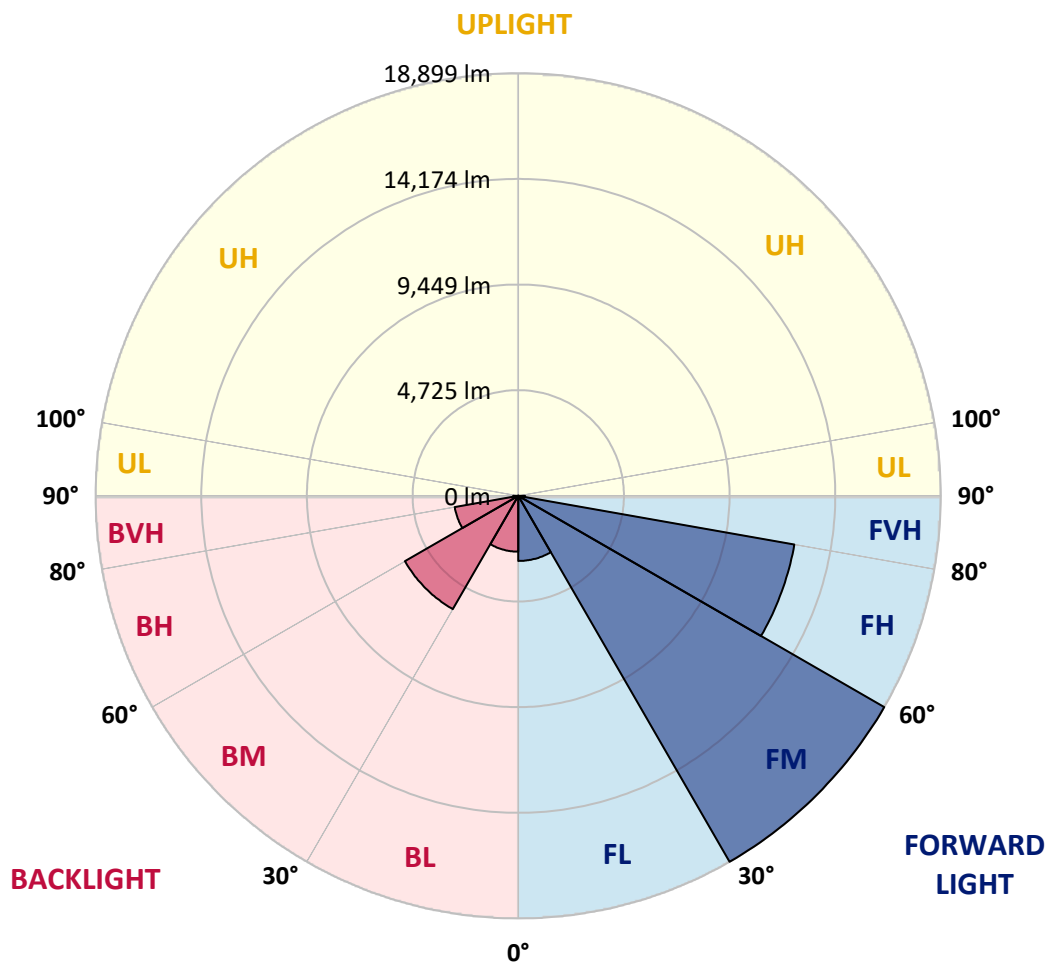
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2914.2  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 18898.8 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 12536.1 | 27.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 301.8   | 0.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2498.0  | 5.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5852.9  | 12.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2885.7  | 6.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 230.5   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  | 5115.1  |
| 2.5°  | 5061.8  | 5090.9  | 5083.6  | 5071.5  | 5069.1  | 5073.9  | 5081.2  | 5088.4  | 5086.0  | 5098.1  |
| 5°    | 5047.2  | 5076.3  | 5073.9  | 5073.9  | 5083.6  | 5103.0  | 5115.1  | 5127.2  | 5115.1  | 5129.6  |
| 7.5°  | 5056.9  | 5078.7  | 5088.4  | 5098.1  | 5122.4  | 5158.7  | 5187.8  | 5214.4  | 5199.9  | 5216.9  |
| 10°   | 5180.5  | 5197.5  | 5207.2  | 5207.2  | 5224.1  | 5265.3  | 5294.4  | 5342.9  | 5330.7  | 5357.4  |
| 12.5° | 5405.9  | 5422.8  | 5422.8  | 5413.1  | 5425.2  | 5451.9  | 5461.6  | 5514.9  | 5493.1  | 5536.7  |
| 15°   | 5682.1  | 5716.0  | 5689.4  | 5672.4  | 5677.2  | 5703.9  | 5701.5  | 5742.7  | 5720.9  | 5757.2  |
| 17.5° | 5987.4  | 6031.0  | 5987.4  | 5985.0  | 5975.3  | 6004.4  | 6006.8  | 6043.1  | 6004.4  | 6031.0  |
| 20°   | 6348.4  | 6409.0  | 6372.7  | 6384.8  | 6363.0  | 6375.1  | 6387.2  | 6440.5  | 6379.9  | 6399.3  |
| 22.5° | 6857.3  | 6930.0  | 6891.2  | 6937.2  | 6922.7  | 6913.0  | 6910.6  | 7005.1  | 6910.6  | 6917.9  |
| 25°   | 7598.7  | 7686.0  | 7618.1  | 7681.1  | 7681.1  | 7712.6  | 7749.0  | 7870.1  | 7712.6  | 7666.6  |
| 27.5° | 8694.0  | 8781.2  | 8647.9  | 8686.7  | 8674.6  | 8752.1  | 8713.4  | 9013.8  | 8844.2  | 8769.1  |
| 30°   | 10012.1 | 10167.2 | 9915.2  | 9905.5  | 9893.4  | 10017.0 | 10072.7 | 10271.4 | 10099.3 | 10024.2 |
| 32.5° | 11436.9 | 11599.2 | 11298.8 | 11211.5 | 11165.5 | 11240.6 | 11194.6 | 11354.5 | 11235.8 | 11119.5 |
| 35°   | 12944.0 | 13103.9 | 12818.0 | 12648.4 | 12464.3 | 12306.8 | 12142.0 | 12183.2 | 12071.7 | 11894.8 |
| 37.5° | 14368.8 | 14662.0 | 14359.1 | 14177.4 | 13838.1 | 13530.4 | 13070.0 | 12878.6 | 12774.4 | 12612.1 |
| 40°   | 15820.2 | 15987.4 | 15757.2 | 15602.1 | 15233.8 | 14751.6 | 14015.0 | 13610.4 | 13469.8 | 13312.3 |
| 42.5° | 16888.8 | 17048.7 | 16925.1 | 16818.5 | 16530.2 | 15970.4 | 15018.2 | 14511.8 | 14308.2 | 14131.3 |
| 45°   | 17736.9 | 17855.6 | 17778.0 | 17816.8 | 17693.2 | 17150.5 | 16057.7 | 15478.6 | 15267.7 | 15052.1 |
| 47.5° | 18078.5 | 18204.5 | 18328.1 | 18558.3 | 18769.1 | 18369.3 | 17174.7 | 16525.3 | 16302.4 | 16081.9 |
| 50°   | 18039.7 | 18168.2 | 18526.8 | 19016.2 | 19670.5 | 19537.2 | 18352.3 | 17639.9 | 17434.0 | 17182.0 |
| 52.5° | 17729.6 | 17875.0 | 18335.4 | 19149.5 | 20191.4 | 20411.9 | 19551.7 | 18790.9 | 18597.0 | 18296.6 |
| 55°   | 16915.4 | 17002.7 | 17693.2 | 18846.6 | 20315.0 | 21022.5 | 20726.9 | 20017.0 | 19823.1 | 19403.9 |
| 57.5° | 15405.9 | 15531.9 | 16537.4 | 18030.0 | 20004.8 | 21436.9 | 21759.1 | 21306.0 | 21119.5 | 20516.1 |
| 60°   | 13435.9 | 13637.0 | 14788.0 | 16658.6 | 19214.9 | 21434.5 | 22696.9 | 22573.3 | 22418.2 | 21611.3 |
| 62.5° | 11206.7 | 11439.3 | 12546.6 | 14720.1 | 17833.8 | 20826.3 | 23283.3 | 23634.6 | 23554.6 | 22621.8 |
| 65°   | 8606.7  | 8766.7  | 9869.2  | 12212.3 | 15684.5 | 19520.2 | 23351.1 | 24359.1 | 24373.6 | 23389.9 |
| 67.5° | 5730.6  | 6190.9  | 7148.0  | 9164.0  | 12805.9 | 17385.5 | 22755.0 | 24477.8 | 24618.4 | 23654.0 |
| 70°   | 2796.2  | 3402.0  | 4339.7  | 5955.9  | 9164.0  | 14111.9 | 21197.0 | 23503.8 | 23816.3 | 22883.5 |
| 72.5° | 1160.6  | 1356.9  | 1868.2  | 2939.2  | 5260.5  | 9522.7  | 18066.4 | 20862.6 | 21441.7 | 20276.2 |
| 75°   | 782.7   | 848.1   | 1068.6  | 1507.1  | 2396.4  | 4695.9  | 13028.8 | 15556.1 | 16489.0 | 15313.8 |
| 77.5° | 603.3   | 644.5   | 777.8   | 1054.0  | 1424.8  | 1776.1  | 6973.6  | 9374.8  | 9857.0  | 9125.3  |
| 80°   | 474.9   | 506.4   | 581.5   | 768.1   | 1010.4  | 949.8   | 2377.0  | 4247.6  | 4526.3  | 3796.9  |
| 82.5° | 411.9   | 424.0   | 416.8   | 521.0   | 671.2   | 554.9   | 780.2   | 1567.7  | 1730.1  | 1255.1  |
| 85°   | 298.0   | 332.0   | 346.5   | 322.3   | 356.2   | 281.1   | 319.8   | 554.9   | 610.6   | 545.2   |
| 87.5° | 121.2   | 179.3   | 220.5   | 208.4   | 130.8   | 80.0    | 99.3    | 162.3   | 186.6   | 203.5   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5115.1  | 0°    | 5115.1  | 5115.1  | 5115.1  | 5115.1 | 5115.1 | 5115.1 | 5115.1 | 5115.1 | 5115.1 | 5115.1 |
| 5117.5  | 2.5°  | 5119.9  | 5136.9  | 5149.0  | 5163.6 | 5173.2 | 5187.8 | 5216.9 | 5233.8 | 5236.2 | 5248.4 |
| 5156.3  | 5°    | 5166.0  | 5190.2  | 5216.9  | 5255.6 | 5299.2 | 5335.6 | 5391.3 | 5430.1 | 5444.6 | 5456.7 |
| 5250.8  | 7.5°  | 5265.3  | 5299.2  | 5347.7  | 5415.6 | 5478.6 | 5527.0 | 5594.9 | 5640.9 | 5686.9 | 5703.9 |
| 5401.0  | 10°   | 5413.1  | 5461.6  | 5531.9  | 5623.9 | 5691.8 | 5754.8 | 5825.1 | 5863.8 | 5909.9 | 5929.2 |
| 5580.3  | 12.5° | 5597.3  | 5648.2  | 5740.2  | 5868.7 | 5931.7 | 5975.3 | 5999.5 | 5989.8 | 5999.5 | 6016.5 |
| 5796.0  | 15°   | 5808.1  | 5863.8  | 5968.0  | 6106.1 | 6149.7 | 6111.0 | 6057.7 | 6009.2 | 6001.9 | 6006.8 |
| 6057.7  | 17.5° | 6057.7  | 6098.9  | 6220.0  | 6336.3 | 6304.8 | 6144.9 | 6028.6 | 5951.1 | 5912.3 | 5900.2 |
| 6392.1  | 20°   | 6406.6  | 6406.6  | 6505.9  | 6578.6 | 6367.8 | 6096.4 | 5914.7 | 5788.7 | 5708.7 | 5674.8 |
| 6847.6  | 22.5° | 6830.6  | 6791.9  | 6854.9  | 6804.0 | 6355.7 | 5960.7 | 5708.7 | 5490.7 | 5369.5 | 5321.1 |
| 7484.9  | 25°   | 7368.5  | 7322.5  | 7305.5  | 6990.5 | 6268.5 | 5745.1 | 5335.6 | 5071.5 | 4964.9 | 4938.2 |
| 8403.2  | 27.5° | 8180.3  | 8064.0  | 7843.5  | 7092.3 | 6108.6 | 5405.9 | 4899.4 | 4654.7 | 4594.1 | 4596.6 |
| 9583.2  | 30°   | 9261.0  | 9028.3  | 8488.0  | 7109.3 | 5846.9 | 4926.1 | 4453.6 | 4279.1 | 4250.1 | 4262.2 |
| 10574.3 | 32.5° | 10261.7 | 10041.2 | 9147.1  | 7031.7 | 5444.6 | 4456.0 | 4053.8 | 3937.5 | 3893.9 | 3908.4 |
| 11330.3 | 35°   | 11046.8 | 10986.2 | 9757.7  | 6922.7 | 4950.3 | 4015.0 | 3695.2 | 3595.8 | 3511.0 | 3491.6 |
| 12042.6 | 37.5° | 11788.2 | 11764.0 | 10215.7 | 6770.1 | 4460.9 | 3702.4 | 3406.8 | 3276.0 | 3152.4 | 3084.6 |
| 12830.1 | 40°   | 12602.4 | 12578.1 | 10516.1 | 6535.0 | 4027.1 | 3431.1 | 3147.6 | 2975.5 | 2822.9 | 2699.3 |
| 13721.8 | 42.5° | 13518.3 | 13375.3 | 10659.1 | 6198.2 | 3658.8 | 3200.9 | 2936.8 | 2704.1 | 2503.0 | 2389.1 |
| 14729.8 | 45°   | 14519.0 | 14196.8 | 10656.7 | 5769.3 | 3348.7 | 2990.1 | 2711.4 | 2381.9 | 2195.3 | 2088.7 |
| 15764.5 | 47.5° | 15580.3 | 14981.8 | 10525.8 | 5294.4 | 3048.2 | 2757.5 | 2362.5 | 2110.5 | 1986.9 | 1921.5 |
| 16888.8 | 50°   | 16675.6 | 15716.0 | 10302.9 | 4749.2 | 2740.5 | 2493.3 | 2144.4 | 1972.4 | 1877.9 | 1817.3 |
| 18003.4 | 52.5° | 17705.4 | 16382.4 | 10033.9 | 4131.3 | 2427.9 | 2236.5 | 2047.5 | 1914.2 | 1814.9 | 1747.0 |
| 19084.1 | 55°   | 18662.5 | 16956.6 | 9653.5  | 3498.9 | 2173.5 | 2064.5 | 2001.5 | 1890.0 | 1776.1 | 1696.1 |
| 20181.7 | 57.5° | 19513.0 | 17329.8 | 8996.8  | 2905.3 | 1991.8 | 1945.7 | 1953.0 | 1848.8 | 1718.0 | 1650.1 |
| 21262.4 | 60°   | 20220.5 | 17603.6 | 8025.2  | 2355.2 | 1844.0 | 1829.4 | 1877.9 | 1771.3 | 1618.6 | 1541.1 |
| 22175.9 | 62.5° | 20644.5 | 17598.7 | 6833.1  | 1928.8 | 1718.0 | 1722.8 | 1778.5 | 1674.3 | 1519.3 | 1446.6 |
| 22653.3 | 65°   | 20608.2 | 17167.4 | 5524.6  | 1650.1 | 1596.8 | 1601.6 | 1674.3 | 1567.7 | 1436.9 | 1393.3 |
| 22413.4 | 67.5° | 19878.8 | 16115.8 | 4237.9  | 1468.4 | 1463.5 | 1485.3 | 1570.1 | 1495.0 | 1386.0 | 1381.1 |
| 20983.8 | 70°   | 17904.0 | 13932.6 | 3053.1  | 1323.0 | 1325.4 | 1356.9 | 1468.4 | 1449.0 | 1359.3 | 1369.0 |
| 17642.4 | 72.5° | 14356.7 | 10622.7 | 2049.9  | 1170.3 | 1172.8 | 1223.6 | 1371.5 | 1412.6 | 1332.7 | 1461.1 |
| 12517.6 | 75°   | 9561.4  | 6624.7  | 1318.1  | 1008.0 | 1010.4 | 1075.8 | 1286.6 | 1342.4 | 1260.0 | 1456.3 |
| 6513.2  | 77.5° | 4594.1  | 2978.0  | 954.7   | 848.1  | 848.1  | 908.7  | 1112.2 | 1201.8 | 1073.4 | 1131.6 |
| 2093.5  | 80°   | 1587.1  | 1119.5  | 751.2   | 683.3  | 668.8  | 710.0  | 937.7  | 1041.9 | 925.6  | 852.9  |
| 683.3   | 82.5° | 625.2   | 581.5   | 603.3   | 530.7  | 482.2  | 508.8  | 729.3  | 860.2  | 680.9  | 615.5  |
| 385.3   | 85°   | 358.6   | 378.0   | 426.5   | 351.3  | 278.7  | 312.6  | 535.5  | 617.9  | 513.7  | 453.1  |
| 126.0   | 87.5° | 96.9    | 133.3   | 196.3   | 181.7  | 126.0  | 133.3  | 254.4  | 341.7  | 295.6  | 227.8  |
| 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°   |
|--------|
| 5115.1 |
| 5245.9 |
| 5454.3 |
| 5706.3 |
| 5938.9 |
| 6021.3 |
| 6023.7 |
| 5917.1 |
| 5667.6 |
| 5313.8 |
| 4943.1 |
| 4603.8 |
| 4303.4 |
| 3927.8 |
| 3506.2 |
| 3087.0 |
| 2711.4 |
| 2396.4 |
| 2083.8 |
| 1907.0 |
| 1795.5 |
| 1718.0 |
| 1664.6 |
| 1606.5 |
| 1507.1 |
| 1424.8 |
| 1390.8 |
| 1388.4 |
| 1366.6 |
| 1480.5 |
| 1468.4 |
| 1037.1 |
| 799.6  |
| 613.0  |
| 462.8  |
| 235.0  |
| 0.0    |