

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: P454514

Luminaire Tested: **GLAN-SA5C-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21205 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 269  
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

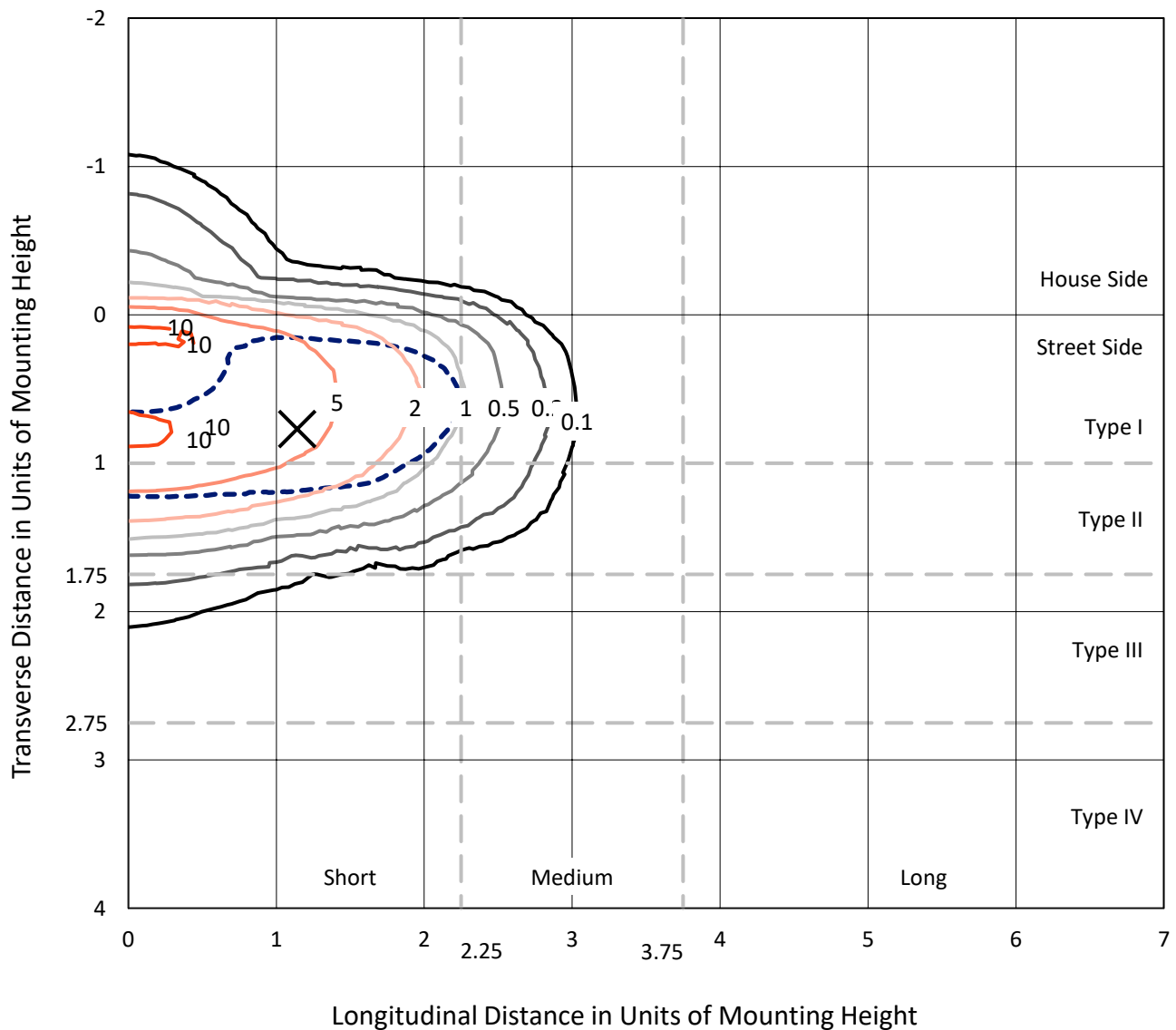


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

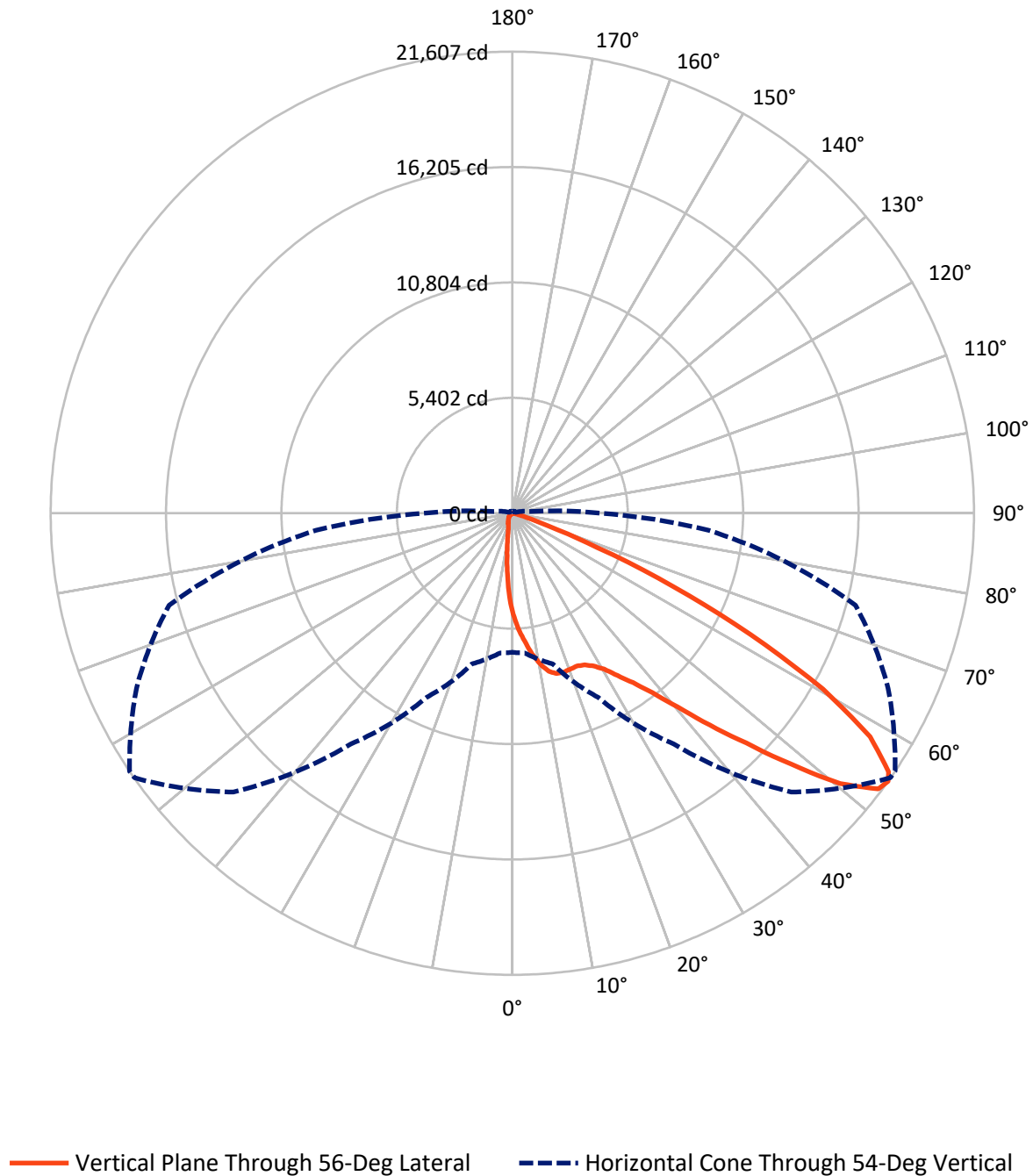


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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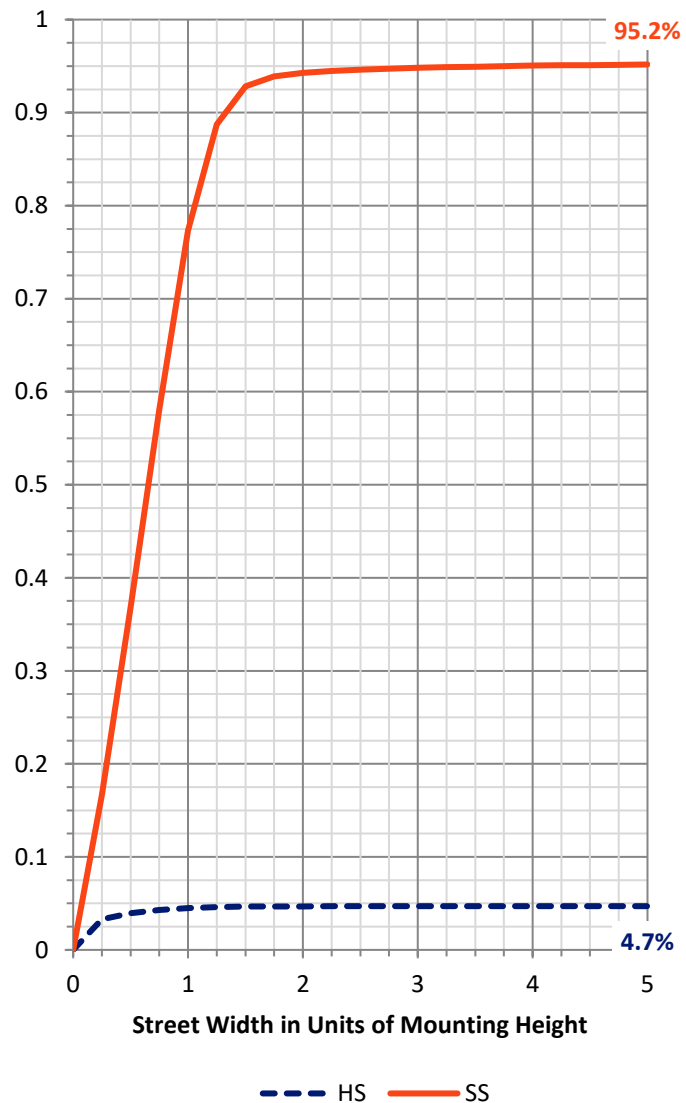
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1002.7   | 0.0    | 1002.7  |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 20202.3  | 0.0    | 20202.3 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 21205.0  | 0.0    | 21205.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 416.3   | 2.0       |
| 10°-20°   | 1125.4  | 5.3       |
| 20°-30°   | 1949.1  | 9.2       |
| 30°-40°   | 3364.5  | 15.9      |
| 40°-50°   | 5726.5  | 27.0      |
| 50°-60°   | 5667.1  | 26.7      |
| 60°-70°   | 2586.6  | 12.2      |
| 70°-80°   | 332.2   | 1.6       |
| 80°-90°   | 37.4    | 0.2       |
| 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°    | 21205.0 | 100.0     |
| 0°-180°   | 21205.0 | 100.0     |

**Coefficient of Utilization**



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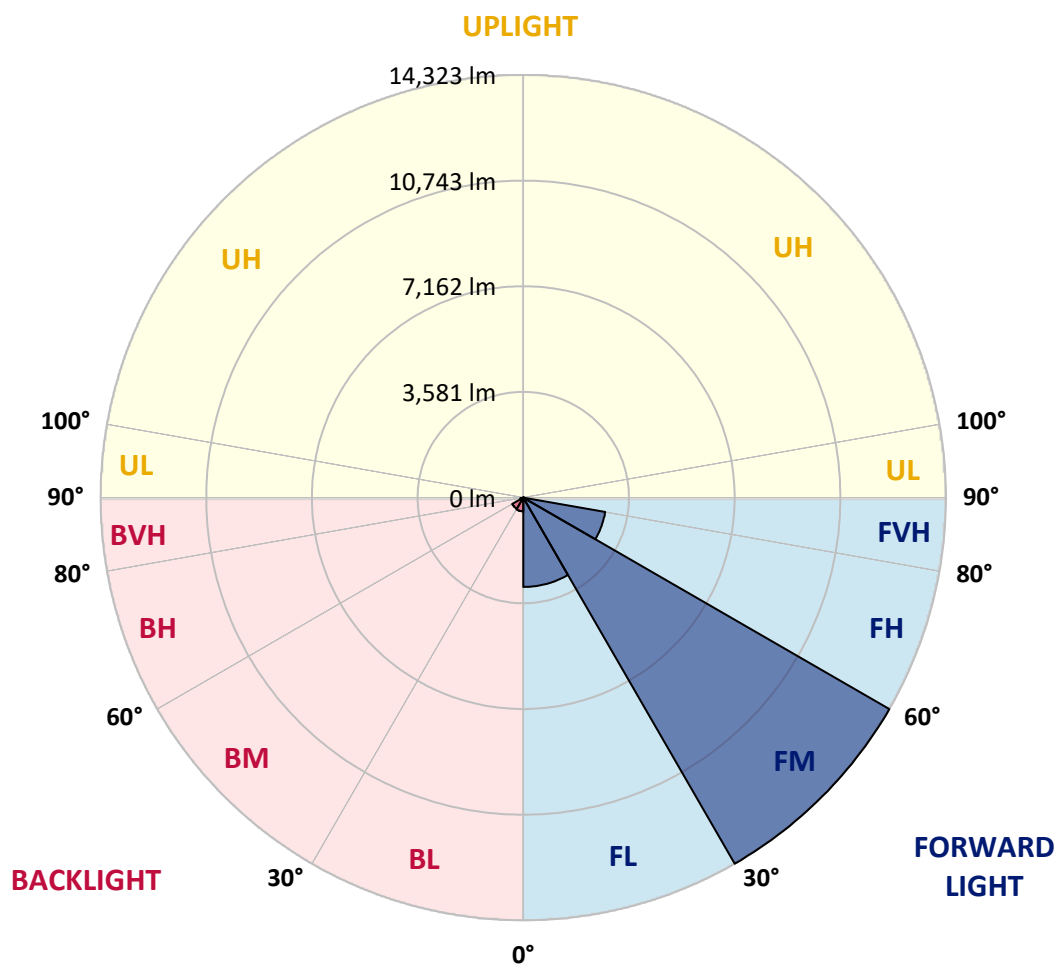
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3027.1  | 14.3      |                         |      |         |
| FM   | (30°-60°)   | 14323.4 | 67.5      |                         |      |         |
| FH   | (60°-80°)   | 2818.3  | 13.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 33.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 463.7   | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 434.6   | 2.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 100.4   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 4.0     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1 |
| 2.5°  | 5987.3  | 5945.8  | 5888.6  | 5844.2  | 5739.8  | 5589.6  | 5430.8  | 5430.8  | 5277.7  | 5064.5  | 4847.1 |
| 5°    | 6905.8  | 6878.6  | 6822.8  | 6708.3  | 6591.0  | 6380.7  | 6061.7  | 6005.9  | 5732.6  | 5346.4  | 4940.0 |
| 7.5°  | 7279.2  | 7292.0  | 7294.9  | 7264.9  | 7209.1  | 7001.6  | 6685.4  | 6646.8  | 6210.5  | 5692.6  | 5061.7 |
| 10°   | 6921.5  | 6984.4  | 7046.0  | 7170.4  | 7346.4  | 7396.5  | 7217.6  | 7177.6  | 6748.4  | 6043.1  | 5193.3 |
| 12.5° | 6389.3  | 6423.6  | 6458.0  | 6654.0  | 7007.3  | 7412.2  | 7599.6  | 7598.2  | 7234.8  | 6392.2  | 5360.7 |
| 15°   | 6141.8  | 6171.8  | 6174.7  | 6262.0  | 6568.1  | 7157.6  | 7762.7  | 7784.2  | 7709.8  | 6822.8  | 5540.9 |
| 17.5° | 6193.3  | 6217.6  | 6197.6  | 6219.1  | 6379.3  | 6877.2  | 7744.1  | 7815.7  | 8094.6  | 7236.2  | 5704.0 |
| 20°   | 6529.5  | 6576.7  | 6499.5  | 6439.4  | 6488.0  | 6802.8  | 7681.2  | 7781.3  | 8366.5  | 7639.7  | 5852.8 |
| 22.5° | 7133.2  | 7159.0  | 7061.7  | 6897.2  | 6811.3  | 6958.7  | 7664.0  | 7762.7  | 8598.2  | 7970.2  | 5938.6 |
| 25°   | 7804.2  | 7795.6  | 7688.3  | 7503.8  | 7323.5  | 7273.4  | 7777.0  | 7865.7  | 8789.9  | 8267.7  | 5964.4 |
| 27.5° | 8475.2  | 8500.9  | 8320.7  | 8091.8  | 7875.7  | 7745.6  | 8030.3  | 8096.1  | 9006.0  | 8606.8  | 5995.9 |
| 30°   | 9254.9  | 9213.4  | 9036.0  | 8774.2  | 8526.7  | 8345.0  | 8438.0  | 8456.6  | 9303.5  | 9056.0  | 6078.8 |
| 32.5° | 10269.2 | 10154.8 | 9955.9  | 9498.1  | 9320.7  | 9013.1  | 9036.0  | 9058.9  | 9665.5  | 9501.0  | 6179.0 |
| 35°   | 11645.5 | 11639.8 | 11250.7 | 10634.0 | 10202.0 | 9820.0  | 9719.9  | 9738.5  | 10213.4 | 10161.9 | 6400.7 |
| 37.5° | 13302.2 | 13325.1 | 12881.6 | 12260.7 | 11465.3 | 10858.7 | 10652.6 | 10655.5 | 11046.1 | 11074.7 | 6738.4 |
| 40°   | 14651.3 | 14711.4 | 14446.7 | 14027.6 | 13242.1 | 12293.6 | 11947.4 | 11915.9 | 12216.3 | 12180.6 | 7220.5 |
| 42.5° | 15232.2 | 15288.0 | 15386.7 | 15532.6 | 15100.5 | 14318.0 | 13501.1 | 13544.0 | 13635.6 | 13385.2 | 7761.3 |
| 45°   | 14947.5 | 15036.2 | 15423.9 | 16325.2 | 16731.5 | 16468.3 | 15494.0 | 15343.8 | 14956.0 | 14694.2 | 8304.9 |
| 47.5° | 13761.5 | 13977.5 | 14625.6 | 16126.3 | 17548.4 | 18438.3 | 17743.0 | 17544.1 | 16278.0 | 15649.9 | 8651.2 |
| 50°   | 11811.5 | 11824.3 | 12727.1 | 14645.6 | 17124.9 | 19681.5 | 20039.2 | 19890.4 | 17509.8 | 16186.4 | 8825.7 |
| 52.5° | 8562.5  | 8844.3  | 9671.2  | 11893.0 | 15290.8 | 19492.7 | 21502.7 | 21441.2 | 18780.2 | 16461.1 | 9077.5 |
| 54°   | 6509.5  | 6563.8  | 7299.2  | 9503.8  | 13183.5 | 18455.4 | 21592.9 | 21607.2 | 19411.1 | 16627.1 | 9226.3 |
| 55°   | 5336.3  | 5206.1  | 5978.7  | 8096.1  | 11745.7 | 17538.4 | 21298.1 | 21366.8 | 19694.4 | 16712.9 | 9336.4 |
| 57.5° | 2529.4  | 2530.8  | 3121.7  | 4270.5  | 7356.4  | 13618.4 | 19496.9 | 19740.2 | 19725.8 | 16860.2 | 9675.5 |
| 60°   | 1280.4  | 1289.0  | 1419.2  | 1971.4  | 3633.9  | 9053.2  | 16120.6 | 16700.0 | 18207.9 | 16881.7 | 9787.1 |
| 62.5° | 895.6   | 885.6   | 864.1   | 948.5   | 1529.4  | 4601.0  | 12001.8 | 12505.3 | 15469.7 | 16064.8 | 9432.3 |
| 65°   | 766.8   | 745.4   | 685.3   | 672.4   | 772.6   | 1832.7  | 7475.2  | 8296.4  | 11811.5 | 13910.2 | 8422.3 |
| 67.5° | 655.2   | 646.7   | 592.3   | 559.4   | 546.5   | 798.3   | 3857.0  | 4289.1  | 8073.2  | 9998.8  | 6379.3 |
| 70°   | 556.5   | 552.2   | 519.3   | 477.8   | 442.1   | 477.8   | 1430.7  | 1772.6  | 4499.4  | 5383.5  | 3010.1 |
| 72.5° | 452.1   | 456.4   | 462.1   | 409.2   | 372.0   | 339.1   | 610.9   | 711.0   | 1882.7  | 1924.2  | 1053.0 |
| 75°   | 396.3   | 392.0   | 392.0   | 356.2   | 310.5   | 251.8   | 336.2   | 362.0   | 576.6   | 535.1   | 244.6  |
| 77.5° | 279.0   | 269.0   | 314.7   | 293.3   | 258.9   | 178.8   | 191.7   | 203.2   | 238.9   | 204.6   | 114.5  |
| 80°   | 193.1   | 193.1   | 201.7   | 263.2   | 233.2   | 130.2   | 117.3   | 125.9   | 141.6   | 121.6   | 65.8   |
| 82.5° | 108.7   | 111.6   | 131.6   | 140.2   | 135.9   | 87.3    | 77.3    | 78.7    | 94.4    | 83.0    | 41.5   |
| 85°   | 12.9    | 21.5    | 75.8    | 74.4    | 55.8    | 38.6    | 42.9    | 44.4    | 58.7    | 51.5    | 24.3   |
| 87.5° | 1.4     | 2.9     | 15.7    | 20.0    | 14.3    | 15.7    | 15.7    | 15.7    | 20.0    | 22.9    | 17.2   |
| 90°   | 0.0     | 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 |
| 2.5°  | 4729.7 | 4621.0 | 4362.1 | 4061.6 | 3869.9 | 3558.0 | 3294.8 | 3104.5 | 3057.3 | 2965.7 | 2992.9 |
| 5°    | 4724.0 | 4498.0 | 3970.1 | 3412.1 | 2817.0 | 2373.5 | 2043.0 | 1782.6 | 1668.1 | 1592.3 | 1539.4 |
| 7.5°  | 4726.9 | 4373.5 | 3526.6 | 2638.1 | 1927.1 | 1492.2 | 1186.0 | 1027.2 | 921.3  | 877.0  | 882.7  |
| 10°   | 4735.5 | 4233.3 | 3011.5 | 1954.3 | 1300.5 | 964.3  | 776.8  | 701.0  | 665.3  | 659.5  | 658.1  |
| 12.5° | 4755.5 | 4080.2 | 2519.4 | 1450.7 | 909.9  | 701.0  | 629.5  | 603.7  | 592.3  | 592.3  | 588.0  |
| 15°   | 4777.0 | 3911.4 | 2110.2 | 1078.7 | 701.0  | 602.3  | 569.4  | 556.5  | 549.4  | 549.4  | 547.9  |
| 17.5° | 4777.0 | 3716.8 | 1728.2 | 836.9  | 603.7  | 553.7  | 527.9  | 510.7  | 505.0  | 505.0  | 503.6  |
| 20°   | 4746.9 | 3490.8 | 1389.2 | 673.8  | 547.9  | 507.9  | 482.1  | 463.5  | 456.4  | 453.5  | 452.1  |
| 22.5° | 4642.5 | 3188.9 | 1105.9 | 579.4  | 502.2  | 467.8  | 434.9  | 413.5  | 407.7  | 404.9  | 406.3  |
| 25°   | 4456.5 | 2848.4 | 875.6  | 509.3  | 460.7  | 419.2  | 390.6  | 374.8  | 369.1  | 369.1  | 370.5  |
| 27.5° | 4264.8 | 2492.2 | 693.9  | 456.4  | 410.6  | 373.4  | 350.5  | 340.5  | 339.1  | 343.4  | 344.8  |
| 30°   | 4087.4 | 2134.5 | 562.2  | 413.5  | 366.2  | 334.8  | 319.0  | 316.2  | 316.2  | 317.6  | 319.0  |
| 32.5° | 3889.9 | 1821.2 | 470.7  | 376.3  | 330.5  | 303.3  | 294.7  | 294.7  | 297.6  | 297.6  | 300.4  |
| 35°   | 3765.5 | 1552.3 | 413.5  | 340.5  | 303.3  | 280.4  | 274.7  | 276.1  | 280.4  | 286.1  | 289.0  |
| 37.5° | 3698.2 | 1337.7 | 376.3  | 311.9  | 277.5  | 261.8  | 256.1  | 258.9  | 269.0  | 279.0  | 280.4  |
| 40°   | 3704.0 | 1176.0 | 346.2  | 287.6  | 257.5  | 240.3  | 236.1  | 244.6  | 254.7  | 264.7  | 266.1  |
| 42.5° | 3766.9 | 1055.8 | 317.6  | 258.9  | 240.3  | 216.0  | 214.6  | 223.2  | 227.5  | 237.5  | 238.9  |
| 45°   | 3841.3 | 968.6  | 287.6  | 228.9  | 208.9  | 187.4  | 188.8  | 196.0  | 201.7  | 217.5  | 220.3  |
| 47.5° | 3864.2 | 908.5  | 253.2  | 194.6  | 171.7  | 164.5  | 166.0  | 170.2  | 181.7  | 196.0  | 197.4  |
| 50°   | 3889.9 | 871.3  | 220.3  | 164.5  | 145.9  | 144.5  | 145.9  | 148.8  | 155.9  | 161.7  | 160.2  |
| 52.5° | 4000.1 | 869.8  | 193.1  | 143.1  | 124.5  | 127.3  | 128.8  | 127.3  | 121.6  | 113.0  | 110.2  |
| 54°   | 4103.1 | 874.1  | 180.3  | 133.1  | 114.5  | 118.7  | 117.3  | 110.2  | 95.9   | 87.3   | 83.0   |
| 55°   | 4186.1 | 878.4  | 173.1  | 125.9  | 108.7  | 110.2  | 111.6  | 97.3   | 78.7   | 70.1   | 67.2   |
| 57.5° | 4349.2 | 868.4  | 155.9  | 110.2  | 95.9   | 90.1   | 88.7   | 64.4   | 42.9   | 37.2   | 34.3   |
| 60°   | 4267.6 | 784.0  | 141.6  | 94.4   | 81.5   | 73.0   | 60.1   | 35.8   | 21.5   | 15.7   | 15.7   |
| 62.5° | 3947.2 | 665.3  | 125.9  | 77.3   | 67.2   | 55.8   | 31.5   | 20.0   | 10.0   | 5.7    | 4.3    |
| 65°   | 3530.9 | 559.4  | 113.0  | 61.5   | 52.9   | 35.8   | 17.2   | 12.9   | 4.3    | 0.0    | 0.0    |
| 67.5° | 2625.2 | 414.9  | 95.9   | 48.6   | 40.1   | 22.9   | 11.4   | 7.2    | 1.4    | 0.0    | 0.0    |
| 70°   | 1216.1 | 253.2  | 81.5   | 37.2   | 28.6   | 17.2   | 8.6    | 4.3    | 0.0    | 0.0    | 0.0    |
| 72.5° | 349.1  | 158.8  | 67.2   | 27.2   | 20.0   | 14.3   | 7.2    | 2.9    | 1.4    | 0.0    | 0.0    |
| 75°   | 121.6  | 127.3  | 50.1   | 20.0   | 15.7   | 10.0   | 5.7    | 2.9    | 1.4    | 0.0    | 0.0    |
| 77.5° | 73.0   | 103.0  | 31.5   | 17.2   | 12.9   | 8.6    | 5.7    | 2.9    | 1.4    | 1.4    | 0.0    |
| 80°   | 41.5   | 68.7   | 20.0   | 14.3   | 11.4   | 7.2    | 4.3    | 2.9    | 1.4    | 1.4    | 0.0    |
| 82.5° | 22.9   | 32.9   | 15.7   | 12.9   | 10.0   | 7.2    | 4.3    | 2.9    | 1.4    | 1.4    | 1.4    |
| 85°   | 18.6   | 17.2   | 12.9   | 11.4   | 8.6    | 5.7    | 4.3    | 1.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.3   | 11.4   | 11.4   | 11.4   | 8.6    | 5.7    | 4.3    | 1.4    | 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    | 0.0    |

(END OF REPORT)