

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: P457649

Luminaire Tested: **GLAN-SA9A-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30901 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 274  
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

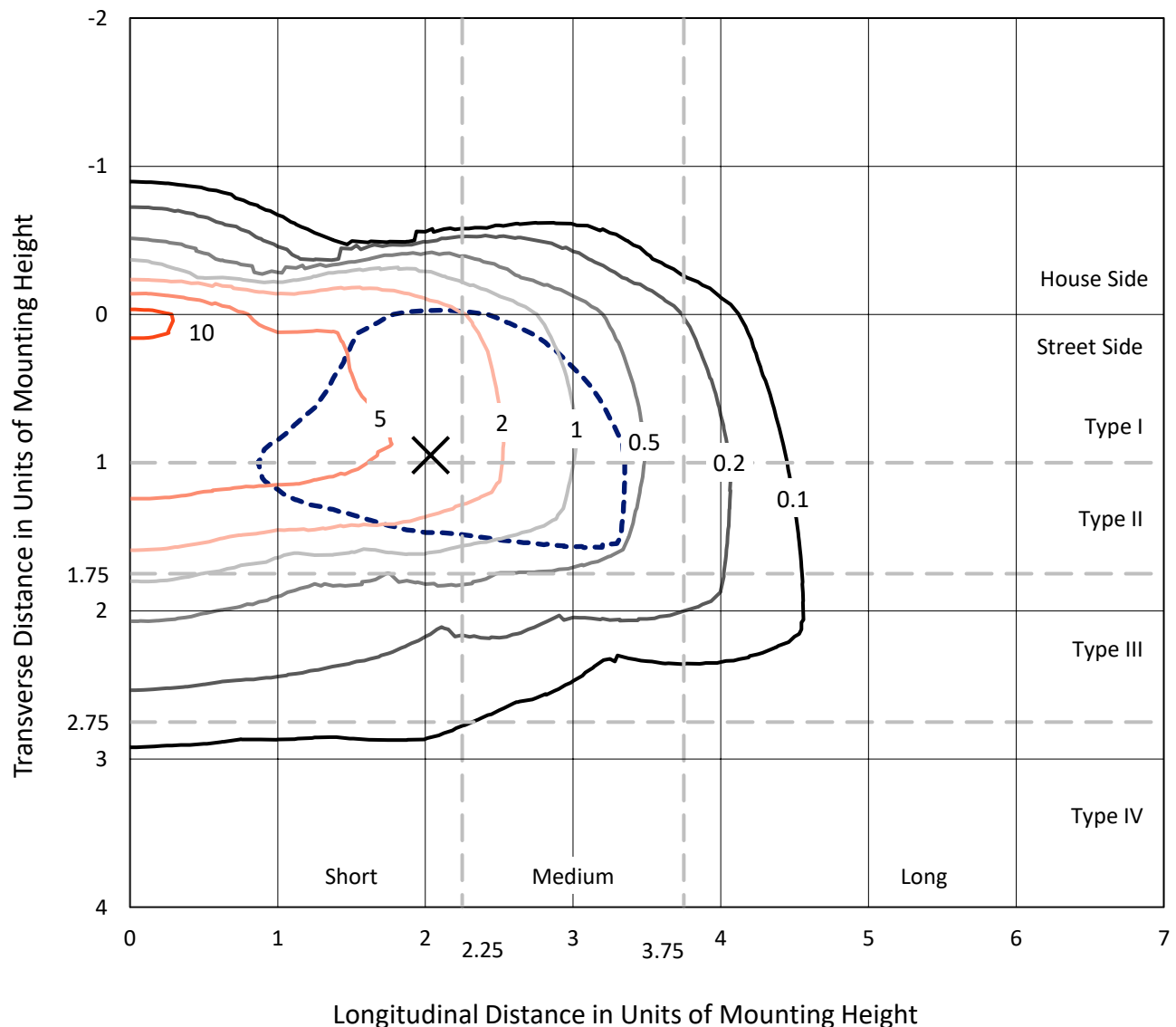


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

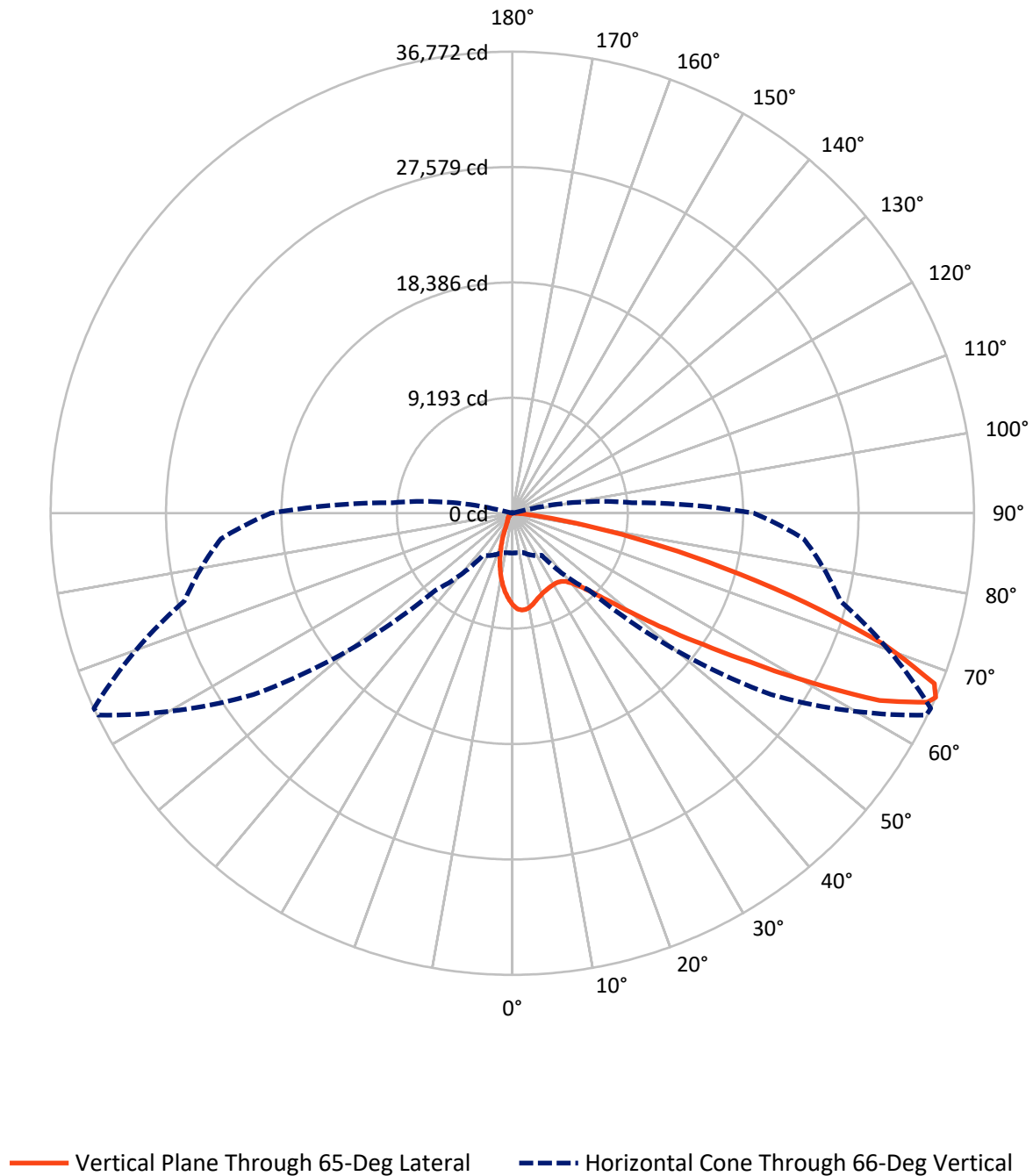


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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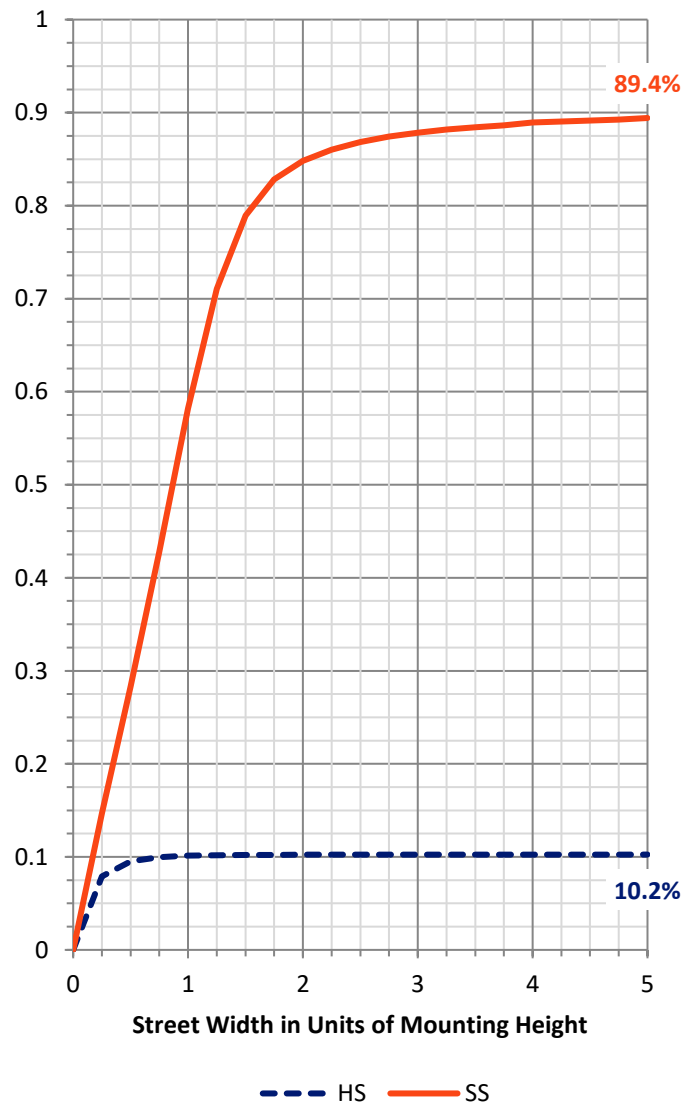
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3195.6   | 0.0    | 3195.6  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 27705.4  | 0.0    | 27705.4 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 30901.0  | 0.0    | 30901.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 599.3   | 1.9       |
| 10°-20°   | 1305.8  | 4.2       |
| 20°-30°   | 1870.5  | 6.1       |
| 30°-40°   | 2732.1  | 8.8       |
| 40°-50°   | 4581.2  | 14.8      |
| 50°-60°   | 7645.3  | 24.7      |
| 60°-70°   | 8115.3  | 26.3      |
| 70°-80°   | 3675.4  | 11.9      |
| 80°-90°   | 376.1   | 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°    | 30901.0 | 100.0     |
| 0°-180°   | 30901.0 | 100.0     |

**Coefficient of Utilization**



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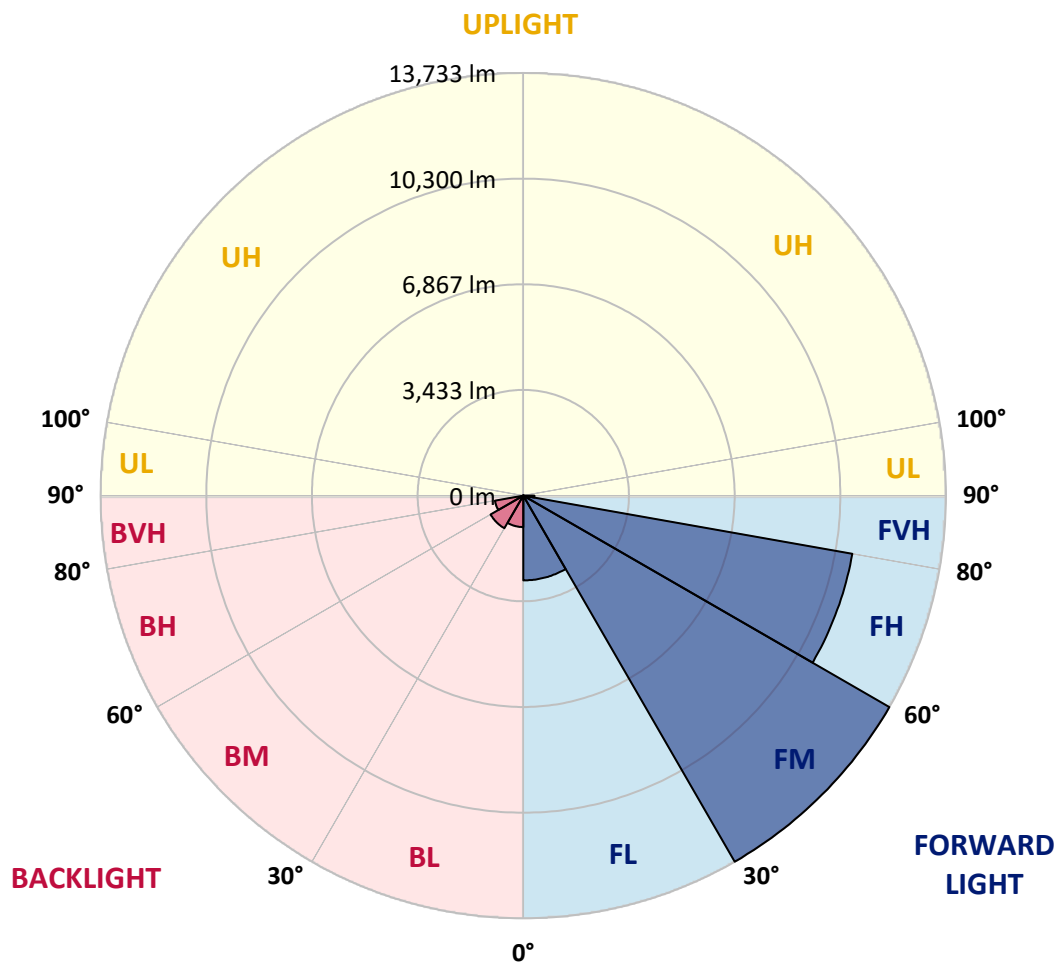
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2753.4  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 13733.1 | 44.4      |                         |      |          |
| FH   | (60°-80°)   | 10854.8 | 35.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 364.1   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1022.2  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1225.5  | 4.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 935.8   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 12.0    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  | 7327.8  |
| 2.5°  | 7722.2  | 7730.6  | 7741.0  | 7755.6  | 7766.1  | 7734.7  | 7690.9  | 7640.8  | 7630.4  | 7524.0  | 7394.6  |
| 5°    | 7309.0  | 7321.5  | 7413.3  | 7463.4  | 7576.1  | 7678.4  | 7743.1  | 7751.4  | 7747.3  | 7647.1  | 7440.5  |
| 7.5°  | 6720.4  | 6755.9  | 6845.6  | 6933.3  | 7144.1  | 7338.2  | 7567.8  | 7728.5  | 7738.9  | 7711.8  | 7455.1  |
| 10°   | 6242.5  | 6265.4  | 6311.4  | 6484.6  | 6659.9  | 6956.3  | 7277.7  | 7580.3  | 7605.3  | 7713.9  | 7442.6  |
| 12.5° | 5868.9  | 5902.3  | 5958.6  | 6092.2  | 6303.0  | 6582.7  | 6947.9  | 7354.9  | 7407.1  | 7674.2  | 7407.1  |
| 15°   | 5608.0  | 5624.7  | 5681.1  | 5812.5  | 6017.1  | 6275.9  | 6645.3  | 7119.1  | 7165.0  | 7622.0  | 7400.8  |
| 17.5° | 5484.9  | 5503.7  | 5543.3  | 5647.7  | 5816.7  | 6056.7  | 6417.8  | 6929.1  | 6987.6  | 7588.7  | 7423.8  |
| 20°   | 5518.3  | 5535.0  | 5537.0  | 5591.3  | 5706.1  | 5908.5  | 6250.8  | 6751.7  | 6826.9  | 7567.8  | 7461.3  |
| 22.5° | 5708.2  | 5710.3  | 5685.2  | 5660.2  | 5699.8  | 5845.9  | 6148.6  | 6639.0  | 6716.2  | 7563.6  | 7505.2  |
| 25°   | 5992.0  | 5998.3  | 5956.5  | 5868.9  | 5789.6  | 5864.7  | 6125.6  | 6566.0  | 6634.9  | 7553.2  | 7532.3  |
| 27.5° | 6384.4  | 6382.3  | 6369.8  | 6223.7  | 5998.3  | 5948.2  | 6144.4  | 6526.3  | 6584.8  | 7524.0  | 7542.7  |
| 30°   | 6933.3  | 6916.6  | 6889.5  | 6724.6  | 6380.2  | 6150.6  | 6223.7  | 6501.3  | 6555.5  | 7482.2  | 7515.6  |
| 32.5° | 7473.9  | 7536.5  | 7532.3  | 7375.8  | 6945.8  | 6511.7  | 6388.6  | 6534.7  | 6574.3  | 7455.1  | 7476.0  |
| 35°   | 8104.2  | 8102.1  | 8262.8  | 8204.3  | 7701.4  | 6973.0  | 6670.3  | 6645.3  | 6676.6  | 7473.9  | 7457.2  |
| 37.5° | 8688.5  | 8742.8  | 8993.3  | 9053.8  | 8594.6  | 7624.1  | 7069.0  | 6883.2  | 6893.7  | 7601.2  | 7503.1  |
| 40°   | 9416.9  | 9521.3  | 9894.9  | 10097.3 | 9692.4  | 8590.5  | 7657.5  | 7319.4  | 7321.5  | 7914.2  | 7676.3  |
| 42.5° | 10356.1 | 10521.0 | 10869.6 | 11207.7 | 10990.6 | 9734.2  | 8540.4  | 8010.2  | 8006.1  | 8465.2  | 8072.9  |
| 45°   | 11497.8 | 11612.6 | 12009.1 | 12545.5 | 12407.7 | 11330.8 | 9826.0  | 9080.9  | 9026.7  | 9368.9  | 8776.2  |
| 47.5° | 12482.9 | 12639.4 | 13042.2 | 13653.7 | 14279.9 | 13280.1 | 11362.1 | 10552.3 | 10516.8 | 10806.9 | 9982.5  |
| 50°   | 12912.8 | 13050.6 | 13474.2 | 14332.0 | 15849.3 | 15838.9 | 13649.6 | 12699.9 | 12639.4 | 12795.9 | 11848.4 |
| 52.5° | 12441.1 | 12570.5 | 12998.4 | 14067.0 | 16588.2 | 18957.0 | 16963.9 | 15394.4 | 15321.3 | 15121.0 | 14077.4 |
| 55°   | 10825.7 | 10932.2 | 11564.6 | 12791.8 | 16304.3 | 21035.8 | 21530.4 | 18723.3 | 18439.4 | 17660.9 | 16600.7 |
| 57.5° | 8619.7  | 8565.4  | 8957.8  | 10383.3 | 14638.8 | 21732.8 | 26218.0 | 22870.3 | 22363.2 | 19856.6 | 18735.8 |
| 60°   | 5973.2  | 6140.2  | 6298.8  | 7238.0  | 11007.3 | 20524.4 | 29133.7 | 28083.9 | 27416.0 | 22016.7 | 20781.1 |
| 62.5° | 4391.2  | 4501.8  | 4606.2  | 5040.3  | 6920.8  | 16387.8 | 29649.2 | 33439.3 | 32846.6 | 24310.4 | 22732.6 |
| 65°   | 3472.9  | 3481.3  | 3523.0  | 3950.9  | 4560.3  | 10656.7 | 27171.8 | 36459.3 | 36307.0 | 26518.5 | 23523.6 |
| 66°   | 3164.0  | 3166.1  | 3230.8  | 3690.0  | 4092.8  | 8678.1  | 25187.0 | 36688.9 | 36772.4 | 27048.7 | 23291.9 |
| 67.5° | 2765.4  | 2757.0  | 2851.0  | 3316.4  | 3727.5  | 6257.1  | 21634.8 | 35758.1 | 36252.7 | 27455.6 | 22459.2 |
| 70°   | 2143.4  | 2133.0  | 2247.8  | 2782.1  | 3433.3  | 4174.2  | 14380.0 | 30703.2 | 31500.4 | 26622.9 | 19871.2 |
| 72.5° | 1427.6  | 1435.9  | 1632.1  | 2195.6  | 3276.7  | 3675.4  | 8651.0  | 23356.6 | 24483.6 | 21985.4 | 15632.3 |
| 75°   | 832.7   | 847.4   | 1070.7  | 1632.1  | 2844.7  | 3504.2  | 4896.3  | 16655.0 | 17375.0 | 15181.5 | 9738.4  |
| 77.5° | 436.2   | 442.5   | 599.0   | 1076.9  | 2181.0  | 3253.8  | 3262.1  | 10640.0 | 10978.1 | 7377.9  | 3854.9  |
| 80°   | 231.7   | 225.4   | 321.4   | 649.1   | 1500.6  | 2857.2  | 2646.4  | 5633.1  | 5856.4  | 2191.4  | 974.7   |
| 82.5° | 87.7    | 96.0    | 171.1   | 425.8   | 887.0   | 2051.6  | 2279.1  | 2489.9  | 2412.7  | 482.1   | 409.1   |
| 85°   | 16.7    | 20.9    | 73.0    | 252.5   | 446.6   | 857.8   | 1680.1  | 1220.9  | 1131.2  | 181.6   | 235.8   |
| 87.5° | 2.1     | 4.2     | 20.9    | 60.5    | 64.7    | 290.1   | 496.7   | 338.1   | 292.2   | 66.8    | 98.1    |
| 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°    | 7327.8  | 7327.8  | 7327.8 | 7327.8 | 7327.8 | 7327.8 | 7327.8 | 7327.8 | 7327.8 | 7327.8 | 7327.8 |
| 2.5°  | 7331.9  | 7275.6  | 7087.8 | 6902.0 | 6712.1 | 6540.9 | 6424.1 | 6234.1 | 6186.1 | 6117.3 | 6077.6 |
| 5°    | 7317.3  | 7185.8  | 6824.8 | 6430.3 | 6063.0 | 5666.4 | 5363.8 | 5071.6 | 4915.1 | 4835.8 | 4806.6 |
| 7.5°  | 7275.6  | 7066.9  | 6503.4 | 5885.6 | 5297.0 | 4704.3 | 4188.8 | 3796.4 | 3543.9 | 3370.6 | 3253.8 |
| 10°   | 7192.1  | 6904.1  | 6129.8 | 5280.3 | 4391.2 | 3608.6 | 2955.3 | 2458.6 | 2074.6 | 1953.5 | 1957.7 |
| 12.5° | 7106.5  | 6722.5  | 5712.4 | 4608.3 | 3506.3 | 2519.1 | 1826.2 | 1433.8 | 1250.2 | 1189.6 | 1177.1 |
| 15°   | 7027.2  | 6549.3  | 5303.3 | 3957.1 | 2610.9 | 1632.1 | 1177.1 | 1039.4 | 989.3  | 978.8  | 976.8  |
| 17.5° | 6985.5  | 6388.6  | 4867.1 | 3212.0 | 1822.0 | 1108.2 | 943.4  | 905.8  | 891.2  | 880.8  | 876.6  |
| 20°   | 6950.0  | 6248.7  | 4449.7 | 2514.9 | 1246.0 | 907.9  | 845.3  | 809.8  | 784.7  | 774.3  | 768.0  |
| 22.5° | 6925.0  | 6104.7  | 4017.6 | 1947.3 | 953.8  | 805.6  | 749.3  | 703.3  | 667.9  | 655.3  | 647.0  |
| 25°   | 6887.4  | 5946.1  | 3581.4 | 1423.4 | 803.5  | 715.9  | 651.2  | 596.9  | 551.0  | 528.0  | 523.9  |
| 27.5° | 6833.1  | 5766.6  | 3103.5 | 1054.0 | 718.0  | 636.6  | 557.3  | 490.5  | 444.5  | 419.5  | 421.6  |
| 30°   | 6745.5  | 5578.8  | 2625.6 | 836.9  | 649.1  | 555.2  | 469.6  | 404.9  | 361.1  | 342.3  | 340.2  |
| 32.5° | 6641.1  | 5351.3  | 2187.3 | 718.0  | 586.5  | 482.1  | 392.4  | 336.0  | 302.6  | 288.0  | 285.9  |
| 35°   | 6543.0  | 5121.7  | 1740.6 | 644.9  | 521.8  | 415.3  | 329.8  | 281.8  | 256.7  | 244.2  | 246.3  |
| 37.5° | 6488.8  | 4917.2  | 1356.6 | 586.5  | 469.6  | 356.9  | 283.8  | 242.1  | 219.1  | 208.7  | 206.6  |
| 40°   | 6524.2  | 4750.2  | 1079.0 | 534.3  | 411.2  | 306.8  | 244.2  | 208.7  | 185.8  | 171.1  | 171.1  |
| 42.5° | 6691.2  | 4677.2  | 870.3  | 484.2  | 356.9  | 265.1  | 212.9  | 179.5  | 154.4  | 139.8  | 141.9  |
| 45°   | 7200.5  | 4754.4  | 728.4  | 438.3  | 306.8  | 229.6  | 183.7  | 148.2  | 125.2  | 114.8  | 112.7  |
| 47.5° | 8045.7  | 5044.5  | 630.3  | 390.3  | 263.0  | 196.2  | 154.4  | 123.1  | 100.2  | 91.8   | 89.7   |
| 50°   | 9523.4  | 5643.5  | 557.3  | 342.3  | 223.3  | 167.0  | 127.3  | 98.1   | 79.3   | 71.0   | 71.0   |
| 52.5° | 11556.2 | 6950.0  | 505.1  | 288.0  | 187.8  | 141.9  | 104.4  | 79.3   | 62.6   | 56.4   | 54.3   |
| 55°   | 13680.9 | 8327.5  | 477.9  | 242.1  | 156.5  | 116.9  | 83.5   | 62.6   | 48.0   | 41.7   | 39.7   |
| 57.5° | 15724.1 | 9408.6  | 446.6  | 196.2  | 125.2  | 89.7   | 64.7   | 48.0   | 33.4   | 29.2   | 27.1   |
| 60°   | 17683.9 | 10283.1 | 379.9  | 156.5  | 98.1   | 64.7   | 48.0   | 33.4   | 23.0   | 18.8   | 18.8   |
| 62.5° | 19437.1 | 10792.3 | 298.5  | 125.2  | 75.1   | 45.9   | 31.3   | 25.0   | 16.7   | 12.5   | 12.5   |
| 65°   | 19641.6 | 10130.7 | 225.4  | 96.0   | 54.3   | 29.2   | 18.8   | 18.8   | 12.5   | 8.3    | 8.3    |
| 66°   | 19230.4 | 9569.3  | 198.3  | 87.7   | 48.0   | 25.0   | 16.7   | 14.6   | 10.4   | 6.3    | 6.3    |
| 67.5° | 18312.1 | 8611.3  | 171.1  | 75.1   | 39.7   | 18.8   | 12.5   | 12.5   | 8.3    | 4.2    | 4.2    |
| 70°   | 15822.2 | 7033.5  | 135.7  | 56.4   | 29.2   | 14.6   | 8.3    | 8.3    | 6.3    | 4.2    | 4.2    |
| 72.5° | 12059.2 | 5251.1  | 110.6  | 41.7   | 20.9   | 10.4   | 6.3    | 6.3    | 6.3    | 4.2    | 4.2    |
| 75°   | 7273.5  | 2828.0  | 85.6   | 31.3   | 18.8   | 8.3    | 4.2    | 6.3    | 8.3    | 6.3    | 4.2    |
| 77.5° | 2679.8  | 962.1   | 66.8   | 25.0   | 14.6   | 8.3    | 4.2    | 4.2    | 8.3    | 6.3    | 6.3    |
| 80°   | 657.4   | 250.5   | 48.0   | 20.9   | 14.6   | 8.3    | 4.2    | 4.2    | 8.3    | 8.3    | 8.3    |
| 82.5° | 304.7   | 106.4   | 33.4   | 18.8   | 14.6   | 8.3    | 4.2    | 4.2    | 6.3    | 8.3    | 8.3    |
| 85°   | 175.3   | 50.1    | 27.1   | 20.9   | 14.6   | 8.3    | 4.2    | 4.2    | 6.3    | 8.3    | 8.3    |
| 87.5° | 71.0    | 25.0    | 25.0   | 20.9   | 16.7   | 10.4   | 4.2    | 4.2    | 4.2    | 6.3    | 6.3    |
| 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)