

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: P527712

Luminaire Tested: **GLAN-SA2D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12008 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 125  
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



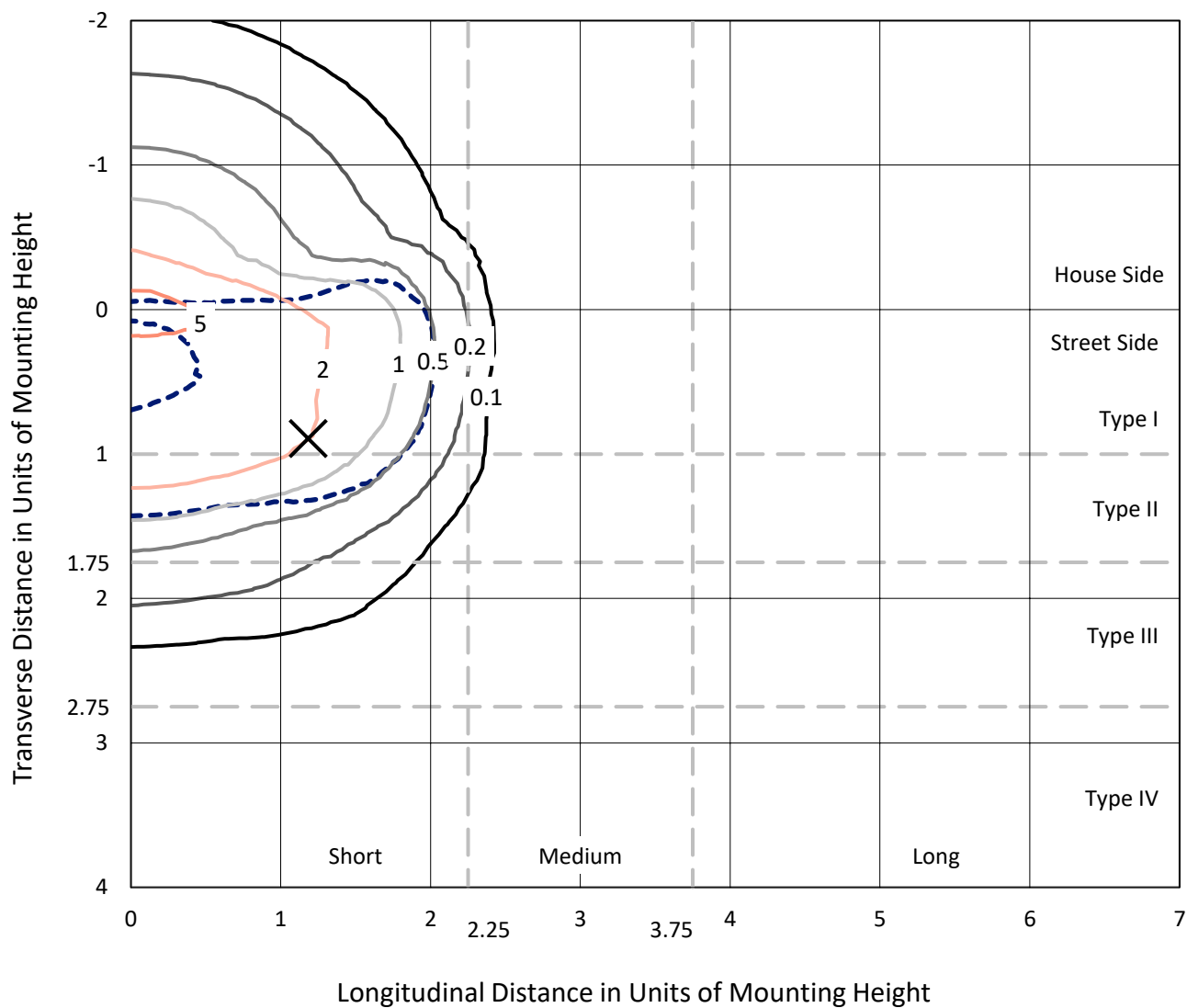
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

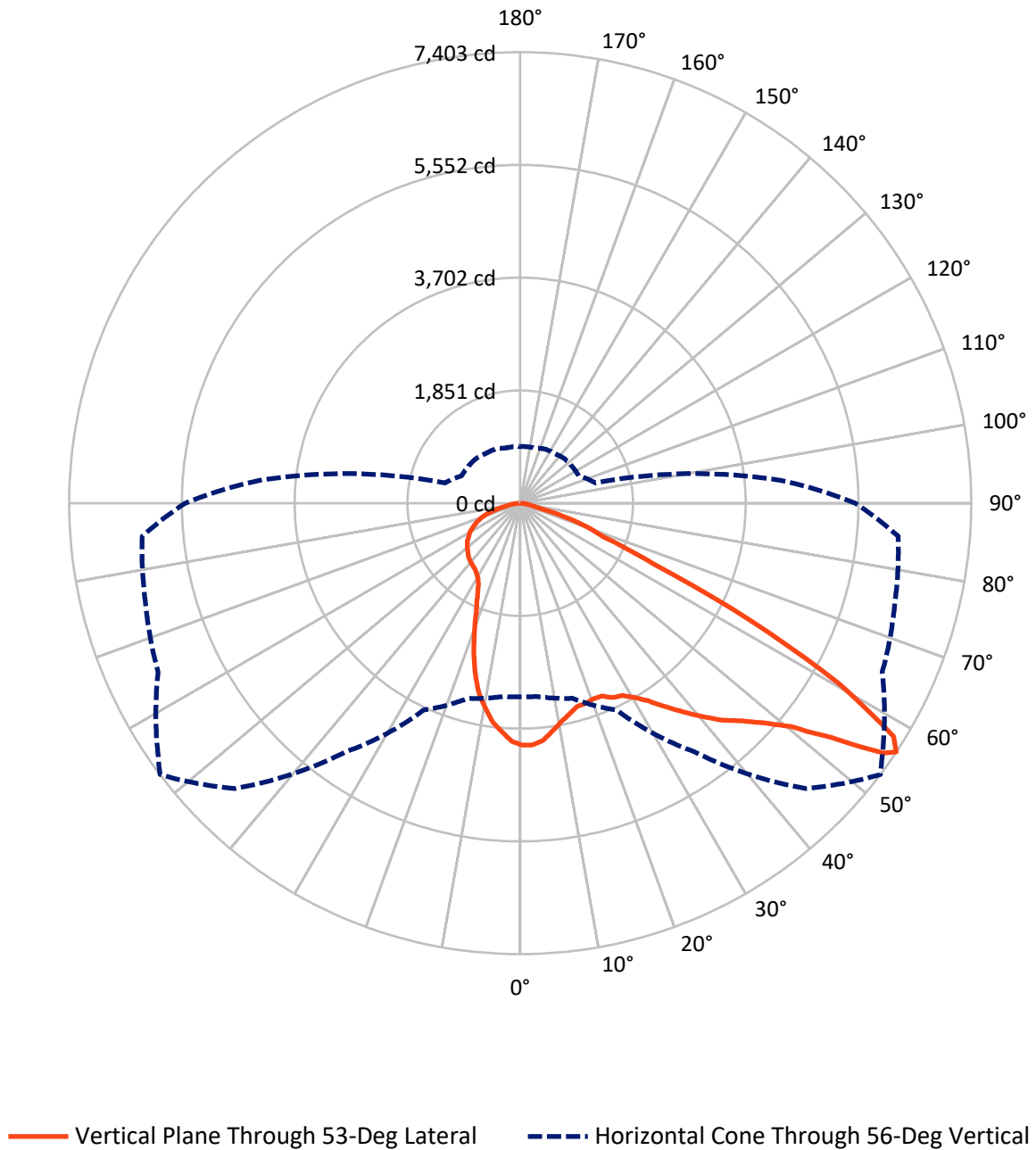
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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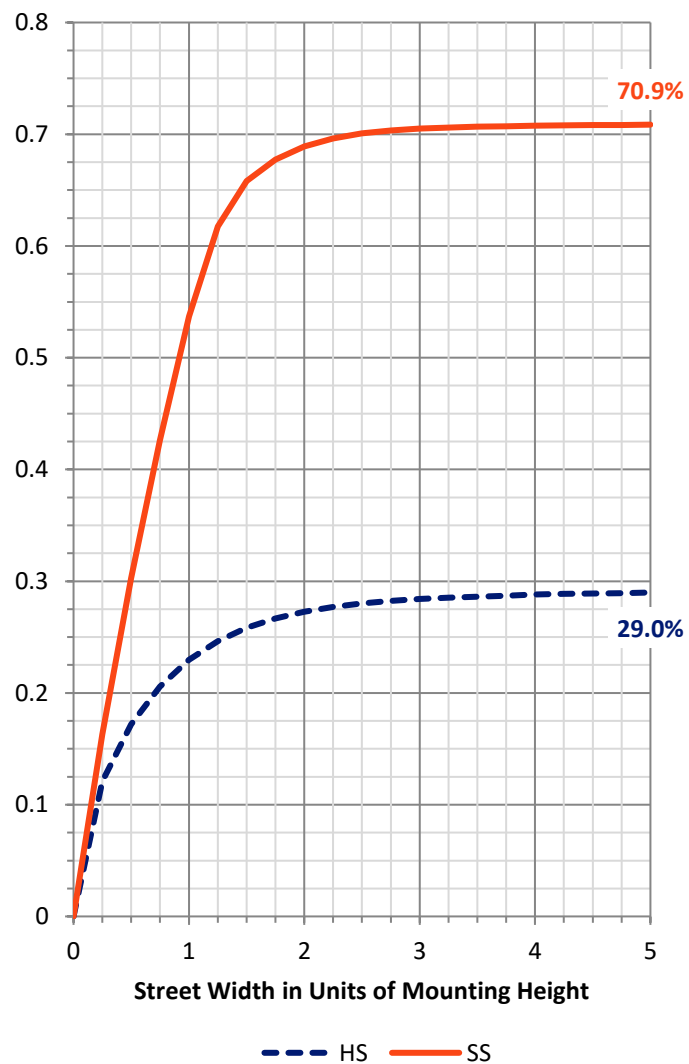
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3504.2   | 0.0    | 3504.2  |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 8503.8   | 0.0    | 8503.8  |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 12008.0  | 0.0    | 12008.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 351.7   | 2.9       |
| 10°-20°   | 878.4   | 7.3       |
| 20°-30°   | 1295.3  | 10.8      |
| 30°-40°   | 1850.7  | 15.4      |
| 40°-50°   | 2547.2  | 21.2      |
| 50°-60°   | 3010.1  | 25.1      |
| 60°-70°   | 1604.2  | 13.4      |
| 70°-80°   | 407.0   | 3.4       |
| 80°-90°   | 63.5    | 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°    | 12008.0 | 100.0     |
| 0°-180°   | 12008.0 | 100.0     |

**Coefficient of Utilization**



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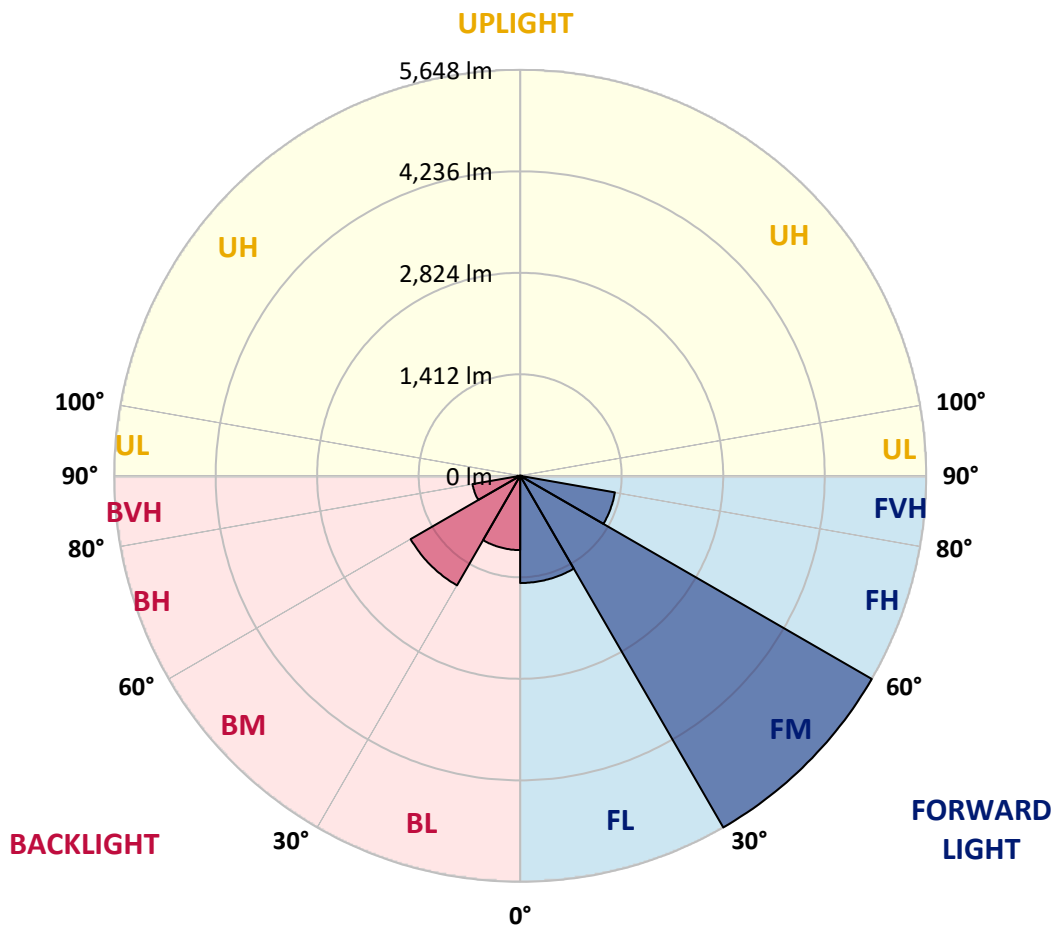
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1491.8 | 12.4      |                         |      |         |
| FM   | (30°-60°)   | 5648.3 | 47.0      |                         |      |         |
| FH   | (60°-80°)   | 1338.1 | 11.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 25.5   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1033.5 | 8.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1759.7 | 14.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 673.0  | 5.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 38.0   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 |
| 2.5°  | 3923.4 | 3889.5 | 3909.6 | 3901.9 | 3965.0 | 3983.5 | 3974.3 | 3982.0 | 4017.4 | 4000.4 | 3965.0 |
| 5°    | 3666.2 | 3713.9 | 3723.2 | 3746.3 | 3783.2 | 3855.6 | 3912.6 | 3928.0 | 3945.0 | 4023.6 | 4015.9 |
| 7.5°  | 3432.0 | 3464.4 | 3447.4 | 3515.2 | 3595.3 | 3712.4 | 3781.7 | 3794.0 | 3949.6 | 3992.7 | 4025.1 |
| 10°   | 3284.2 | 3251.8 | 3328.8 | 3347.3 | 3438.2 | 3572.2 | 3655.4 | 3706.2 | 3847.9 | 4018.9 | 4039.0 |
| 12.5° | 3147.1 | 3136.3 | 3182.5 | 3234.9 | 3336.5 | 3475.2 | 3559.9 | 3579.9 | 3798.7 | 3978.9 | 4072.8 |
| 15°   | 3045.4 | 3033.1 | 3079.3 | 3117.8 | 3236.4 | 3359.6 | 3467.5 | 3524.5 | 3744.7 | 3955.8 | 4043.6 |
| 17.5° | 2965.3 | 2963.8 | 2989.9 | 3059.3 | 3180.9 | 3284.2 | 3458.2 | 3461.3 | 3717.0 | 3991.2 | 4068.2 |
| 20°   | 2960.7 | 2959.1 | 2963.8 | 3040.8 | 3151.7 | 3278.0 | 3429.0 | 3456.7 | 3717.0 | 3966.6 | 4069.8 |
| 22.5° | 2999.2 | 2974.5 | 3002.3 | 3051.6 | 3131.7 | 3288.8 | 3439.7 | 3501.4 | 3806.4 | 4088.3 | 4139.1 |
| 25°   | 3060.8 | 3067.0 | 3082.4 | 3099.3 | 3145.5 | 3313.4 | 3535.2 | 3586.1 | 3911.1 | 4193.0 | 4234.6 |
| 27.5° | 3173.2 | 3170.2 | 3176.3 | 3185.6 | 3225.6 | 3336.5 | 3573.8 | 3704.7 | 4129.8 | 4379.4 | 4337.8 |
| 30°   | 3338.1 | 3327.3 | 3351.9 | 3384.3 | 3347.3 | 3410.5 | 3701.6 | 3800.2 | 4333.2 | 4567.3 | 4453.3 |
| 32.5° | 3487.5 | 3527.5 | 3573.8 | 3587.6 | 3542.9 | 3555.3 | 3871.1 | 3971.2 | 4502.6 | 4798.4 | 4595.0 |
| 35°   | 3673.9 | 3706.2 | 3767.8 | 3811.0 | 3803.3 | 3766.3 | 4102.1 | 4234.6 | 4747.5 | 4967.8 | 4744.5 |
| 37.5° | 3855.6 | 3894.2 | 3995.8 | 4123.7 | 4052.8 | 4035.9 | 4348.6 | 4457.9 | 4823.0 | 5058.7 | 4853.8 |
| 40°   | 4148.3 | 4146.8 | 4322.4 | 4388.6 | 4451.8 | 4422.5 | 4604.3 | 4641.3 | 4863.1 | 5038.7 | 4856.9 |
| 42.5° | 4491.8 | 4470.3 | 4649.0 | 4752.2 | 4833.8 | 4836.9 | 4870.8 | 4858.5 | 4881.6 | 4937.0 | 4824.6 |
| 45°   | 4818.4 | 4864.6 | 5044.8 | 5229.7 | 5311.3 | 5320.6 | 5095.7 | 5072.6 | 4913.9 | 4907.7 | 4763.0 |
| 47.5° | 5217.4 | 5228.2 | 5376.0 | 5619.4 | 5808.9 | 5744.2 | 5386.8 | 5336.0 | 5055.6 | 5103.4 | 4866.2 |
| 50°   | 5240.5 | 5320.6 | 5453.1 | 5739.6 | 6321.8 | 6304.9 | 5764.2 | 5668.7 | 5283.6 | 5380.7 | 5154.2 |
| 52.5° | 4756.8 | 4738.3 | 4895.4 | 5363.7 | 6283.3 | 6862.5 | 6389.6 | 6161.6 | 5773.5 | 5699.5 | 5621.0 |
| 55°   | 3624.6 | 3667.7 | 3806.4 | 4279.3 | 5456.1 | 6870.2 | 7241.5 | 7055.1 | 6297.2 | 6170.9 | 6080.0 |
| 56°   | 3179.4 | 3185.6 | 3316.5 | 3747.8 | 4978.6 | 6625.3 | 7403.2 | 7252.3 | 6557.5 | 6365.0 | 6226.3 |
| 57.5° | 2635.6 | 2600.2 | 2668.0 | 2903.7 | 4202.2 | 6107.7 | 7226.1 | 7373.9 | 6862.5 | 6574.5 | 6381.9 |
| 60°   | 2074.9 | 2067.2 | 2039.5 | 2082.6 | 2655.7 | 4601.2 | 6015.3 | 6348.0 | 6831.7 | 6377.3 | 6112.4 |
| 62.5° | 1694.5 | 1655.9 | 1711.4 | 1773.0 | 1845.4 | 2854.4 | 4226.9 | 4422.5 | 5423.8 | 5091.1 | 4592.0 |
| 65°   | 1314.0 | 1295.5 | 1364.8 | 1565.1 | 1608.2 | 1813.1 | 2407.7 | 2558.6 | 3202.5 | 3145.5 | 2769.7 |
| 67.5° | 904.2  | 907.3  | 967.4  | 1272.4 | 1491.1 | 1472.6 | 1474.2 | 1552.7 | 1671.3 | 1241.6 | 1081.4 |
| 70°   | 573.0  | 571.5  | 603.8  | 819.5  | 1200.0 | 1212.3 | 1150.7 | 1127.6 | 1069.0 | 647.0  | 685.5  |
| 72.5° | 368.2  | 357.4  | 374.3  | 452.9  | 620.8  | 717.8  | 739.4  | 753.3  | 619.2  | 508.3  | 551.5  |
| 75°   | 208.0  | 197.2  | 191.0  | 211.0  | 244.9  | 283.4  | 311.2  | 320.4  | 358.9  | 385.1  | 408.2  |
| 77.5° | 63.2   | 57.0   | 69.3   | 92.4   | 121.7  | 163.3  | 198.7  | 204.9  | 241.8  | 272.7  | 295.8  |
| 80°   | 27.7   | 30.8   | 43.1   | 61.6   | 86.3   | 115.5  | 140.2  | 149.4  | 174.1  | 197.2  | 203.3  |
| 82.5° | 16.9   | 18.5   | 29.3   | 41.6   | 60.1   | 81.6   | 100.1  | 103.2  | 127.9  | 146.3  | 151.0  |
| 85°   | 6.2    | 7.7    | 15.4   | 24.6   | 38.5   | 52.4   | 52.4   | 57.0   | 52.4   | 52.4   | 57.0   |
| 87.5° | 0.0    | 0.0    | 1.5    | 3.1    | 3.1    | 4.6    | 6.2    | 6.2    | 7.7    | 9.2    | 10.8   |
| 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°    | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 | 3972.7 |
| 2.5°  | 3983.5 | 3975.8 | 3963.5 | 3918.8 | 3914.2 | 3900.3 | 3823.3 | 3811.0 | 3823.3 | 3786.3 | 3789.4 |
| 5°    | 3975.8 | 3998.9 | 3906.5 | 3861.8 | 3778.6 | 3718.6 | 3649.2 | 3613.8 | 3550.6 | 3510.6 | 3555.3 |
| 7.5°  | 4009.7 | 4000.4 | 3884.9 | 3787.9 | 3663.1 | 3510.6 | 3388.9 | 3319.6 | 3208.7 | 3177.9 | 3201.0 |
| 10°   | 3997.4 | 3948.1 | 3812.5 | 3684.7 | 3449.0 | 3315.0 | 3117.8 | 2926.8 | 2822.0 | 2768.1 | 2760.4 |
| 12.5° | 3980.4 | 3966.6 | 3740.1 | 3519.8 | 3271.8 | 2989.9 | 2712.7 | 2532.4 | 2361.4 | 2287.5 | 2298.3 |
| 15°   | 4000.4 | 3883.4 | 3604.6 | 3325.7 | 2996.1 | 2626.4 | 2327.6 | 2095.0 | 1976.3 | 1928.6 | 1928.6 |
| 17.5° | 3991.2 | 3843.3 | 3539.9 | 3108.5 | 2691.1 | 2253.6 | 1925.5 | 1785.3 | 1736.0 | 1736.0 | 1749.9 |
| 20°   | 3995.8 | 3869.5 | 3408.9 | 2891.4 | 2330.6 | 1897.8 | 1659.0 | 1608.2 | 1629.8 | 1637.5 | 1645.2 |
| 22.5° | 4022.0 | 3783.2 | 3281.1 | 2652.6 | 1996.4 | 1623.6 | 1506.5 | 1508.1 | 1546.6 | 1588.2 | 1580.5 |
| 25°   | 4054.4 | 3749.4 | 3125.5 | 2415.4 | 1740.7 | 1489.6 | 1452.6 | 1448.0 | 1477.3 | 1498.8 | 1501.9 |
| 27.5° | 4026.6 | 3690.8 | 2966.8 | 2119.6 | 1531.2 | 1400.2 | 1392.5 | 1395.6 | 1404.9 | 1448.0 | 1434.1 |
| 30°   | 4117.5 | 3707.8 | 2768.1 | 1871.6 | 1415.6 | 1371.0 | 1361.7 | 1357.1 | 1371.0 | 1383.3 | 1372.5 |
| 32.5° | 4230.0 | 3647.7 | 2620.2 | 1632.8 | 1358.6 | 1349.4 | 1330.9 | 1324.8 | 1332.5 | 1320.1 | 1326.3 |
| 35°   | 4279.3 | 3636.9 | 2427.7 | 1461.8 | 1314.0 | 1306.3 | 1295.5 | 1293.9 | 1295.5 | 1284.7 | 1275.5 |
| 37.5° | 4307.0 | 3687.7 | 2207.4 | 1383.3 | 1286.2 | 1293.9 | 1269.3 | 1266.2 | 1238.5 | 1244.7 | 1249.3 |
| 40°   | 4354.7 | 3609.2 | 2028.7 | 1307.8 | 1269.3 | 1253.9 | 1232.3 | 1227.7 | 1209.2 | 1198.4 | 1209.2 |
| 42.5° | 4285.4 | 3586.1 | 1853.1 | 1275.5 | 1244.7 | 1227.7 | 1212.3 | 1186.1 | 1180.0 | 1170.7 | 1164.6 |
| 45°   | 4230.0 | 3453.6 | 1696.0 | 1235.4 | 1215.4 | 1206.1 | 1176.9 | 1149.1 | 1126.0 | 1135.3 | 1121.4 |
| 47.5° | 4271.6 | 3407.4 | 1540.4 | 1201.5 | 1175.3 | 1164.6 | 1135.3 | 1113.7 | 1090.6 | 1079.8 | 1076.7 |
| 50°   | 4437.9 | 3493.7 | 1409.5 | 1176.9 | 1141.4 | 1135.3 | 1096.8 | 1072.1 | 1050.6 | 1042.9 | 1045.9 |
| 52.5° | 4835.3 | 3729.3 | 1320.1 | 1126.0 | 1109.1 | 1081.4 | 1059.8 | 1029.0 | 1015.1 | 990.5  | 1005.9 |
| 55°   | 5339.1 | 4112.9 | 1297.0 | 1078.3 | 1069.0 | 1044.4 | 1015.1 | 992.0  | 965.8  | 945.8  | 941.2  |
| 56°   | 5500.8 | 4296.2 | 1278.5 | 1059.8 | 1044.4 | 1030.5 | 992.0  | 978.2  | 936.6  | 931.9  | 928.9  |
| 57.5° | 5631.7 | 4457.9 | 1281.6 | 1024.4 | 1009.0 | 996.6  | 973.5  | 939.7  | 911.9  | 895.0  | 902.7  |
| 60°   | 5336.0 | 4173.0 | 1223.1 | 970.5  | 967.4  | 944.3  | 911.9  | 896.5  | 862.6  | 842.6  | 838.0  |
| 62.5° | 3966.6 | 2832.8 | 992.0  | 901.1  | 899.6  | 875.0  | 838.0  | 821.0  | 814.9  | 787.1  | 787.1  |
| 65°   | 2284.4 | 1776.1 | 858.0  | 844.1  | 831.8  | 807.2  | 770.2  | 756.3  | 740.9  | 731.7  | 724.0  |
| 67.5° | 975.1  | 921.2  | 779.4  | 777.9  | 764.0  | 733.2  | 696.3  | 674.7  | 654.7  | 636.2  | 645.4  |
| 70°   | 707.0  | 717.8  | 704.0  | 696.3  | 679.3  | 640.8  | 608.5  | 582.3  | 551.5  | 539.1  | 548.4  |
| 72.5° | 560.7  | 583.8  | 603.8  | 605.4  | 585.4  | 540.7  | 505.3  | 469.8  | 435.9  | 419.0  | 426.7  |
| 75°   | 425.2  | 440.6  | 460.6  | 465.2  | 435.9  | 405.1  | 371.2  | 334.3  | 308.1  | 288.1  | 291.1  |
| 77.5° | 306.5  | 303.5  | 321.9  | 318.9  | 305.0  | 283.4  | 252.6  | 218.7  | 189.5  | 171.0  | 172.5  |
| 80°   | 209.5  | 214.1  | 224.9  | 223.4  | 206.4  | 192.6  | 169.4  | 141.7  | 120.2  | 104.7  | 101.7  |
| 82.5° | 146.3  | 154.0  | 163.3  | 155.6  | 141.7  | 127.9  | 110.9  | 90.9   | 73.9   | 61.6   | 58.5   |
| 85°   | 52.4   | 60.1   | 69.3   | 73.9   | 78.6   | 75.5   | 63.2   | 50.8   | 37.0   | 30.8   | 29.3   |
| 87.5° | 10.8   | 12.3   | 13.9   | 13.9   | 13.9   | 12.3   | 10.8   | 10.8   | 9.2    | 4.6    | 4.6    |
| 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)