

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: P456504

Luminaire Tested: **GLAN-SA7D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36027 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 433  
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

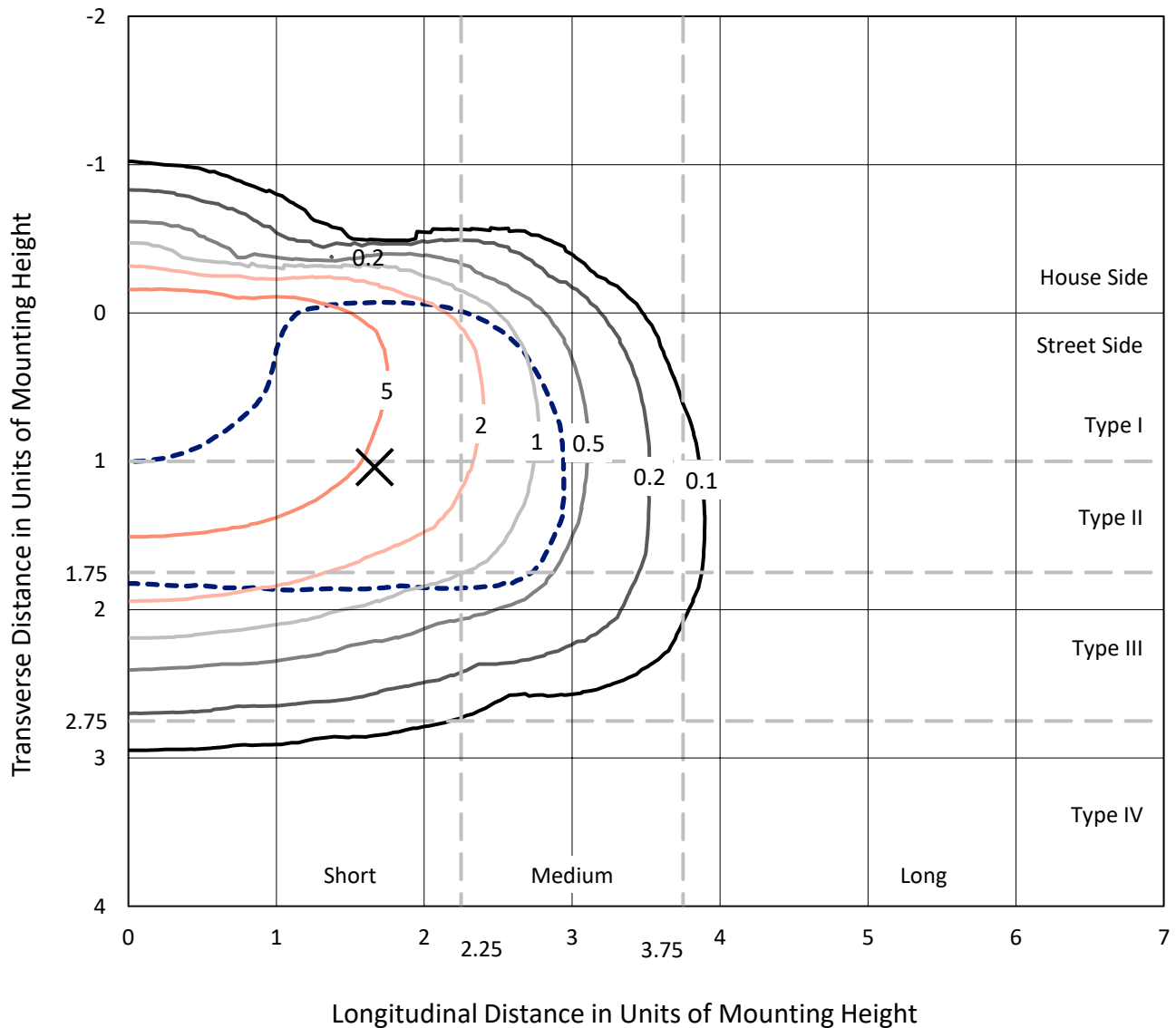


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## Iso-Footcandle Lines of Horizontal Illumination

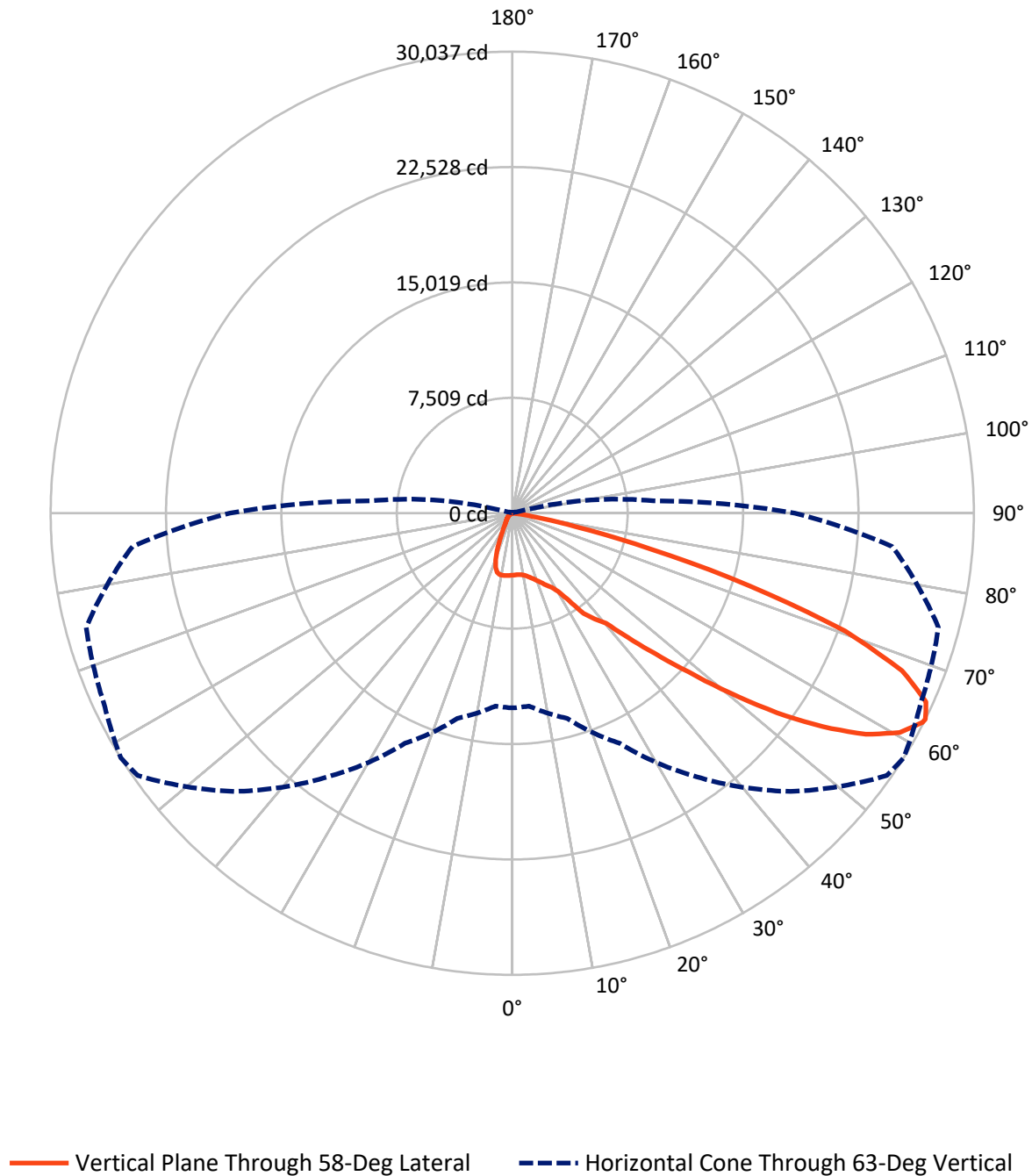
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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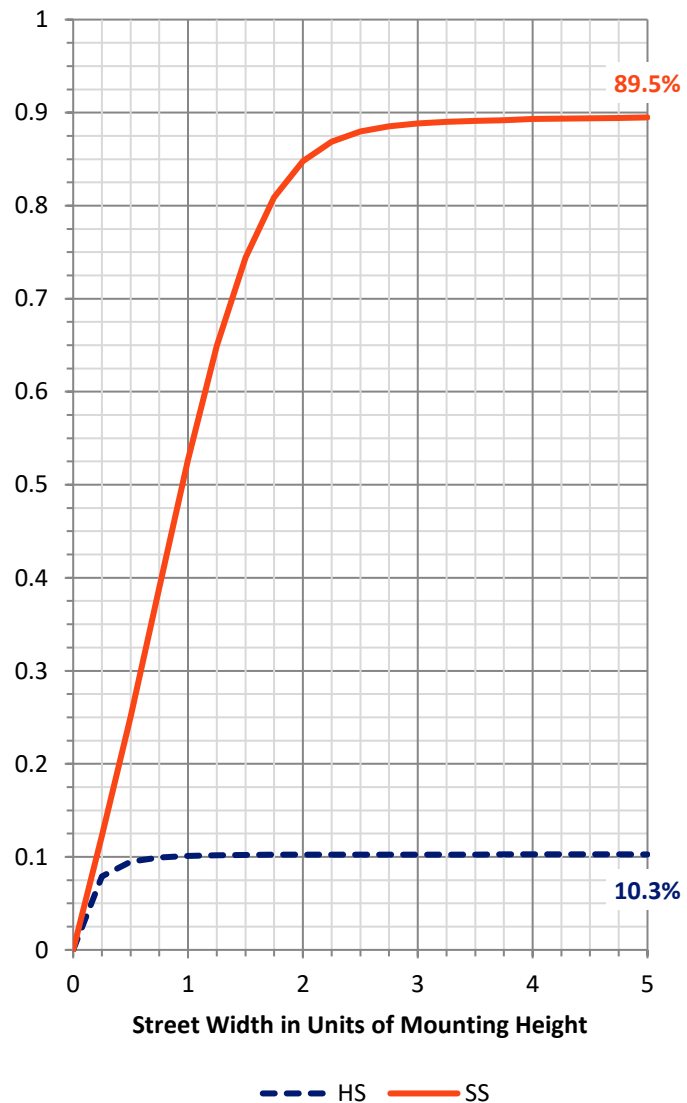
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3730.4   | 0.0    | 3730.4  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 32296.6  | 0.0    | 32296.6 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 36027.0  | 0.0    | 36027.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.6   | 1.0       |
| 10°-20°   | 1028.4  | 2.9       |
| 20°-30°   | 1784.8  | 5.0       |
| 30°-40°   | 3279.8  | 9.1       |
| 40°-50°   | 6174.1  | 17.1      |
| 50°-60°   | 10560.4 | 29.3      |
| 60°-70°   | 10111.6 | 28.1      |
| 70°-80°   | 2578.5  | 7.2       |
| 80°-90°   | 131.8   | 0.4       |
| 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°    | 36027.0 | 100.0     |
| 0°-180°   | 36027.0 | 100.0     |

**Coefficient of Utilization**



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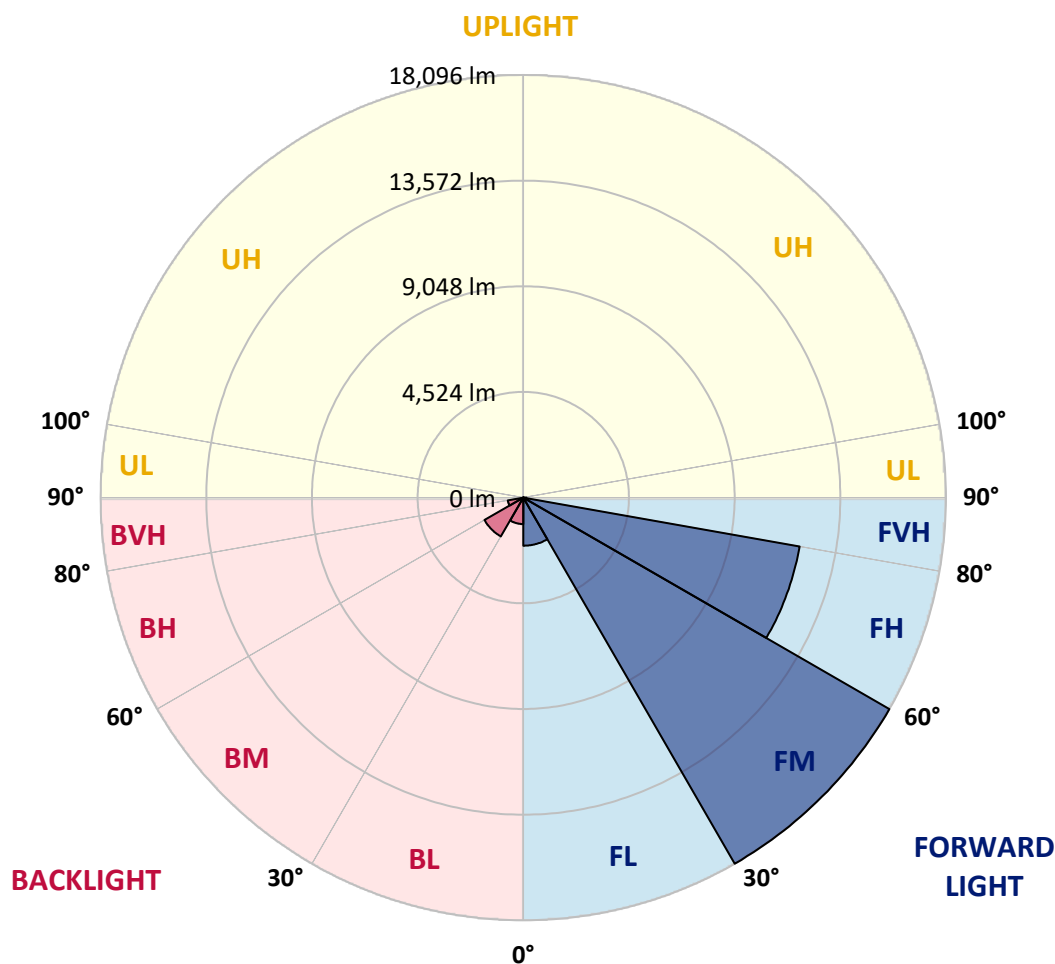
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2059.5  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 18095.6 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 12014.8 | 33.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 126.7   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1131.3  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1918.7  | 5.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 675.3   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.1     | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  | 4033.4  |
| 2.5°  | 3933.0  | 3946.6  | 3960.1  | 3965.6  | 3984.5  | 4003.5  | 4017.1  | 4014.4  | 4036.1  | 4046.9  | 4046.9  |
| 5°    | 3775.7  | 3775.7  | 3810.9  | 3843.5  | 3897.7  | 3952.0  | 4003.5  | 4014.4  | 4055.1  | 4093.0  | 4106.6  |
| 7.5°  | 3642.8  | 3650.9  | 3678.0  | 3737.7  | 3810.9  | 3905.9  | 4009.0  | 4033.4  | 4103.9  | 4188.0  | 4223.2  |
| 10°   | 3580.4  | 3585.8  | 3621.1  | 3683.5  | 3775.7  | 3905.9  | 4049.6  | 4095.7  | 4204.2  | 4337.2  | 4386.0  |
| 12.5° | 3566.8  | 3575.0  | 3610.2  | 3680.7  | 3786.5  | 3943.9  | 4139.1  | 4188.0  | 4345.3  | 4516.2  | 4589.4  |
| 15°   | 3591.2  | 3596.7  | 3631.9  | 3707.9  | 3824.5  | 4011.7  | 4258.5  | 4326.3  | 4513.5  | 4711.5  | 4806.4  |
| 17.5° | 3678.0  | 3672.6  | 3697.0  | 3759.4  | 3889.6  | 4095.7  | 4402.3  | 4483.6  | 4703.3  | 4974.6  | 5037.0  |
| 20°   | 4046.9  | 4011.7  | 3990.0  | 3935.7  | 3987.3  | 4215.1  | 4575.8  | 4695.2  | 4966.4  | 5243.1  | 5286.5  |
| 22.5° | 4841.7  | 4763.0  | 4608.4  | 4396.8  | 4234.1  | 4377.8  | 4784.7  | 4923.0  | 5272.9  | 5544.2  | 5544.2  |
| 25°   | 5853.4  | 5753.0  | 5598.4  | 5137.3  | 4738.6  | 4646.4  | 5020.7  | 5194.3  | 5606.6  | 5880.5  | 5791.0  |
| 27.5° | 7120.1  | 7041.4  | 6740.4  | 6203.3  | 5593.0  | 5115.6  | 5294.6  | 5454.7  | 5902.2  | 6233.1  | 6046.0  |
| 30°   | 8150.8  | 8112.8  | 7866.0  | 7385.9  | 6713.2  | 6016.1  | 5804.6  | 5910.4  | 6295.5  | 6678.0  | 6485.4  |
| 32.5° | 9021.5  | 9021.5  | 8769.2  | 8321.7  | 7692.4  | 7074.0  | 6669.8  | 6745.8  | 7114.7  | 7556.8  | 7198.8  |
| 35°   | 9979.0  | 9946.4  | 9743.0  | 9317.1  | 8611.9  | 8066.7  | 7901.3  | 8004.3  | 8338.0  | 8666.2  | 7784.6  |
| 37.5° | 10985.3 | 10974.4 | 10762.9 | 10350.6 | 9775.5  | 9089.3  | 8701.4  | 8728.6  | 8899.4  | 9100.2  | 8470.9  |
| 40°   | 12078.4 | 12094.7 | 11818.0 | 11563.0 | 11020.5 | 10318.0 | 9574.8  | 9403.9  | 9564.0  | 10130.9 | 9737.6  |
| 42.5° | 13369.5 | 13331.5 | 13212.2 | 12865.0 | 12428.3 | 12007.9 | 11115.5 | 11053.1 | 11194.1 | 11801.7 | 11375.9 |
| 45°   | 14869.5 | 14923.7 | 14717.6 | 14525.0 | 14232.0 | 13882.1 | 13136.2 | 13027.7 | 13182.3 | 14126.3 | 13521.4 |
| 47.5° | 16372.1 | 16320.6 | 16453.5 | 16418.3 | 16575.6 | 16315.2 | 15656.1 | 15433.6 | 15805.2 | 16700.3 | 15810.7 |
| 50°   | 17516.8 | 17573.7 | 17850.4 | 18254.6 | 18929.9 | 19076.4 | 18444.4 | 18368.5 | 18533.9 | 19109.0 | 17858.5 |
| 52.5° | 18260.0 | 18449.9 | 18883.8 | 19922.7 | 21140.6 | 22087.2 | 21607.1 | 21566.4 | 21498.6 | 21653.2 | 19816.9 |
| 55°   | 18745.5 | 18938.1 | 19505.0 | 21034.8 | 23131.5 | 24669.4 | 24693.8 | 24520.2 | 24072.7 | 23961.5 | 21647.8 |
| 57.5° | 18447.1 | 18485.1 | 19293.4 | 21338.6 | 24235.4 | 26511.2 | 27308.6 | 27135.0 | 26307.7 | 25887.3 | 23264.4 |
| 60°   | 16581.0 | 16659.7 | 17785.3 | 20188.5 | 23755.3 | 27113.3 | 29041.8 | 28963.2 | 28057.2 | 27582.6 | 24522.9 |
| 62.5° | 13274.6 | 13502.4 | 14660.6 | 17340.5 | 21523.0 | 26098.9 | 29744.3 | 29966.8 | 29261.5 | 28607.8 | 24919.0 |
| 63°   | 12667.0 | 12593.7 | 13817.0 | 16510.5 | 20931.7 | 25597.1 | 29755.2 | 30037.3 | 29315.8 | 28705.5 | 24810.5 |
| 65°   | 9376.8  | 9596.5  | 10391.3 | 13019.6 | 17419.1 | 23261.7 | 29085.2 | 29584.3 | 29115.1 | 28274.2 | 23608.9 |
| 67.5° | 5264.8  | 5253.9  | 6132.8  | 8519.7  | 12192.3 | 18246.4 | 26299.6 | 27354.7 | 27257.1 | 25371.9 | 19570.1 |
| 70°   | 2576.8  | 2617.5  | 2978.2  | 4415.8  | 7071.3  | 12588.3 | 21853.9 | 22993.1 | 23028.4 | 19928.1 | 13532.2 |
| 72.5° | 1166.3  | 1185.3  | 1443.0  | 2150.9  | 3634.6  | 6702.4  | 15059.3 | 16147.0 | 15946.3 | 12699.5 | 7472.7  |
| 75°   | 615.7   | 656.4   | 794.7   | 1082.3  | 1752.2  | 2764.0  | 8191.5  | 9243.9  | 8823.5  | 5801.9  | 2750.4  |
| 77.5° | 455.7   | 469.2   | 539.8   | 689.0   | 938.5   | 1076.8  | 3534.3  | 4204.2  | 3938.4  | 2099.4  | 911.4   |
| 80°   | 333.6   | 344.5   | 401.4   | 488.2   | 591.3   | 547.9   | 1331.8  | 1527.1  | 1369.8  | 713.4   | 279.4   |
| 82.5° | 203.4   | 206.1   | 292.9   | 363.5   | 371.6   | 306.5   | 439.4   | 472.0   | 493.7   | 401.4   | 151.9   |
| 85°   | 73.2    | 92.2    | 198.0   | 263.1   | 219.7   | 154.6   | 184.4   | 203.4   | 222.4   | 255.0   | 89.5    |
| 87.5° | 8.1     | 10.8    | 94.9    | 127.5   | 62.4    | 57.0    | 67.8    | 75.9    | 81.4    | 94.9    | 43.4    |
| 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°    | 4033.4  | 4033.4  | 4033.4 | 4033.4 | 4033.4 | 4033.4 | 4033.4 | 4033.4 | 4033.4 | 4033.4 | 4033.4 |
| 2.5°  | 4057.8  | 4068.6  | 4060.5 | 4046.9 | 4044.2 | 4036.1 | 4019.8 | 4019.8 | 4019.8 | 4025.2 | 4019.8 |
| 5°    | 4117.4  | 4125.6  | 4106.6 | 4079.5 | 4049.6 | 4011.7 | 3971.0 | 3946.6 | 3943.9 | 3938.4 | 3924.9 |
| 7.5°  | 4231.4  | 4242.2  | 4198.8 | 4133.7 | 4052.3 | 3960.1 | 3873.3 | 3792.0 | 3754.0 | 3724.1 | 3724.1 |
| 10°   | 4396.8  | 4407.7  | 4320.9 | 4204.2 | 4041.5 | 3854.3 | 3648.2 | 3461.0 | 3314.6 | 3246.8 | 3230.5 |
| 12.5° | 4594.8  | 4600.3  | 4456.5 | 4253.1 | 3984.5 | 3623.8 | 3184.4 | 2774.8 | 2490.0 | 2359.8 | 2346.2 |
| 15°   | 4811.8  | 4773.9  | 4584.0 | 4272.1 | 3821.8 | 3149.1 | 2389.6 | 1887.8 | 1592.2 | 1505.4 | 1537.9 |
| 17.5° | 5031.5  | 4961.0  | 4681.6 | 4242.2 | 3455.6 | 2389.6 | 1605.8 | 1288.4 | 1196.2 | 1171.8 | 1171.8 |
| 20°   | 5237.7  | 5140.0  | 4752.2 | 4112.0 | 2820.9 | 1646.4 | 1190.8 | 1114.8 | 1098.5 | 1082.3 | 1085.0 |
| 22.5° | 5443.8  | 5294.6  | 4814.5 | 3821.8 | 2102.1 | 1177.2 | 1066.0 | 1041.6 | 1019.9 | 998.2  | 995.5  |
| 25°   | 5644.5  | 5438.4  | 4838.9 | 3284.7 | 1432.2 | 1011.7 | 973.8  | 941.2  | 897.8  | 873.4  | 868.0  |
| 27.5° | 5853.4  | 5612.0  | 4822.7 | 2606.6 | 1044.3 | 905.9  | 868.0  | 821.9  | 770.3  | 726.9  | 726.9  |
| 30°   | 6254.8  | 5942.9  | 4765.7 | 1874.3 | 878.8  | 797.5  | 748.6  | 675.4  | 618.4  | 575.0  | 572.3  |
| 32.5° | 6802.7  | 6374.2  | 4570.4 | 1318.2 | 781.2  | 702.5  | 629.3  | 547.9  | 488.2  | 455.7  | 455.7  |
| 35°   | 7291.0  | 6808.2  | 4204.2 | 971.0  | 702.5  | 610.3  | 520.8  | 442.1  | 396.0  | 374.3  | 366.2  |
| 37.5° | 8034.2  | 7442.9  | 3699.7 | 789.3  | 626.6  | 528.9  | 436.7  | 363.5  | 325.5  | 309.2  | 309.2  |
| 40°   | 9149.0  | 8218.6  | 3081.3 | 691.7  | 553.3  | 450.3  | 363.5  | 306.5  | 276.7  | 257.7  | 257.7  |
| 42.5° | 10532.3 | 9168.0  | 2454.7 | 621.1  | 485.5  | 387.9  | 303.8  | 260.4  | 233.3  | 219.7  | 217.0  |
| 45°   | 12273.7 | 10168.8 | 1890.6 | 556.0  | 431.3  | 330.9  | 257.7  | 219.7  | 192.6  | 184.4  | 187.2  |
| 47.5° | 14091.0 | 11050.4 | 1464.7 | 499.1  | 374.3  | 279.4  | 219.7  | 189.9  | 170.9  | 160.0  | 160.0  |
| 50°   | 15642.5 | 11658.0 | 1112.1 | 434.0  | 330.9  | 236.0  | 192.6  | 170.9  | 154.6  | 149.2  | 146.5  |
| 52.5° | 16939.0 | 11834.3 | 851.7  | 377.0  | 290.2  | 203.4  | 170.9  | 154.6  | 141.0  | 132.9  | 132.9  |
| 55°   | 18043.0 | 11679.7 | 667.3  | 317.4  | 244.1  | 176.3  | 151.9  | 138.3  | 122.1  | 113.9  | 111.2  |
| 57.5° | 18688.5 | 11183.3 | 509.9  | 263.1  | 198.0  | 146.5  | 132.9  | 116.6  | 97.6   | 84.1   | 84.1   |
| 60°   | 19014.0 | 10461.8 | 390.6  | 217.0  | 151.9  | 116.6  | 108.5  | 86.8   | 67.8   | 57.0   | 54.2   |
| 62.5° | 18623.4 | 9504.3  | 295.7  | 170.9  | 113.9  | 86.8   | 73.2   | 62.4   | 43.4   | 32.5   | 32.5   |
| 63°   | 18382.0 | 9227.6  | 284.8  | 162.7  | 105.8  | 81.4   | 67.8   | 57.0   | 38.0   | 29.8   | 27.1   |
| 65°   | 16757.3 | 8020.6  | 233.3  | 130.2  | 84.1   | 57.0   | 46.1   | 40.7   | 27.1   | 13.6   | 10.8   |
| 67.5° | 13307.1 | 6135.5  | 184.4  | 97.6   | 59.7   | 40.7   | 27.1   | 24.4   | 8.1    | 0.0    | 0.0    |
| 70°   | 8997.1  | 3962.8  | 143.8  | 70.5   | 40.7   | 24.4   | 13.6   | 10.8   | 2.7    | 0.0    | 0.0    |
| 72.5° | 4692.5  | 2031.6  | 111.2  | 51.5   | 24.4   | 16.3   | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    |
| 75°   | 1660.0  | 691.7   | 81.4   | 32.5   | 16.3   | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 501.8   | 257.7   | 51.5   | 24.4   | 10.8   | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 176.3   | 94.9    | 29.8   | 16.3   | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 86.8    | 46.1    | 19.0   | 13.6   | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 48.8    | 29.8    | 16.3   | 13.6   | 8.1    | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 35.3    | 21.7    | 16.3   | 13.6   | 10.8   | 5.4    | 2.7    | 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    | 0.0    |

(END OF REPORT)