

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: McGRAW-EDISON

Report Number: P194265

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7060-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-AFL-7060-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 800mA 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: 27846 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 295  
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: 25 FT



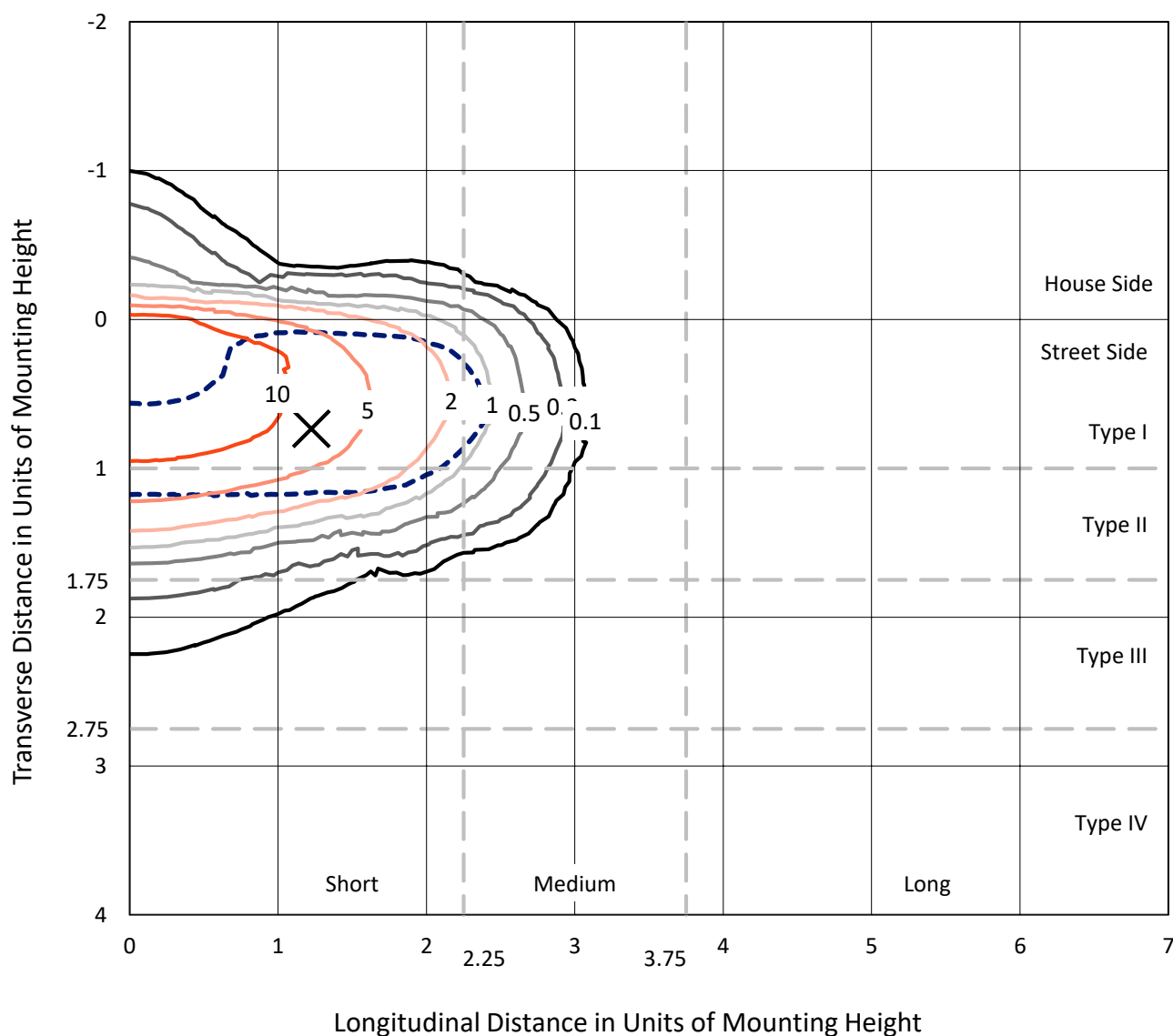
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

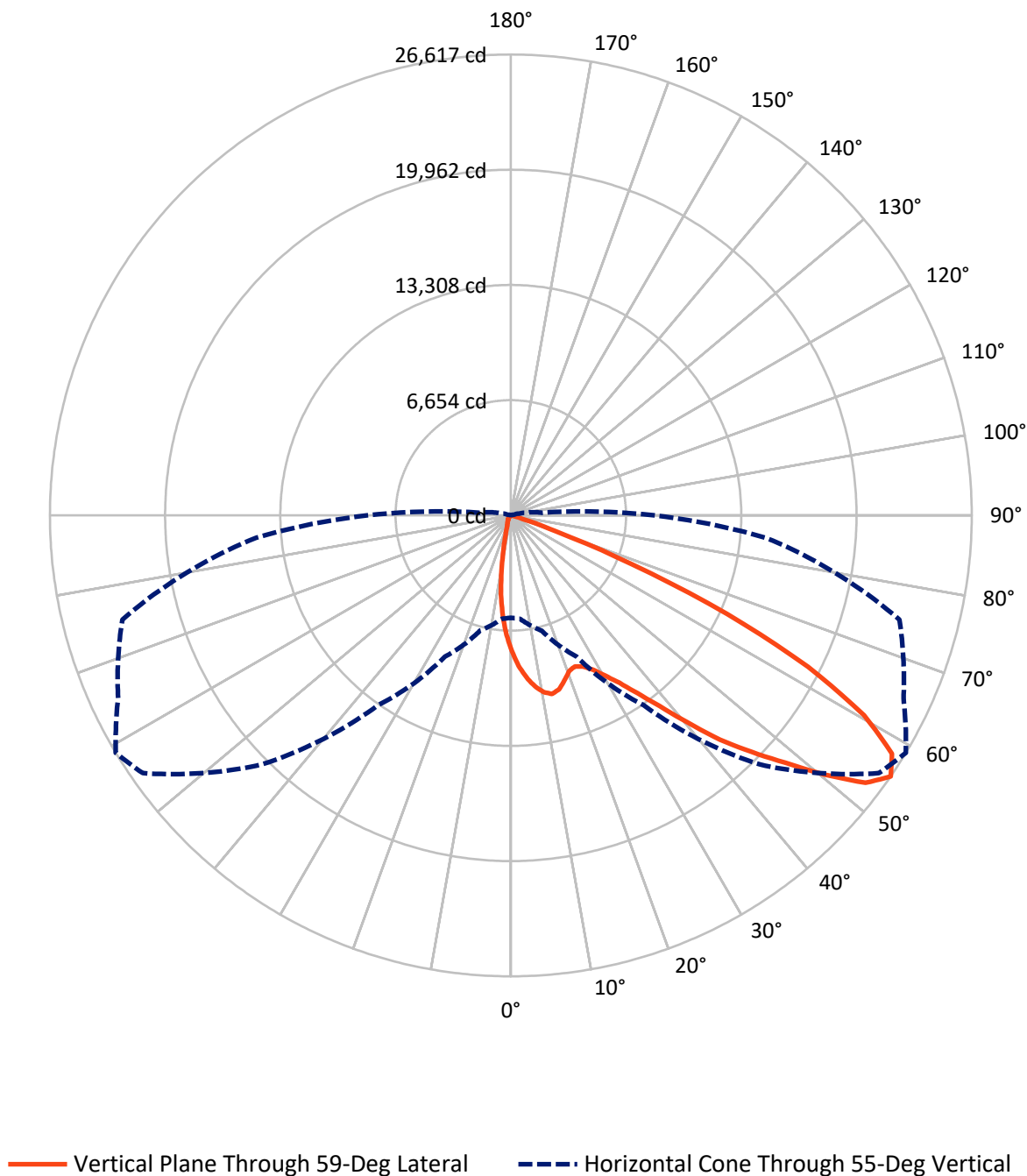


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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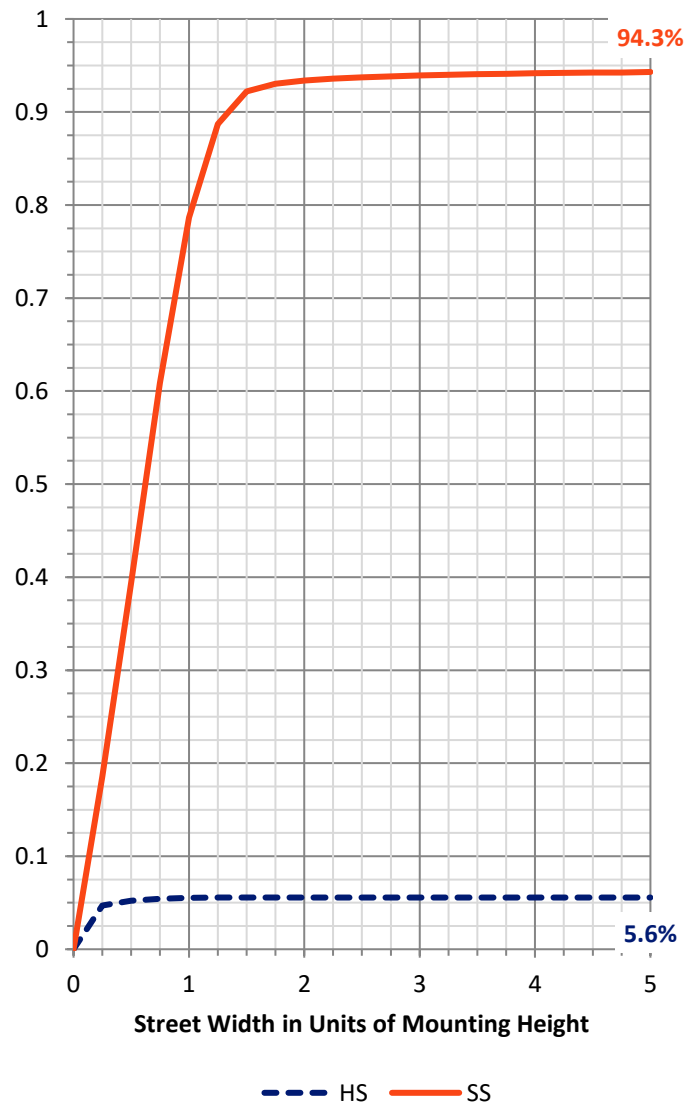
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1555.4   | 0.0    | 1555.4  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 26290.6  | 0.0    | 26290.6 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 27846.0  | 0.0    | 27846.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 656.6   | 2.4       |
| 10°-20°   | 1572.0  | 5.6       |
| 20°-30°   | 2674.9  | 9.6       |
| 30°-40°   | 4600.3  | 16.5      |
| 40°-50°   | 7102.3  | 25.5      |
| 50°-60°   | 7140.1  | 25.6      |
| 60°-70°   | 3661.5  | 13.1      |
| 70°-80°   | 396.8   | 1.4       |
| 80°-90°   | 41.5    | 0.1       |
| 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°    | 27846.0 | 100.0     |
| 0°-180°   | 27846.0 | 100.0     |

**Coefficient of Utilization**



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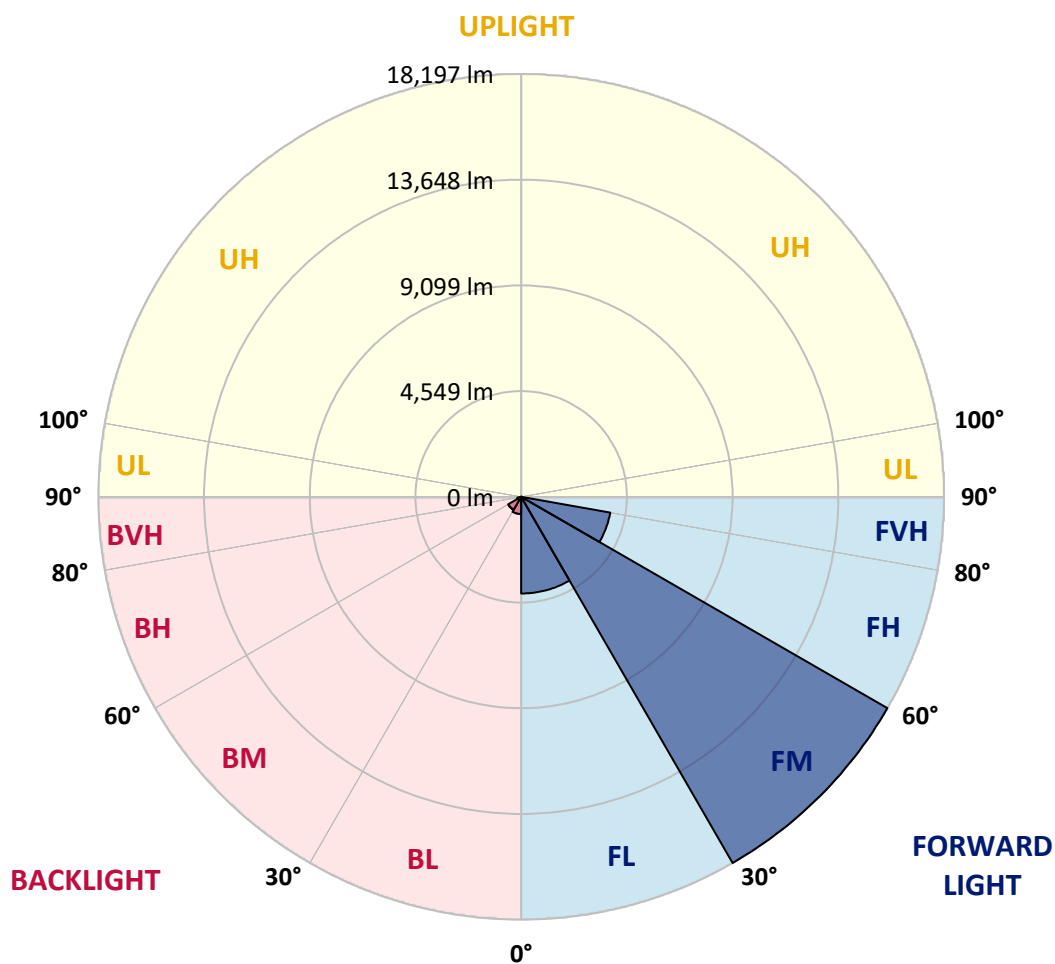
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4161.1  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 18197.2 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 3891.7  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 40.6    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 742.4   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 645.5   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 166.6   | 0.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.9     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  | 7838.5  |
| 2.5°  | 9274.8  | 9176.2  | 9146.6  | 9126.9  | 9036.5  | 8923.1  | 8768.7  | 8696.4  | 8548.5  | 8310.2  | 8017.7  |
| 5°    | 10124.4 | 10106.3 | 10040.6 | 10004.4 | 9907.5  | 9746.4  | 9499.9  | 9381.6  | 9146.6  | 8745.7  | 8221.4  |
| 7.5°  | 9753.0  | 9866.4  | 9956.8  | 10107.9 | 10298.6 | 10292.0 | 10084.9 | 9961.7  | 9698.8  | 9169.6  | 8448.2  |
| 10°   | 8318.4  | 8410.4  | 8558.3  | 8901.8  | 9601.8  | 10219.7 | 10462.9 | 10374.2 | 10163.8 | 9559.1  | 8666.8  |
| 12.5° | 8037.4  | 8027.5  | 8053.8  | 8154.1  | 8520.5  | 9401.3  | 10398.8 | 10577.9 | 10535.2 | 9915.7  | 8873.8  |
| 15°   | 8186.9  | 8175.4  | 8172.1  | 8206.6  | 8295.4  | 8666.8  | 9917.3  | 10431.7 | 10762.0 | 10246.0 | 9049.7  |
| 17.5° | 8606.0  | 8556.7  | 8530.4  | 8502.4  | 8476.1  | 8568.2  | 9338.9  | 10022.5 | 10796.5 | 10535.2 | 9195.9  |
| 20°   | 9324.1  | 9241.9  | 9145.0  | 8987.2  | 8839.3  | 8793.3  | 9095.7  | 9601.8  | 10673.2 | 10755.4 | 9291.2  |
| 22.5° | 10226.3 | 10121.1 | 9953.5  | 9665.9  | 9365.2  | 9191.0  | 9215.6  | 9468.7  | 10489.2 | 10995.3 | 9335.6  |
| 25°   | 11240.2 | 11105.4 | 10881.9 | 10482.6 | 10040.6 | 9731.6  | 9570.6  | 9659.3  | 10405.4 | 11276.3 | 9386.5  |
| 27.5° | 12326.4 | 12176.9 | 11884.4 | 11340.4 | 10839.2 | 10421.8 | 10093.2 | 10081.7 | 10548.4 | 11644.4 | 9468.7  |
| 30°   | 13402.8 | 13379.8 | 12998.5 | 12423.4 | 11759.5 | 11251.7 | 10778.4 | 10717.6 | 10947.7 | 12153.9 | 9631.4  |
| 32.5° | 14839.0 | 14666.5 | 14199.8 | 13608.2 | 12842.4 | 12232.7 | 11672.4 | 11531.0 | 11560.6 | 12747.1 | 9882.8  |
| 35°   | 16649.9 | 16461.0 | 15803.6 | 14986.9 | 14130.8 | 13411.0 | 12791.5 | 12599.2 | 12526.9 | 13718.3 | 10306.8 |
| 37.5° | 17820.0 | 17816.7 | 17404.2 | 16572.7 | 15654.1 | 14860.4 | 14186.6 | 13961.5 | 13815.2 | 14891.6 | 10964.1 |
| 40°   | 17851.2 | 17928.4 | 17982.6 | 17974.4 | 17320.4 | 16589.1 | 15991.0 | 15713.2 | 15373.1 | 16459.3 | 11813.7 |
| 42.5° | 16893.1 | 17092.0 | 17570.2 | 18382.0 | 18769.8 | 18478.9 | 17974.4 | 17701.6 | 17195.5 | 18137.1 | 12849.0 |
| 45°   | 15598.2 | 15736.3 | 16572.7 | 18068.1 | 19555.3 | 20352.3 | 19967.8 | 19479.7 | 18812.5 | 19887.2 | 13777.4 |
| 47.5° | 15018.1 | 15042.8 | 15583.4 | 17225.1 | 19614.4 | 21887.1 | 22120.5 | 21326.8 | 20281.6 | 21297.2 | 14503.8 |
| 50°   | 13284.4 | 13328.8 | 14074.9 | 15764.2 | 18921.0 | 22611.8 | 24283.1 | 23530.4 | 21883.8 | 22383.4 | 14768.4 |
| 52.5° | 10012.6 | 10075.1 | 11021.6 | 13363.3 | 17014.7 | 22302.9 | 25831.1 | 25648.7 | 23638.9 | 22914.2 | 14783.1 |
| 55°   | 5907.7  | 5989.8  | 6893.7  | 8995.4  | 13383.0 | 20337.5 | 25946.1 | 26616.6 | 25024.2 | 23228.1 | 14760.1 |
| 57.5° | 2759.1  | 2816.6  | 3334.3  | 4634.1  | 8323.3  | 16073.1 | 24214.0 | 25952.7 | 25788.3 | 23394.0 | 14922.8 |
| 60°   | 1465.8  | 1482.3  | 1607.1  | 2006.5  | 3761.5  | 10191.8 | 20833.8 | 23435.1 | 25091.6 | 23624.1 | 15121.7 |
| 62.5° | 1120.7  | 1125.7  | 1119.1  | 1166.7  | 1580.9  | 4524.0  | 15747.8 | 19266.1 | 22286.5 | 23451.6 | 14901.5 |
| 65°   | 971.2   | 979.4   | 933.4   | 921.9   | 1013.9  | 1613.7  | 9355.3  | 13733.1 | 17512.7 | 21123.0 | 13401.1 |
| 67.5° | 870.9   | 874.2   | 818.4   | 770.7   | 787.1   | 872.6   | 3690.9  | 7518.1  | 11591.8 | 15483.2 | 9713.6  |
| 70°   | 801.9   | 798.6   | 737.8   | 662.3   | 640.9   | 596.5   | 1173.3  | 2755.8  | 5539.6  | 7851.7  | 4517.4  |
| 72.5° | 709.9   | 711.5   | 682.0   | 583.4   | 532.4   | 417.4   | 543.9   | 803.6   | 1653.2  | 2139.6  | 1058.3  |
| 75°   | 629.4   | 621.2   | 585.0   | 522.6   | 438.8   | 274.4   | 269.5   | 358.2   | 509.4   | 506.1   | 228.4   |
| 77.5° | 455.2   | 447.0   | 458.5   | 428.9   | 336.9   | 177.5   | 134.8   | 172.5   | 207.1   | 200.5   | 64.1    |
| 80°   | 333.6   | 328.7   | 295.8   | 356.6   | 297.4   | 121.6   | 83.8    | 92.0    | 106.8   | 90.4    | 19.7    |
| 82.5° | 228.4   | 226.8   | 208.7   | 197.2   | 169.3   | 73.9    | 52.6    | 57.5    | 69.0    | 50.9    | 9.9     |
| 85°   | 36.2    | 41.1    | 151.2   | 120.0   | 100.2   | 32.9    | 36.2    | 39.4    | 46.0    | 27.9    | 3.3     |
| 87.5° | 0.0     | 0.0     | 70.7    | 62.4    | 19.7    | 13.1    | 21.4    | 23.0    | 23.0    | 14.8    | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 | 7838.5 |
| 2.5°  | 7868.1 | 7703.8 | 7399.8 | 7085.9 | 6795.1 | 6448.3 | 6210.0 | 6030.9 | 5823.9 | 5768.0 | 5889.6 |
| 5°    | 7922.4 | 7611.8 | 6957.7 | 6246.2 | 5577.4 | 4836.2 | 4269.3 | 3820.7 | 3414.8 | 3276.7 | 3401.6 |
| 7.5°  | 8007.8 | 7546.0 | 6479.5 | 5307.9 | 4144.4 | 2987.5 | 2195.5 | 1674.5 | 1342.6 | 1244.0 | 1296.6 |
| 10°   | 8093.3 | 7450.7 | 5925.7 | 4197.0 | 2606.3 | 1454.3 | 946.5  | 755.9  | 685.3  | 670.5  | 678.7  |
| 12.5° | 8163.9 | 7322.6 | 5250.3 | 2984.2 | 1393.5 | 778.9  | 619.5  | 588.3  | 578.4  | 578.4  | 581.7  |
| 15°   | 8206.6 | 7128.6 | 4450.1 | 1898.0 | 801.9  | 588.3  | 540.6  | 530.8  | 530.8  | 532.4  | 535.7  |
| 17.5° | 8201.7 | 6882.1 | 3574.2 | 1148.7 | 599.8  | 520.9  | 493.0  | 484.8  | 483.1  | 486.4  | 488.1  |
| 20°   | 8140.9 | 6560.1 | 2695.0 | 757.6  | 522.6  | 474.9  | 447.0  | 432.2  | 430.5  | 433.8  | 437.1  |
| 22.5° | 8025.9 | 6162.4 | 1927.6 | 583.4  | 471.6  | 430.5  | 396.0  | 382.9  | 382.9  | 386.2  | 389.5  |
| 25°   | 7886.2 | 5676.0 | 1317.9 | 494.6  | 425.6  | 382.9  | 350.0  | 338.5  | 341.8  | 350.0  | 351.7  |
| 27.5° | 7712.0 | 5128.7 | 895.6  | 424.0  | 369.7  | 335.2  | 310.6  | 302.4  | 310.6  | 322.1  | 325.4  |
| 30°   | 7562.5 | 4558.5 | 639.2  | 366.5  | 313.9  | 289.2  | 274.4  | 274.4  | 285.9  | 307.3  | 312.2  |
| 32.5° | 7447.4 | 4006.4 | 493.0  | 323.7  | 272.8  | 251.4  | 243.2  | 251.4  | 269.5  | 290.9  | 295.8  |
| 35°   | 7432.7 | 3551.2 | 417.4  | 289.2  | 243.2  | 221.8  | 218.6  | 233.3  | 251.4  | 267.9  | 271.1  |
| 37.5° | 7546.0 | 3130.5 | 376.3  | 261.3  | 216.9  | 197.2  | 193.9  | 212.0  | 230.1  | 249.8  | 254.7  |
| 40°   | 7761.3 | 2800.2 | 346.7  | 235.0  | 195.6  | 174.2  | 167.6  | 180.8  | 205.4  | 231.7  | 238.3  |
| 42.5° | 8040.7 | 2527.4 | 313.9  | 208.7  | 174.2  | 144.6  | 136.4  | 151.2  | 177.5  | 205.4  | 213.6  |
| 45°   | 8306.9 | 2292.4 | 277.7  | 179.1  | 146.3  | 111.7  | 108.5  | 128.2  | 141.3  | 169.3  | 175.8  |
| 47.5° | 8453.1 | 2085.3 | 246.5  | 146.3  | 113.4  | 90.4   | 90.4   | 95.3   | 108.5  | 141.3  | 147.9  |
| 50°   | 8403.8 | 1919.4 | 213.6  | 108.5  | 78.9   | 69.0   | 69.0   | 67.4   | 87.1   | 113.4  | 118.3  |
| 52.5° | 8305.2 | 1824.1 | 184.0  | 83.8   | 54.2   | 49.3   | 44.4   | 49.3   | 60.8   | 72.3   | 73.9   |
| 55°   | 8290.5 | 1807.6 | 154.5  | 67.4   | 37.8   | 32.9   | 24.6   | 24.6   | 24.6   | 23.0   | 19.7   |
| 57.5° | 8405.5 | 1833.9 | 129.8  | 54.2   | 27.9   | 21.4   | 13.1   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 8523.8 | 1861.9 | 111.7  | 37.8   | 19.7   | 11.5   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 8326.6 | 1799.4 | 93.7   | 23.0   | 14.8   | 4.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 7314.3 | 1531.6 | 73.9   | 16.4   | 9.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 5202.7 | 1025.4 | 49.3   | 9.9    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2374.6 | 428.9  | 31.2   | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 507.8  | 133.1  | 21.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 103.5  | 97.0   | 8.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 32.9   | 152.8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 19.7   | 110.1  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.3    | 16.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)