

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: P192836

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL2-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45199.4 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 445  
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



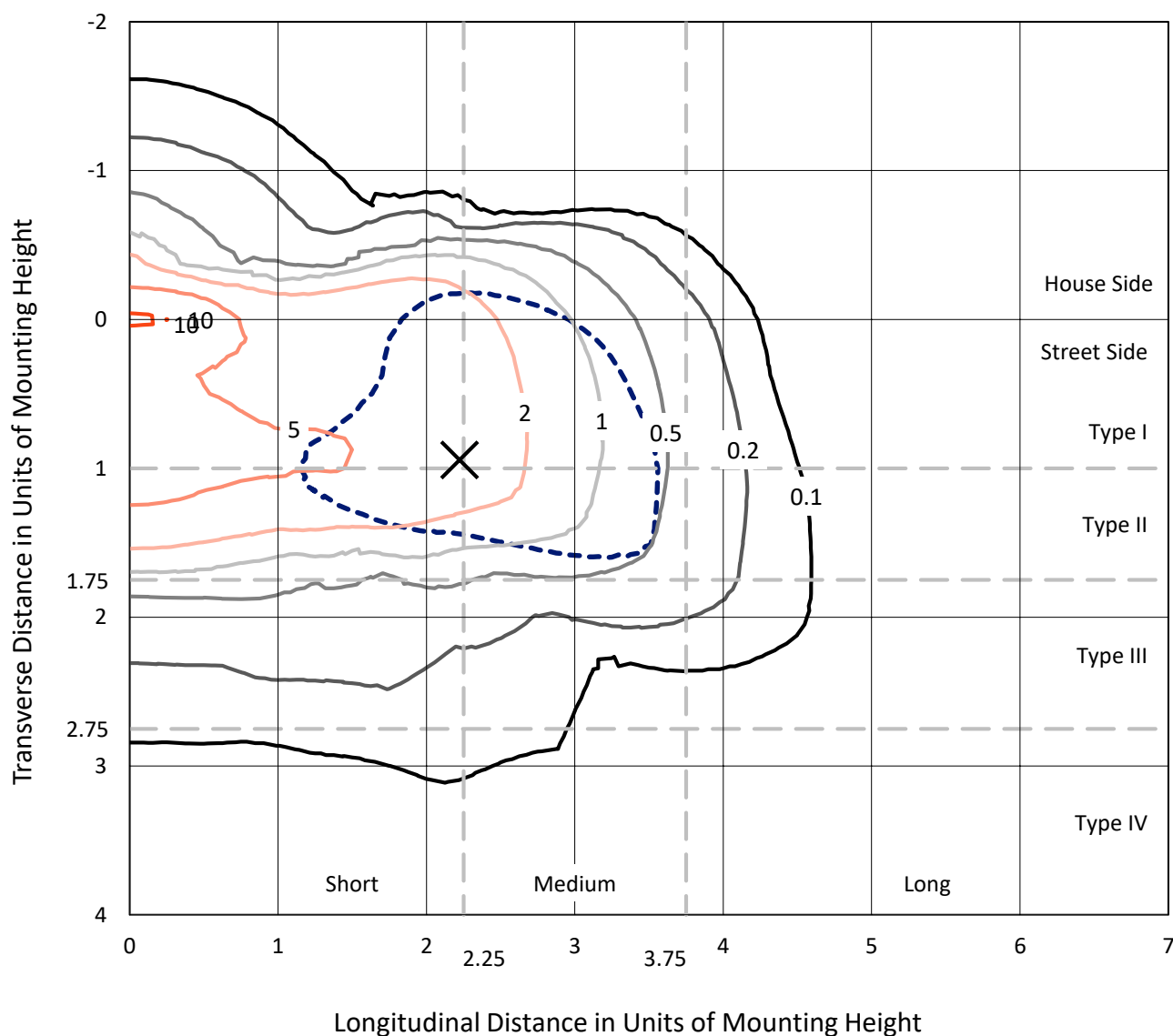
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

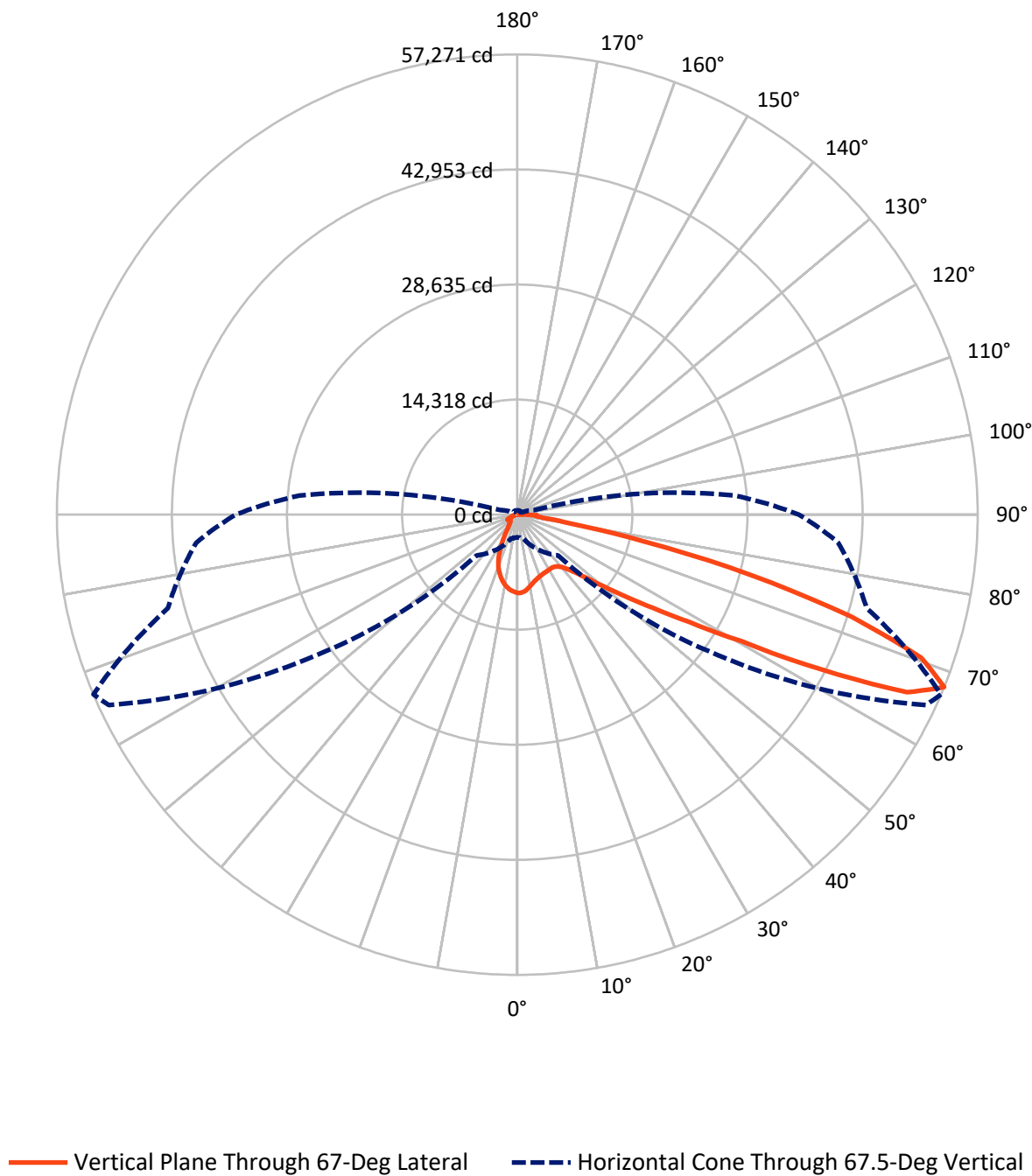


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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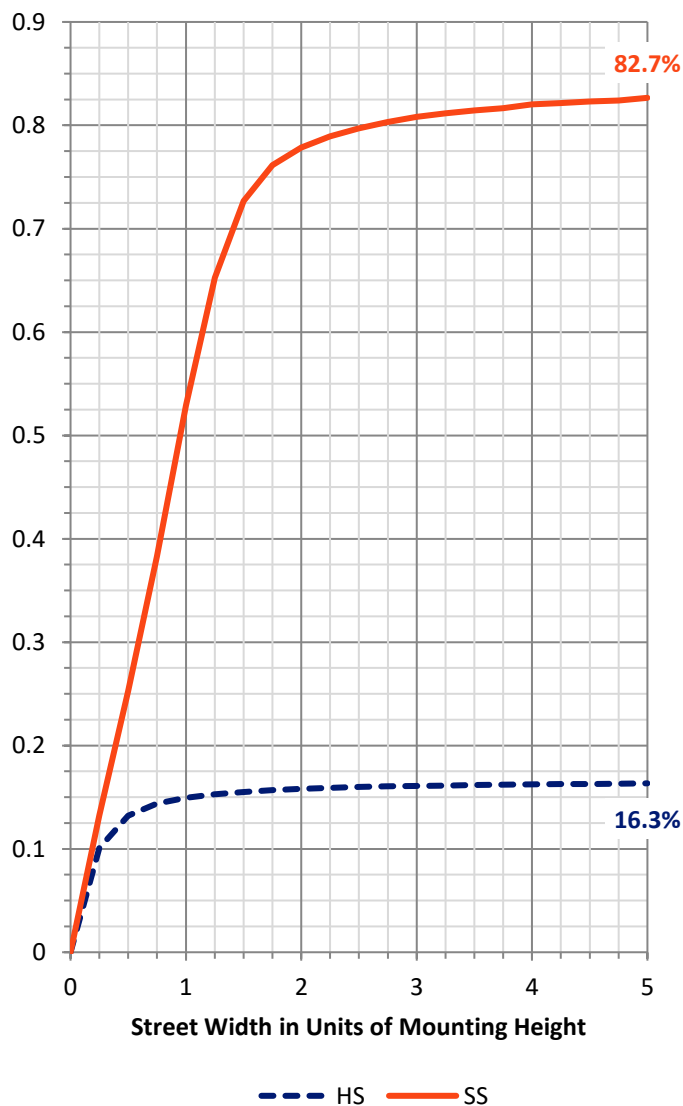
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7489.0   | 0.0    | 7489.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 37710.4  | 0.0    | 37710.4 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 45199.4  | 0.0    | 45199.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 831.8   | 1.8       |
| 10°-20°   | 1924.6  | 4.3       |
| 20°-30°   | 2608.8  | 5.8       |
| 30°-40°   | 3708.7  | 8.2       |
| 40°-50°   | 6204.8  | 13.7      |
| 50°-60°   | 9815.9  | 21.7      |
| 60°-70°   | 12504.5 | 27.7      |
| 70°-80°   | 6549.8  | 14.5      |
| 80°-90°   | 1050.5  | 2.3       |
| 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°    | 45199.4 | 100.0     |
| 0°-180°   | 45199.4 | 100.0     |

**Coefficient of Utilization**



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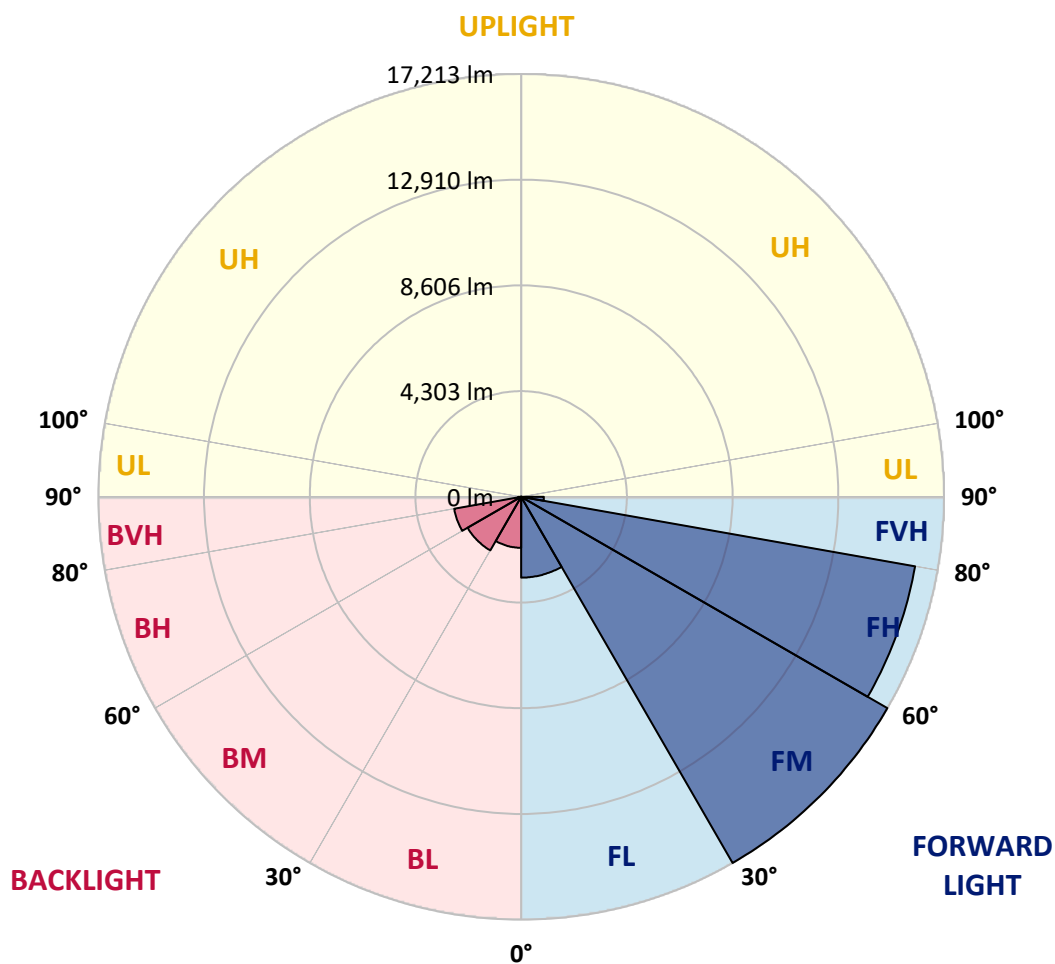
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3289.4  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 17212.9 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 16284.4 | 36.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 923.7   | 2.0       |                         |      | G5      |
| BL   | (0°-30°)    | 2075.8  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2516.5  | 5.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2770.0  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 126.8   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  | 9749.4  |
| 2.5°  | 9348.2  | 9363.8  | 9412.8  | 9444.1  | 9584.4  | 9644.7  | 9687.0  | 9729.3  | 9736.1  | 9756.1  | 9736.1  |
| 5°    | 8367.5  | 8401.0  | 8492.2  | 8594.8  | 8866.7  | 9080.7  | 9305.8  | 9539.9  | 9582.2  | 9733.8  | 9776.2  |
| 7.5°  | 7607.4  | 7598.4  | 7674.3  | 7796.8  | 8075.5  | 8371.9  | 8766.4  | 9232.3  | 9323.6  | 9664.7  | 9829.6  |
| 10°   | 7052.3  | 7045.7  | 7125.9  | 7252.9  | 7518.2  | 7799.0  | 8244.9  | 8882.3  | 9011.6  | 9555.5  | 9881.0  |
| 12.5° | 6642.3  | 6644.5  | 6724.7  | 6865.2  | 7134.8  | 7417.9  | 7870.4  | 8543.5  | 8708.5  | 9428.4  | 9934.4  |
| 15°   | 6370.4  | 6388.2  | 6452.9  | 6602.1  | 6865.2  | 7148.3  | 7591.8  | 8289.5  | 8474.4  | 9328.1  | 9994.6  |
| 17.5° | 6278.9  | 6308.0  | 6330.3  | 6439.4  | 6664.6  | 6947.6  | 7382.3  | 8102.2  | 8298.3  | 9259.0  | 10048.1 |
| 20°   | 6363.7  | 6397.1  | 6354.7  | 6392.6  | 6535.3  | 6784.9  | 7217.3  | 7955.0  | 8155.7  | 9181.0  | 10054.8 |
| 22.5° | 6727.0  | 6758.1  | 6633.3  | 6524.1  | 6515.2  | 6666.8  | 7081.3  | 7839.3  | 8046.5  | 9123.0  | 10057.0 |
| 25°   | 7366.7  | 7386.7  | 7177.2  | 6923.1  | 6675.7  | 6624.4  | 6985.5  | 7758.9  | 7979.6  | 9071.8  | 10014.7 |
| 27.5° | 8151.3  | 8166.9  | 7926.1  | 7551.7  | 7054.7  | 6724.7  | 6952.0  | 7712.2  | 7941.7  | 9027.2  | 9943.3  |
| 30°   | 9105.2  | 9178.8  | 8855.6  | 8383.0  | 7658.6  | 7021.2  | 7019.0  | 7687.6  | 7899.3  | 8951.5  | 9803.0  |
| 32.5° | 10081.6 | 10112.7 | 9889.8  | 9410.6  | 8472.2  | 7542.7  | 7206.2  | 7705.5  | 7888.2  | 8860.1  | 9624.5  |
| 35°   | 11071.1 | 11111.3 | 10966.5 | 10580.7 | 9584.4  | 8307.3  | 7571.7  | 7810.2  | 7957.4  | 8828.9  | 9499.8  |
| 37.5° | 12352.9 | 12406.3 | 12205.7 | 11759.9 | 10937.4 | 9343.8  | 8180.2  | 8073.2  | 8169.1  | 8918.1  | 9461.9  |
| 40°   | 14378.9 | 14354.4 | 13768.2 | 13104.0 | 12417.5 | 10669.9 | 9049.5  | 8519.1  | 8574.7  | 9205.5  | 9577.7  |
| 42.5° | 16737.2 | 16677.0 | 15667.2 | 14624.2 | 14044.6 | 12274.8 | 10199.7 | 9292.5  | 9281.3  | 9771.7  | 9985.6  |
| 45°   | 18618.5 | 18569.3 | 17659.9 | 16373.8 | 15910.3 | 14102.5 | 11686.4 | 10444.8 | 10362.3 | 10669.9 | 10739.1 |
| 47.5° | 19637.0 | 19639.3 | 19115.5 | 18065.6 | 18054.4 | 16425.2 | 13596.6 | 12112.1 | 11969.5 | 12114.3 | 12040.8 |
| 50°   | 19280.4 | 19327.2 | 19271.4 | 18937.2 | 20011.5 | 19469.9 | 16090.7 | 14436.9 | 14149.4 | 14291.9 | 14008.9 |
| 52.5° | 17555.2 | 17615.4 | 17945.3 | 18457.9 | 20834.0 | 23149.9 | 19755.1 | 17325.6 | 16991.2 | 16940.0 | 16625.8 |
| 55°   | 14497.1 | 14570.6 | 15243.8 | 16636.9 | 20149.7 | 25621.8 | 25537.0 | 21007.9 | 20475.0 | 19991.3 | 19857.7 |
| 57.5° | 9992.5  | 10115.0 | 11198.2 | 13266.7 | 17936.3 | 26368.4 | 32422.2 | 26256.9 | 25173.8 | 23484.1 | 23515.5 |
| 60°   | 5632.6  | 5775.2  | 7052.3  | 8931.4  | 13469.5 | 25557.1 | 37660.2 | 34207.7 | 31920.7 | 27574.3 | 27806.2 |
| 62.5° | 3581.9  | 3735.7  | 4705.4  | 6205.4  | 8082.1  | 21188.3 | 39806.8 | 45260.9 | 42356.6 | 32616.2 | 32843.6 |
| 65°   | 2899.8  | 2966.7  | 3423.6  | 5122.1  | 5868.9  | 12765.2 | 38177.4 | 54366.2 | 53283.0 | 39015.5 | 37954.5 |
| 67.5° | 2830.8  | 2853.1  | 3089.3  | 4299.7  | 5628.1  | 7174.9  | 30451.8 | 56069.1 | 57270.5 | 44991.4 | 40083.2 |
| 70°   | 2797.4  | 2875.3  | 3481.6  | 4103.4  | 5389.5  | 6051.6  | 18299.7 | 51401.8 | 53298.6 | 46553.7 | 37250.2 |
| 72.5° | 1357.4  | 1352.9  | 1752.0  | 3711.2  | 6071.6  | 6276.7  | 9401.6  | 41589.9 | 43493.5 | 40332.8 | 30610.1 |
| 75°   | 1094.4  | 1000.9  | 956.2   | 1359.6  | 5837.6  | 6481.8  | 5991.4  | 28617.4 | 29995.0 | 27041.5 | 18816.7 |
| 77.5° | 1038.7  | 927.3   | 849.3   | 851.4   | 2467.4  | 6874.0  | 5075.3  | 15838.9 | 16240.1 | 12214.6 | 5155.5  |
| 80°   | 860.4   | 757.8   | 702.1   | 791.2   | 1194.8  | 6546.4  | 5487.6  | 7168.3  | 6577.6  | 3000.2  | 1716.3  |
| 82.5° | 597.3   | 543.9   | 528.3   | 664.2   | 956.2   | 4665.2  | 6381.5  | 3851.6  | 3229.7  | 1502.4  | 1058.7  |
| 85°   | 381.1   | 325.4   | 361.1   | 483.7   | 744.5   | 2153.2  | 6573.1  | 3002.5  | 2387.2  | 954.0   | 597.3   |
| 87.5° | 176.1   | 142.7   | 178.3   | 267.4   | 485.8   | 742.2   | 6254.4  | 3372.4  | 2458.6  | 503.8   | 376.7   |
| 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°    | 9749.4  | 9749.4  | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 |
| 2.5°  | 9753.9  | 9711.5  | 9678.0 | 9615.7 | 9546.5 | 9479.7 | 9419.6 | 9343.8 | 9321.5 | 9301.4 | 9332.6 |
| 5°    | 9785.0  | 9742.7  | 9620.2 | 9428.4 | 9216.7 | 9018.4 | 8820.0 | 8650.5 | 8545.8 | 8487.8 | 8521.2 |
| 7.5°  | 9831.9  | 9771.7  | 9517.6 | 9165.4 | 8784.2 | 8436.6 | 8077.7 | 7790.1 | 7578.4 | 7478.1 | 7507.1 |
| 10°   | 9874.2  | 9758.4  | 9343.8 | 8815.5 | 8258.3 | 7741.1 | 7174.9 | 6706.9 | 6359.2 | 6176.4 | 6221.0 |
| 12.5° | 9892.2  | 9707.0  | 9100.8 | 8378.6 | 7614.1 | 6856.2 | 6022.6 | 5322.7 | 4823.5 | 4640.7 | 4602.8 |
| 15°   | 9910.0  | 9649.1  | 8833.3 | 7881.5 | 6836.2 | 5764.1 | 4596.1 | 3758.0 | 3343.5 | 3252.0 | 3232.0 |
| 17.5° | 9914.4  | 9548.8  | 8530.2 | 7342.1 | 5924.6 | 4464.6 | 3142.9 | 2610.1 | 2612.3 | 2759.5 | 2777.3 |
| 20°   | 9867.5  | 9399.5  | 8162.4 | 6671.3 | 4832.3 | 3087.1 | 2157.7 | 2066.2 | 2402.8 | 2770.6 | 2815.2 |
| 22.5° | 9760.5  | 9201.0  | 7745.6 | 5888.8 | 3581.9 | 2032.8 | 1669.5 | 1769.8 | 2204.5 | 2654.7 | 2706.0 |
| 25°   | 9624.5  | 8960.4  | 7252.9 | 4981.6 | 2371.6 | 1453.2 | 1399.8 | 1522.4 | 1816.6 | 2117.6 | 2146.5 |
| 27.5° | 9439.6  | 8675.0  | 6700.3 | 3943.0 | 1540.2 | 1196.9 | 1232.6 | 1315.1 | 1435.4 | 1569.2 | 1582.5 |
| 30°   | 9201.0  | 8334.1  | 6109.6 | 2875.3 | 1163.5 | 1076.5 | 1127.9 | 1172.5 | 1223.7 | 1299.5 | 1306.2 |
| 32.5° | 8926.9  | 8006.4  | 5503.3 | 1986.0 | 1032.0 | 1014.2 | 1054.3 | 1076.5 | 1116.7 | 1163.5 | 1168.0 |
| 35°   | 8697.4  | 7694.4  | 4874.7 | 1404.2 | 976.2  | 967.4  | 994.1  | 1003.0 | 1040.9 | 1092.1 | 1096.6 |
| 37.5° | 8565.8  | 7440.2  | 4226.0 | 1132.3 | 938.4  | 925.0  | 940.6  | 940.6  | 994.1  | 1069.8 | 1081.0 |
| 40°   | 8574.7  | 7299.8  | 3577.4 | 1023.1 | 907.2  | 889.4  | 891.5  | 891.5  | 960.7  | 1043.1 | 1049.9 |
| 42.5° | 8817.7  | 7335.4  | 3002.5 | 980.7  | 882.7  | 862.6  | 851.4  | 858.1  | 916.1  | 969.5  | 974.0  |
| 45°   | 9388.3  | 7587.3  | 2463.0 | 954.0  | 858.1  | 851.4  | 827.0  | 824.7  | 847.0  | 871.6  | 871.6  |
| 47.5° | 10324.5 | 8084.4  | 2097.4 | 936.2  | 838.1  | 835.9  | 806.9  | 777.9  | 775.6  | 784.6  | 784.6  |
| 50°   | 11846.9 | 8940.3  | 1852.3 | 916.1  | 824.7  | 806.9  | 773.4  | 728.9  | 713.3  | 719.9  | 719.9  |
| 52.5° | 14129.3 | 10467.1 | 1758.6 | 889.4  | 795.7  | 766.8  | 728.9  | 684.3  | 671.0  | 673.1  | 673.1  |
| 55°   | 17122.8 | 12812.0 | 1745.3 | 858.1  | 764.5  | 717.8  | 686.4  | 653.1  | 637.5  | 641.9  | 641.9  |
| 57.5° | 20780.4 | 16055.1 | 1983.7 | 809.1  | 722.2  | 668.6  | 650.8  | 628.6  | 617.5  | 624.1  | 621.9  |
| 60°   | 25227.2 | 20299.1 | 2942.3 | 757.8  | 679.8  | 624.1  | 624.1  | 606.3  | 597.3  | 604.1  | 601.8  |
| 62.5° | 30349.4 | 25173.8 | 4136.9 | 719.9  | 635.3  | 588.5  | 597.3  | 588.5  | 579.5  | 584.0  | 581.8  |
| 65°   | 34892.0 | 28349.9 | 3873.9 | 690.9  | 590.6  | 555.0  | 570.7  | 566.2  | 559.5  | 563.9  | 561.7  |
| 67.5° | 35023.5 | 27173.1 | 2175.5 | 659.8  | 548.4  | 521.6  | 543.9  | 541.6  | 537.2  | 541.6  | 539.4  |
| 70°   | 31256.6 | 22944.8 | 1225.9 | 601.8  | 503.8  | 481.5  | 512.7  | 510.5  | 506.0  | 514.9  | 512.7  |
| 72.5° | 25042.2 | 16650.2 | 896.0  | 530.5  | 459.2  | 439.1  | 474.7  | 472.5  | 472.5  | 485.8  | 479.2  |
| 75°   | 14410.1 | 8568.1  | 715.5  | 454.7  | 412.4  | 396.7  | 428.0  | 430.2  | 434.7  | 452.5  | 439.1  |
| 77.5° | 4107.9  | 2670.3  | 584.0  | 385.5  | 354.4  | 347.7  | 378.9  | 383.4  | 385.5  | 405.7  | 387.9  |
| 80°   | 1526.8  | 1230.4  | 481.5  | 323.2  | 289.7  | 291.9  | 321.0  | 327.7  | 329.9  | 349.9  | 327.7  |
| 82.5° | 974.0   | 811.4   | 390.0  | 249.6  | 227.4  | 225.1  | 260.8  | 269.7  | 269.7  | 271.9  | 258.5  |
| 85°   | 568.3   | 485.8   | 294.2  | 180.5  | 160.5  | 153.8  | 193.9  | 209.6  | 202.7  | 198.5  | 189.4  |
| 87.5° | 381.1   | 334.4   | 180.5  | 100.3  | 87.0   | 82.5   | 113.6  | 124.8  | 120.4  | 113.6  | 107.0  |
| 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)