

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: P192658

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192658  
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-10-LED-E1-AFL-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA 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: 30733.5 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 323  
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

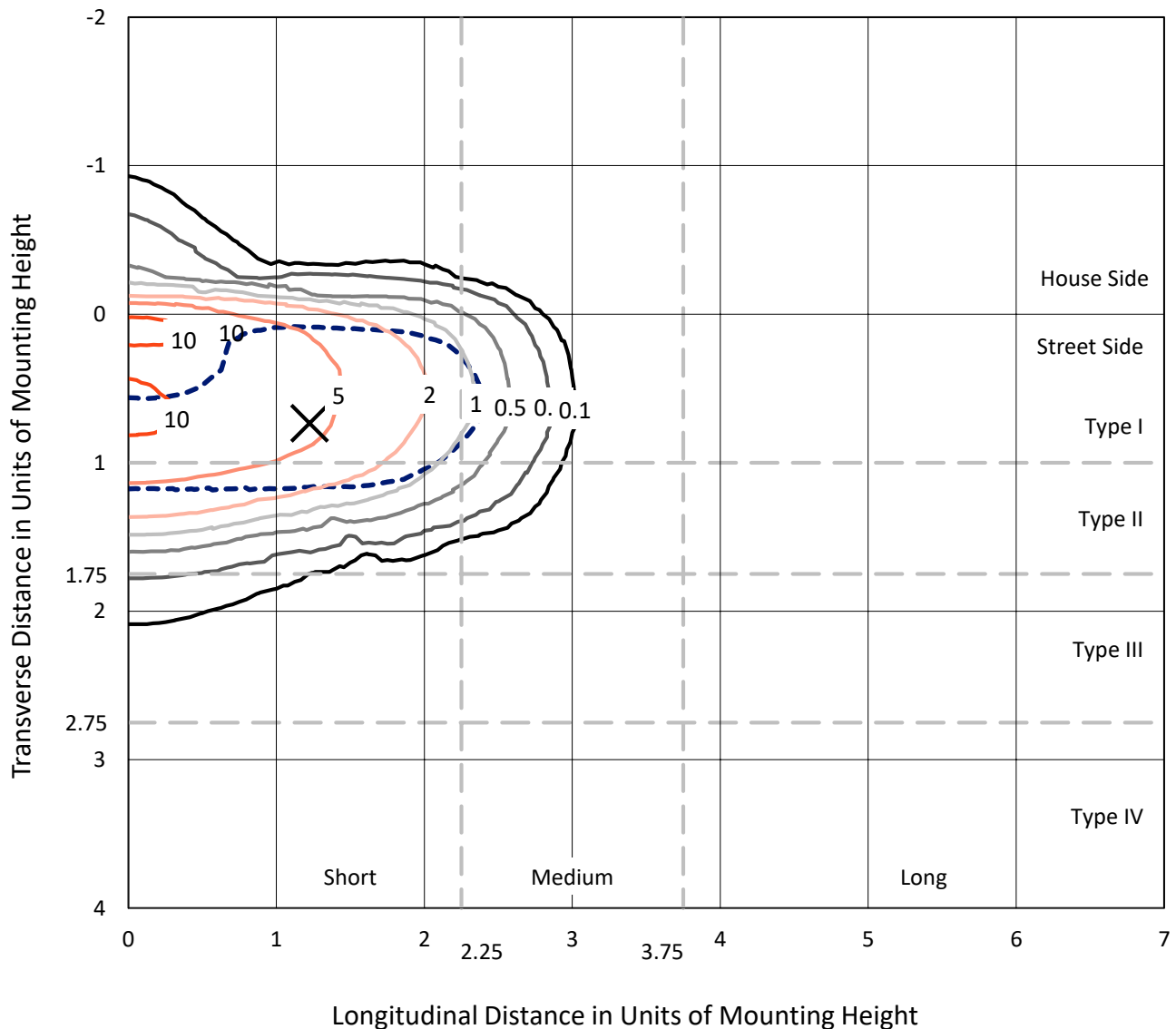


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

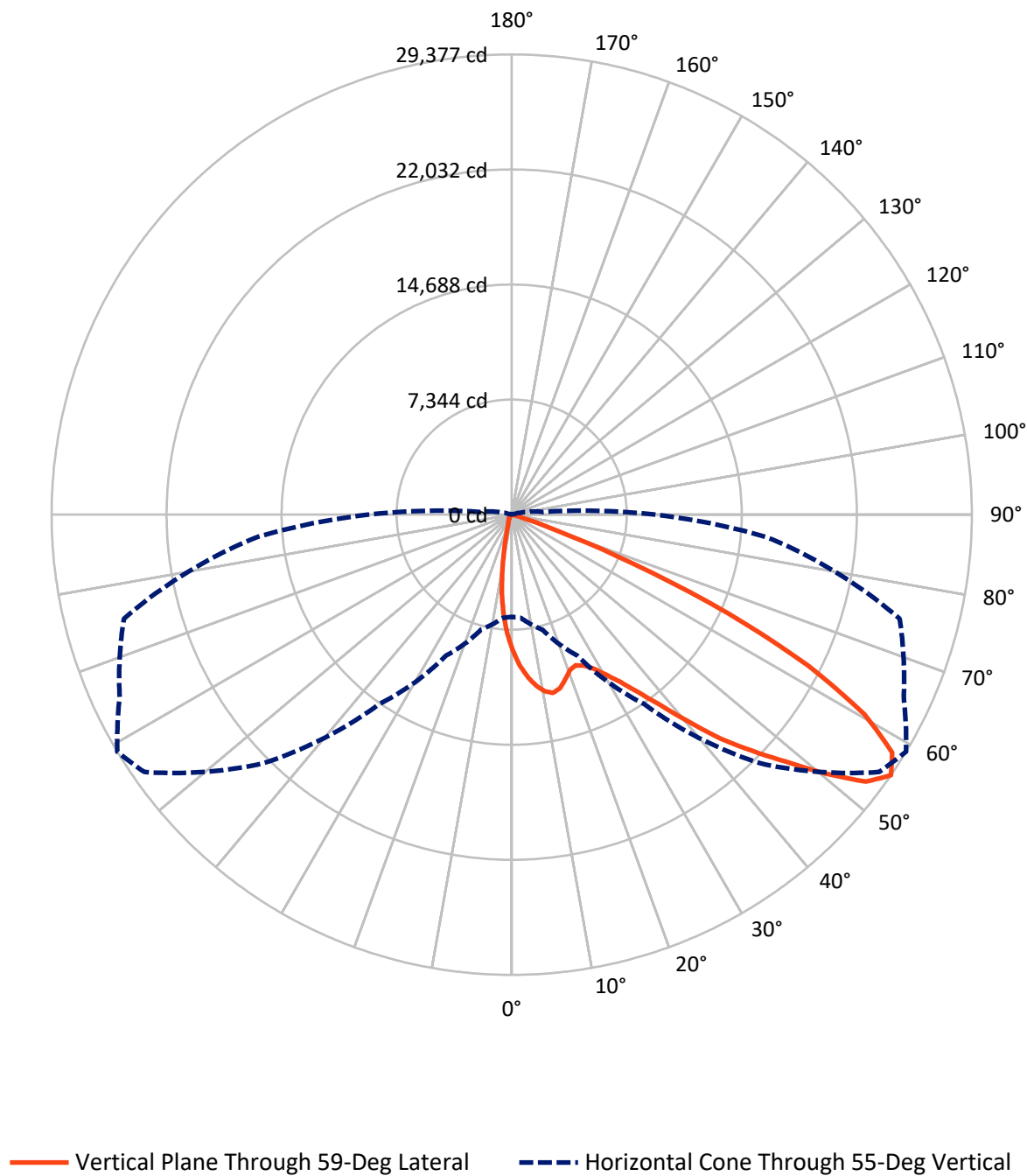


Based on 30 foot mounting height. Maximum calculated value = 12 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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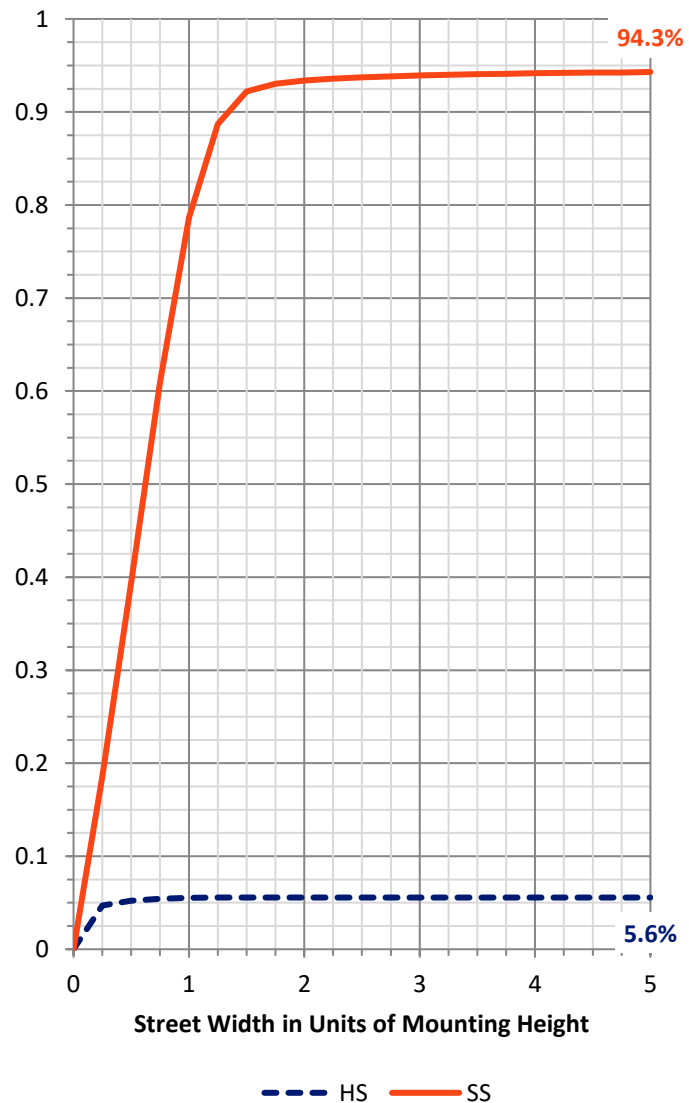
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1716.6   | 0.0    | 1716.6  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 29016.9  | 0.0    | 29016.9 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 30733.5  | 0.0    | 30733.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 724.6   | 2.4       |
| 10°-20°   | 1735.0  | 5.6       |
| 20°-30°   | 2952.3  | 9.6       |
| 30°-40°   | 5077.3  | 16.5      |
| 40°-50°   | 7838.8  | 25.5      |
| 50°-60°   | 7880.5  | 25.6      |
| 60°-70°   | 4041.2  | 13.1      |
| 70°-80°   | 437.9   | 1.4       |
| 80°-90°   | 45.8    | 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°    | 30733.5 | 100.0     |
| 0°-180°   | 30733.5 | 100.0     |

**Coefficient of Utilization**



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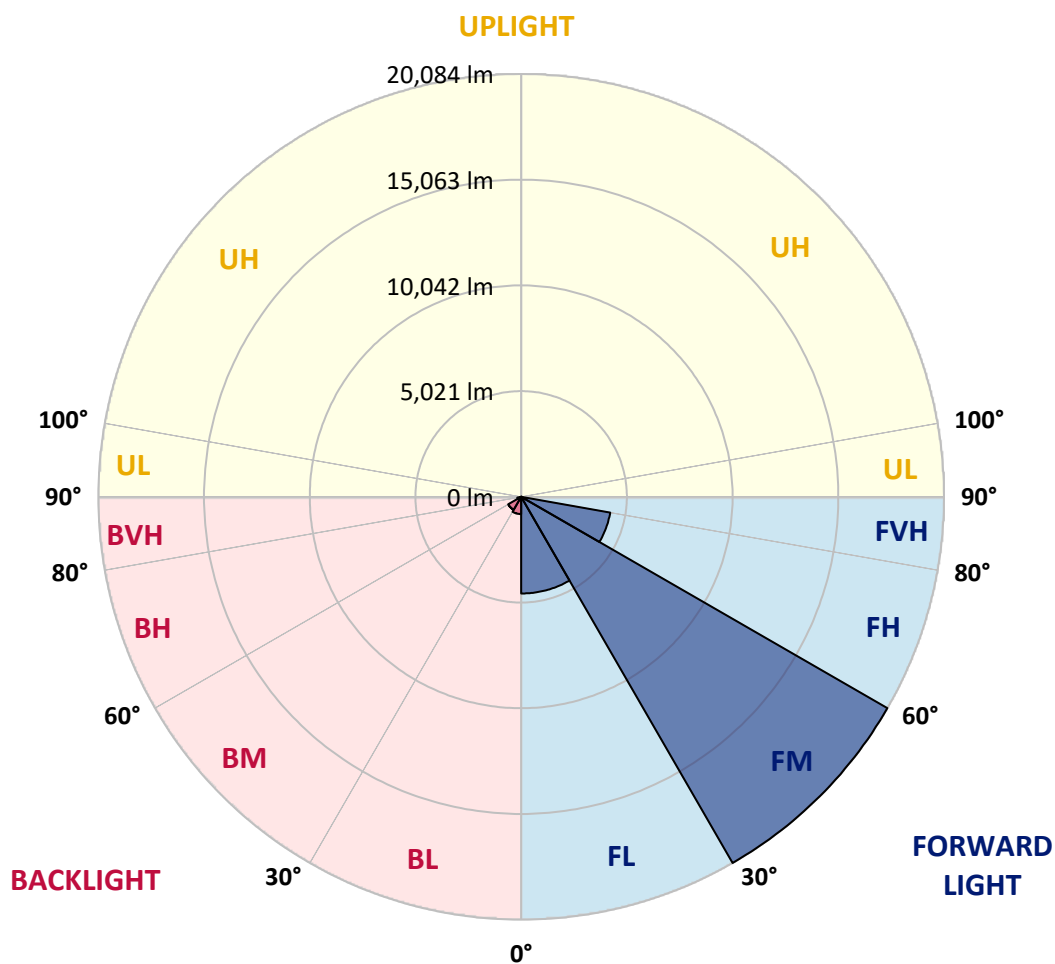
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4592.6  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 20084.2 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 4295.2  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 44.8    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 819.4   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 712.4   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 183.9   | 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°    | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  | 8651.3  |
| 2.5°  | 10236.6 | 10127.8 | 10095.1 | 10073.3 | 9973.6  | 9848.4  | 9677.9  | 9598.1  | 9434.9  | 9171.9  | 8849.1  |
| 5°    | 11174.3 | 11154.3 | 11081.7 | 11041.8 | 10934.8 | 10757.1 | 10485.1 | 10354.5 | 10095.1 | 9652.5  | 9074.0  |
| 7.5°  | 10764.3 | 10889.6 | 10989.3 | 11156.1 | 11366.5 | 11359.2 | 11130.7 | 10994.6 | 10704.4 | 10120.4 | 9324.3  |
| 10°   | 9180.9  | 9282.5  | 9445.8  | 9824.8  | 10597.5 | 11279.5 | 11547.8 | 11450.0 | 11217.7 | 10550.3 | 9565.5  |
| 12.5° | 8870.9  | 8860.0  | 8889.0  | 8999.5  | 9404.1  | 10376.3 | 11477.1 | 11674.8 | 11627.7 | 10944.0 | 9794.0  |
| 15°   | 9035.8  | 9023.1  | 9019.6  | 9057.7  | 9155.6  | 9565.5  | 10945.7 | 11513.4 | 11878.0 | 11308.5 | 9988.1  |
| 17.5° | 9498.4  | 9444.0  | 9415.0  | 9384.2  | 9355.1  | 9456.7  | 10307.3 | 11061.9 | 11916.1 | 11627.7 | 10149.5 |
| 20°   | 10291.0 | 10200.3 | 10093.3 | 9919.2  | 9756.0  | 9705.2  | 10038.8 | 10597.5 | 11780.0 | 11870.7 | 10254.7 |
| 22.5° | 11286.7 | 11170.6 | 10985.6 | 10668.2 | 10336.4 | 10144.0 | 10171.3 | 10450.5 | 11576.9 | 12135.5 | 10303.7 |
| 25°   | 12405.8 | 12257.0 | 12010.4 | 11569.7 | 11081.7 | 10740.7 | 10563.0 | 10661.0 | 11484.4 | 12445.6 | 10359.9 |
| 27.5° | 13604.6 | 13439.6 | 13116.7 | 12516.4 | 11963.3 | 11502.5 | 11139.7 | 11127.1 | 11642.2 | 12851.9 | 10450.5 |
| 30°   | 14792.6 | 14767.2 | 14346.4 | 13711.6 | 12978.9 | 12418.4 | 11896.1 | 11829.0 | 12082.9 | 13414.2 | 10630.2 |
| 32.5° | 16377.8 | 16187.3 | 15672.2 | 15019.4 | 14174.1 | 13501.2 | 12882.8 | 12726.7 | 12759.4 | 14068.9 | 10907.7 |
| 35°   | 18376.5 | 18167.8 | 17442.3 | 16541.0 | 15596.1 | 14801.7 | 14117.9 | 13905.7 | 13825.8 | 15140.8 | 11375.5 |
| 37.5° | 19667.9 | 19664.2 | 19209.0 | 18291.2 | 17277.3 | 16401.4 | 15657.7 | 15409.3 | 15247.7 | 16435.8 | 12101.0 |
| 40°   | 19702.2 | 19787.5 | 19847.4 | 19838.3 | 19116.4 | 18309.3 | 17649.2 | 17342.6 | 16967.2 | 18166.1 | 13038.8 |
| 42.5° | 18644.9 | 18864.3 | 19392.1 | 20288.2 | 20716.1 | 20395.1 | 19838.3 | 19537.2 | 18978.7 | 20017.8 | 14181.5 |
| 45°   | 17215.7 | 17368.1 | 18291.2 | 19941.7 | 21583.1 | 22462.7 | 22038.3 | 21499.7 | 20763.3 | 21949.5 | 15206.1 |
| 47.5° | 16575.5 | 16602.7 | 17199.4 | 19011.2 | 21648.4 | 24156.7 | 24414.3 | 23538.3 | 22384.8 | 23505.6 | 16007.8 |
| 50°   | 14662.0 | 14711.0 | 15534.4 | 17398.9 | 20883.0 | 24956.6 | 26801.2 | 25970.5 | 24153.2 | 24704.5 | 16299.8 |
| 52.5° | 11050.9 | 11119.9 | 12164.5 | 14749.0 | 18779.2 | 24615.7 | 28509.7 | 28308.3 | 26090.1 | 25290.4 | 16316.1 |
| 55°   | 6520.3  | 6610.9  | 7608.5  | 9928.3  | 14770.9 | 22446.4 | 28636.7 | 29376.6 | 27619.1 | 25636.7 | 16290.7 |
| 57.5° | 3045.2  | 3108.7  | 3680.0  | 5114.7  | 9186.4  | 17739.9 | 26725.0 | 28643.9 | 28462.5 | 25819.9 | 16470.3 |
| 60°   | 1617.8  | 1635.9  | 1773.9  | 2214.5  | 4151.6  | 11248.6 | 22994.1 | 25865.3 | 27693.5 | 26073.8 | 16689.7 |
| 62.5° | 1237.0  | 1242.4  | 1235.1  | 1287.7  | 1744.8  | 4993.1  | 17380.8 | 21263.9 | 24597.5 | 25883.4 | 16446.7 |
| 65°   | 1072.0  | 1081.0  | 1030.2  | 1017.5  | 1119.1  | 1781.0  | 10325.4 | 15157.1 | 19328.6 | 23313.4 | 14790.8 |
| 67.5° | 961.3   | 964.9   | 903.2   | 850.6   | 868.7   | 963.1   | 4073.6  | 8297.7  | 12793.9 | 17088.7 | 10720.8 |
| 70°   | 885.1   | 881.5   | 814.3   | 731.0   | 707.4   | 658.4   | 1294.9  | 3041.6  | 6114.0  | 8665.9  | 4985.8  |
| 72.5° | 783.5   | 785.3   | 752.7   | 643.9   | 587.6   | 460.6   | 600.4   | 886.8   | 1824.6  | 2361.4  | 1168.0  |
| 75°   | 694.7   | 685.6   | 645.7   | 576.8   | 484.2   | 302.8   | 297.4   | 395.4   | 562.2   | 558.7   | 252.1   |
| 77.5° | 502.4   | 493.3   | 506.0   | 473.4   | 371.8   | 195.9   | 148.7   | 190.4   | 228.6   | 221.2   | 70.7    |
| 80°   | 368.2   | 362.7   | 326.4   | 393.6   | 328.4   | 134.2   | 92.6    | 101.6   | 117.9   | 99.8    | 21.8    |
| 82.5° | 252.1   | 250.3   | 230.3   | 217.7   | 186.9   | 81.6    | 58.0    | 63.5    | 76.2    | 56.3    | 10.9    |
| 85°   | 39.9    | 45.4    | 166.8   | 132.4   | 110.7   | 36.3    | 39.9    | 43.4    | 50.8    | 30.8    | 3.6     |
| 87.5° | 0.0     | 0.0     | 78.0    | 69.0    | 21.8    | 14.5    | 23.6    | 25.3    | 25.3    | 16.3    | 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°    | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 | 8651.3 |
| 2.5°  | 8684.0 | 8502.7 | 8167.1 | 7820.7 | 7499.7 | 7116.9 | 6854.0 | 6656.3 | 6427.7 | 6366.1 | 6500.3 |
| 5°    | 8743.9 | 8401.1 | 7679.3 | 6893.9 | 6155.6 | 5337.8 | 4712.1 | 4216.9 | 3768.9 | 3616.5 | 3754.3 |
| 7.5°  | 8838.2 | 8328.5 | 7151.4 | 5858.3 | 4574.1 | 3297.3 | 2423.2 | 1848.1 | 1481.8 | 1373.0 | 1431.0 |
| 10°   | 8932.5 | 8223.4 | 6540.3 | 4632.1 | 2876.6 | 1605.1 | 1044.7 | 834.3  | 756.3  | 740.0  | 749.1  |
| 12.5° | 9010.5 | 8081.9 | 5794.8 | 3293.7 | 1538.1 | 859.7  | 683.8  | 649.3  | 638.4  | 638.4  | 642.0  |
| 15°   | 9057.7 | 7867.9 | 4911.5 | 2094.8 | 885.1  | 649.3  | 596.7  | 585.8  | 585.8  | 587.6  | 591.3  |
| 17.5° | 9052.2 | 7595.8 | 3944.8 | 1267.7 | 662.0  | 574.9  | 544.1  | 535.1  | 533.1  | 536.9  | 538.6  |
| 20°   | 8985.2 | 7240.3 | 2974.5 | 836.2  | 576.8  | 524.1  | 493.3  | 477.0  | 475.2  | 478.8  | 482.5  |
| 22.5° | 8858.2 | 6801.4 | 2127.5 | 643.9  | 520.5  | 475.2  | 437.1  | 422.7  | 422.7  | 426.2  | 429.8  |
| 25°   | 8704.0 | 6264.5 | 1454.6 | 546.0  | 469.7  | 422.7  | 386.3  | 373.6  | 377.3  | 386.3  | 388.1  |
| 27.5° | 8511.8 | 5660.6 | 988.5  | 467.9  | 408.1  | 370.0  | 342.7  | 333.7  | 342.7  | 355.5  | 359.1  |
| 30°   | 8346.7 | 5031.2 | 705.5  | 404.5  | 346.5  | 319.2  | 302.8  | 302.8  | 315.5  | 339.1  | 344.6  |
| 32.5° | 8219.7 | 4421.8 | 544.1  | 357.3  | 301.1  | 277.5  | 268.4  | 277.5  | 297.4  | 321.0  | 326.4  |
| 35°   | 8203.4 | 3919.4 | 460.6  | 319.2  | 268.4  | 244.8  | 241.3  | 257.6  | 277.5  | 295.6  | 299.3  |
| 37.5° | 8328.5 | 3455.1 | 415.3  | 288.3  | 239.4  | 217.7  | 214.0  | 234.0  | 253.9  | 275.7  | 281.2  |
| 40°   | 8566.2 | 3090.5 | 382.7  | 259.4  | 215.8  | 192.3  | 184.9  | 199.5  | 226.7  | 255.7  | 263.0  |
| 42.5° | 8874.5 | 2789.5 | 346.5  | 230.3  | 192.3  | 159.6  | 150.6  | 166.8  | 195.9  | 226.7  | 235.8  |
| 45°   | 9168.3 | 2530.1 | 306.5  | 197.6  | 161.3  | 123.4  | 119.7  | 141.5  | 156.0  | 186.9  | 194.1  |
| 47.5° | 9329.7 | 2301.5 | 272.0  | 161.3  | 125.1  | 99.8   | 99.8   | 105.2  | 119.7  | 156.0  | 163.3  |
| 50°   | 9275.3 | 2118.4 | 235.8  | 119.7  | 87.1   | 76.2   | 76.2   | 74.4   | 96.1   | 125.1  | 130.6  |
| 52.5° | 9166.6 | 2013.2 | 203.1  | 92.6   | 59.9   | 54.4   | 48.9   | 54.4   | 67.0   | 79.8   | 81.6   |
| 55°   | 9150.1 | 1995.1 | 170.5  | 74.4   | 41.7   | 36.3   | 27.2   | 27.2   | 27.2   | 25.3   | 21.8   |
| 57.5° | 9277.1 | 2024.1 | 143.2  | 59.9   | 30.8   | 23.6   | 14.5   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 9407.7 | 2054.9 | 123.4  | 41.7   | 21.8   | 12.7   | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 9190.1 | 1986.0 | 103.4  | 25.3   | 16.3   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 8072.8 | 1690.4 | 81.6   | 18.1   | 10.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 5742.2 | 1131.7 | 54.4   | 10.9   | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2620.8 | 473.4  | 34.4   | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 560.4  | 147.0  | 23.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 114.2  | 107.0  | 9.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 36.3   | 168.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 21.8   | 121.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.6    | 18.1   | 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)