

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: P192949

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL4-7030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892.6 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 59  
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

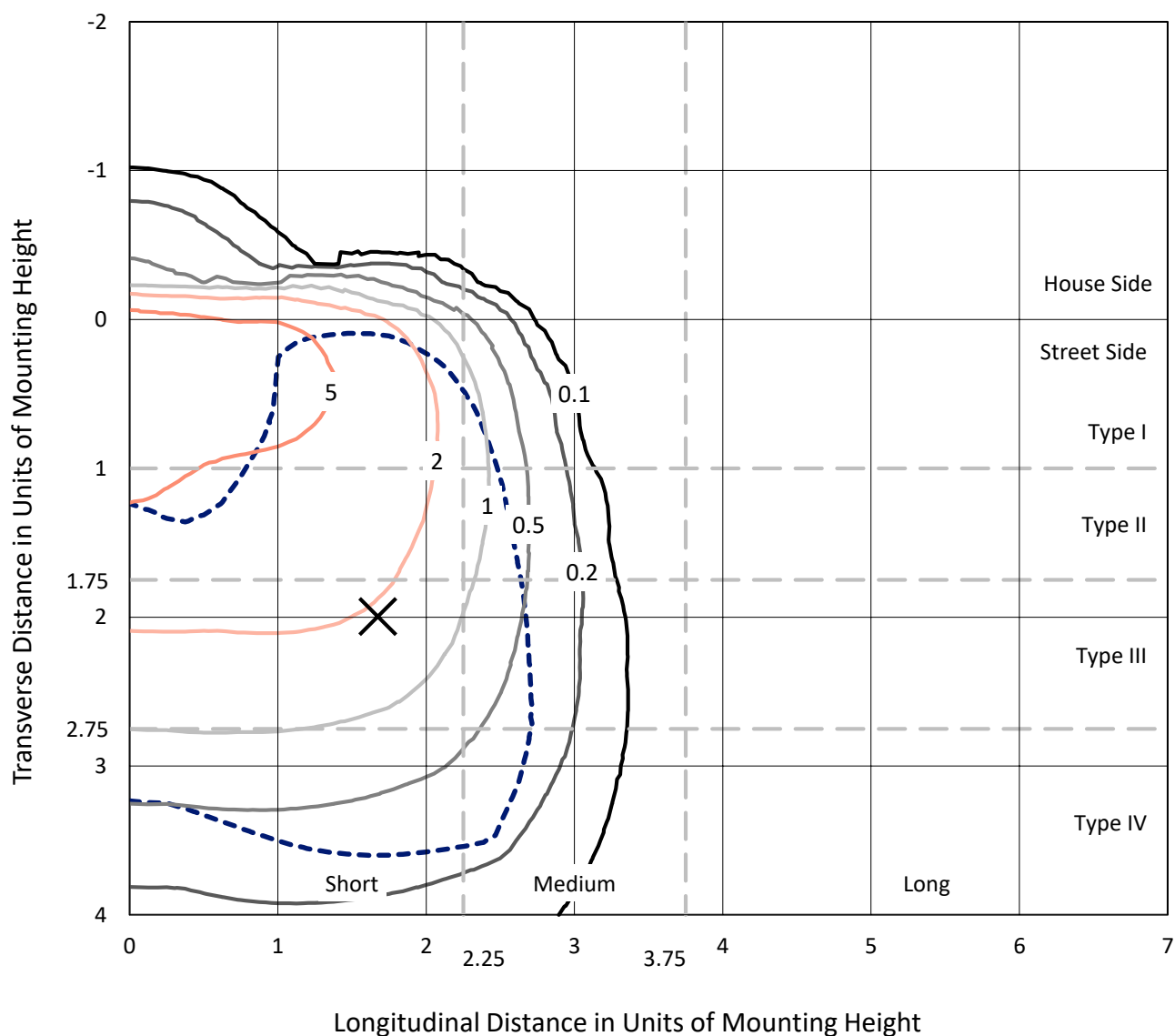


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

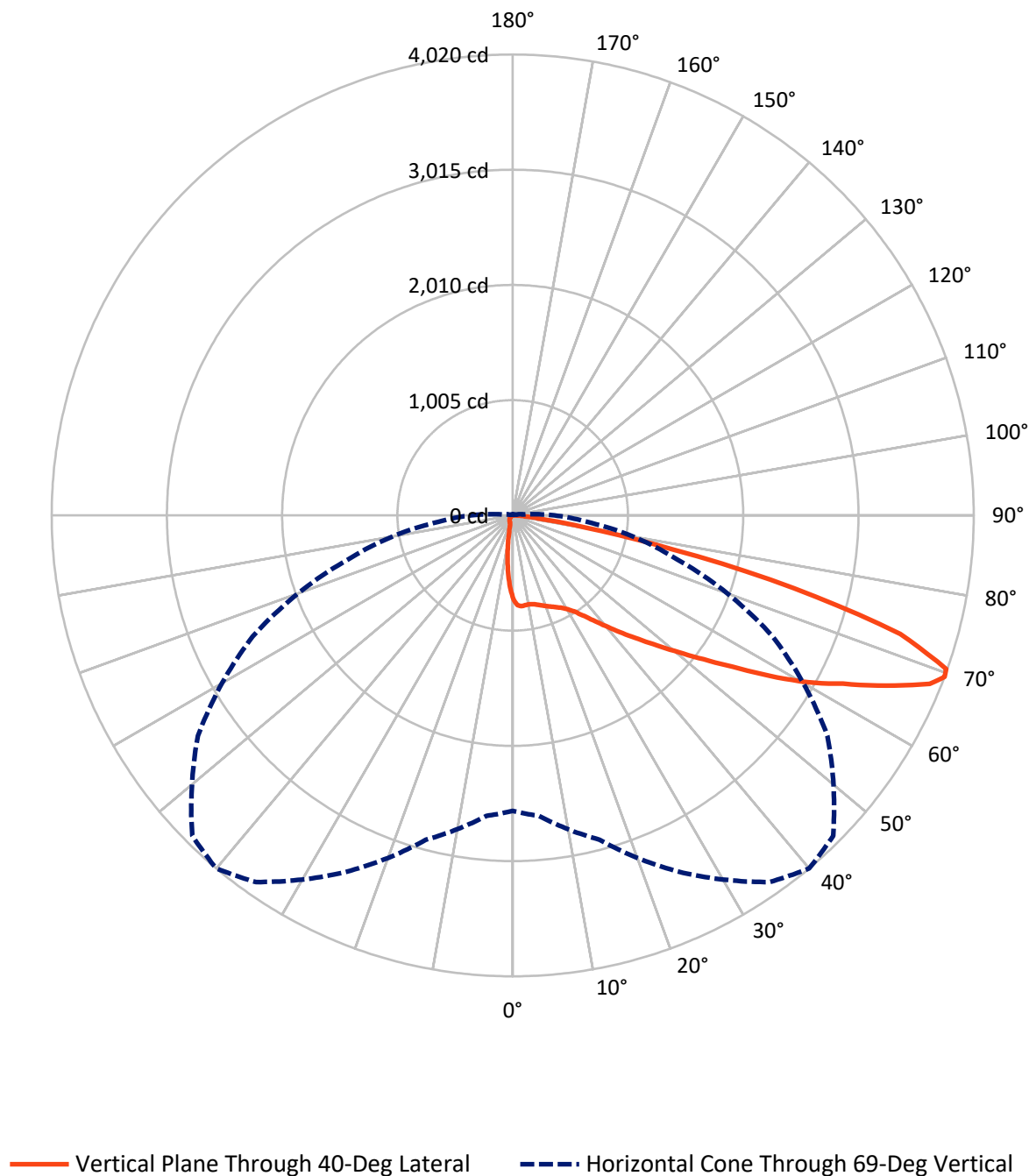


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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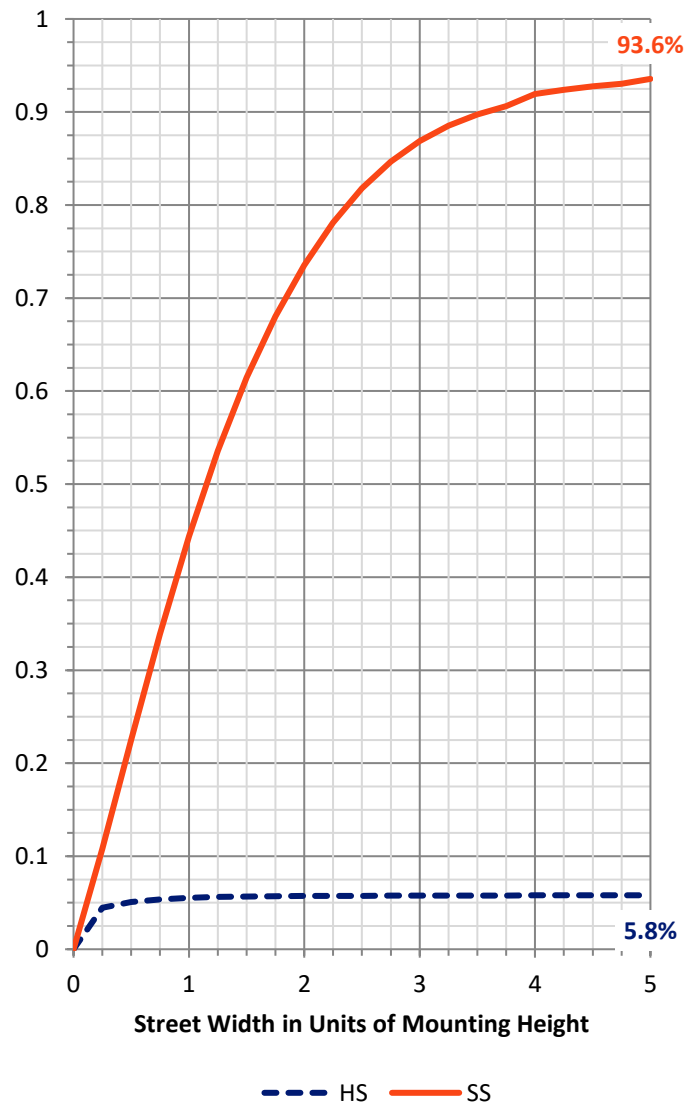
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 286.3    | 0.0    | 286.3  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 4606.4   | 0.0    | 4606.4 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 4892.6   | 0.0    | 4892.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.3   | 1.2       |
| 10°-20°   | 145.7  | 3.0       |
| 20°-30°   | 245.5  | 5.0       |
| 30°-40°   | 401.9  | 8.2       |
| 40°-50°   | 695.9  | 14.2      |
| 50°-60°   | 1096.0 | 22.4      |
| 60°-70°   | 1431.4 | 29.3      |
| 70°-80°   | 737.2  | 15.1      |
| 80°-90°   | 79.8   | 1.6       |
| 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°    | 4892.6 | 100.0     |
| 0°-180°   | 4892.6 | 100.0     |

**Coefficient of Utilization**



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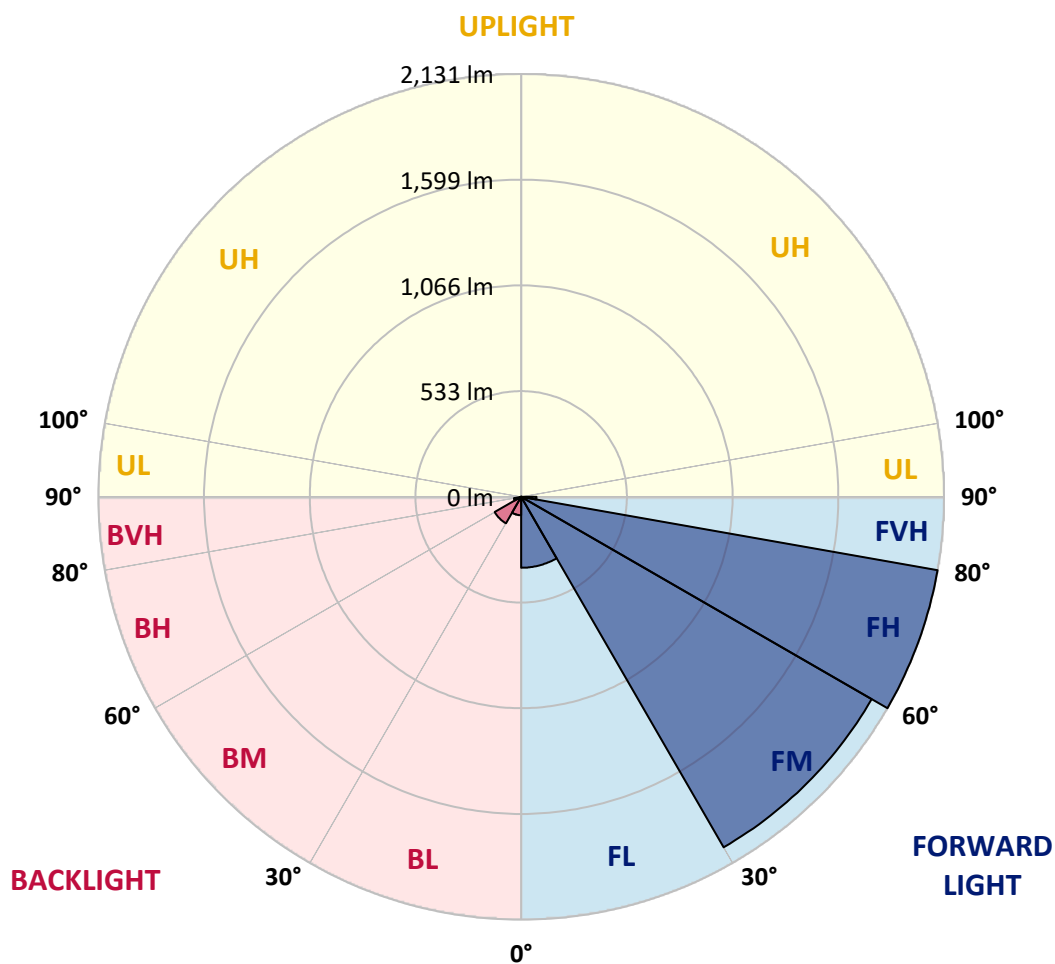
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 357.8  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2039.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 2131.4 | 43.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 77.2   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 92.7   | 1.9       | B0/110                  |      |         |
| BM   | (30°-60°)   | 153.9  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 37.2   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.5    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  |
| 2.5°  | 802.6  | 798.2  | 795.6  | 792.1  | 787.8  | 783.9  | 782.6  | 771.8  | 761.5  | 747.6  | 731.6  |
| 5°    | 817.5  | 816.0  | 811.4  | 806.7  | 801.4  | 795.6  | 792.4  | 779.6  | 765.1  | 744.7  | 716.7  |
| 7.5°  | 818.9  | 817.1  | 811.4  | 804.9  | 797.7  | 790.7  | 785.1  | 772.4  | 759.0  | 738.3  | 704.1  |
| 10°   | 816.6  | 814.5  | 810.1  | 803.2  | 794.2  | 787.4  | 782.0  | 769.7  | 758.4  | 739.6  | 701.9  |
| 12.5° | 814.0  | 811.9  | 809.9  | 806.5  | 798.5  | 793.9  | 789.2  | 777.6  | 767.4  | 751.7  | 710.3  |
| 15°   | 816.6  | 815.4  | 817.8  | 816.2  | 811.9  | 807.9  | 803.2  | 792.6  | 783.4  | 770.3  | 725.7  |
| 17.5° | 827.6  | 827.6  | 835.0  | 835.9  | 831.8  | 825.9  | 819.2  | 808.7  | 800.9  | 789.8  | 744.0  |
| 20°   | 853.7  | 852.8  | 862.0  | 863.8  | 853.9  | 844.9  | 835.0  | 822.1  | 816.0  | 809.1  | 762.2  |
| 22.5° | 898.1  | 894.1  | 899.6  | 897.9  | 878.3  | 864.4  | 852.1  | 836.4  | 833.2  | 830.1  | 782.2  |
| 25°   | 956.1  | 953.8  | 957.5  | 940.4  | 906.0  | 887.0  | 872.6  | 854.7  | 854.7  | 858.0  | 804.9  |
| 27.5° | 1040.2 | 1031.5 | 1018.8 | 988.5  | 936.9  | 912.8  | 897.0  | 878.0  | 883.1  | 895.0  | 835.0  |
| 30°   | 1126.5 | 1116.8 | 1087.4 | 1040.8 | 974.5  | 949.1  | 930.8  | 911.0  | 922.5  | 944.4  | 875.1  |
| 32.5° | 1211.4 | 1200.8 | 1159.1 | 1100.2 | 1028.3 | 1003.0 | 985.2  | 963.3  | 982.9  | 1019.6 | 933.9  |
| 35°   | 1293.9 | 1284.4 | 1236.3 | 1167.0 | 1100.0 | 1079.1 | 1062.6 | 1043.8 | 1068.8 | 1120.0 | 1016.9 |
| 37.5° | 1386.5 | 1376.0 | 1317.5 | 1242.4 | 1187.1 | 1172.0 | 1160.0 | 1141.0 | 1184.7 | 1259.9 | 1132.6 |
| 40°   | 1500.4 | 1482.6 | 1403.8 | 1328.9 | 1287.8 | 1280.5 | 1272.4 | 1269.8 | 1337.7 | 1441.5 | 1286.6 |
| 42.5° | 1630.9 | 1601.7 | 1494.0 | 1420.1 | 1398.5 | 1403.8 | 1401.7 | 1413.4 | 1529.0 | 1667.7 | 1474.2 |
| 45°   | 1761.4 | 1723.8 | 1594.5 | 1517.3 | 1520.3 | 1538.6 | 1550.0 | 1596.5 | 1768.6 | 1926.8 | 1676.0 |
| 47.5° | 1872.0 | 1835.0 | 1690.9 | 1622.4 | 1657.4 | 1693.5 | 1724.3 | 1812.6 | 2015.0 | 2181.9 | 1833.1 |
| 50°   | 1966.6 | 1931.7 | 1793.1 | 1738.1 | 1816.7 | 1874.9 | 1925.0 | 2055.8 | 2280.0 | 2376.2 | 1943.0 |
| 52.5° | 2044.1 | 2020.9 | 1899.2 | 1870.5 | 1998.7 | 2084.0 | 2157.5 | 2314.1 | 2514.7 | 2533.9 | 2028.7 |
| 55°   | 2119.5 | 2102.9 | 2013.0 | 2028.1 | 2212.5 | 2328.7 | 2421.5 | 2588.2 | 2716.8 | 2665.6 | 2110.8 |
| 57.5° | 2206.4 | 2191.2 | 2142.9 | 2227.9 | 2493.6 | 2639.7 | 2741.1 | 2831.0 | 2894.9 | 2800.2 | 2188.3 |
| 60°   | 2294.9 | 2286.1 | 2287.4 | 2449.8 | 2816.1 | 2956.5 | 3012.5 | 3035.8 | 3069.5 | 2926.8 | 2192.7 |
| 62.5° | 2379.3 | 2395.9 | 2452.5 | 2696.7 | 3125.2 | 3233.0 | 3261.2 | 3284.3 | 3244.6 | 2946.9 | 2025.7 |
| 65°   | 2522.4 | 2549.4 | 2684.3 | 3027.3 | 3465.0 | 3580.3 | 3609.5 | 3530.6 | 3272.2 | 2687.1 | 1647.7 |
| 67.5° | 2592.1 | 2641.8 | 2882.3 | 3335.4 | 3794.7 | 3922.9 | 3912.0 | 3546.5 | 2936.5 | 2049.0 | 1057.4 |
| 69°   | 2577.7 | 2630.4 | 2928.0 | 3429.7 | 3904.2 | 4020.4 | 3952.0 | 3350.6 | 2501.6 | 1484.4 | 649.1  |
| 70°   | 2519.9 | 2573.3 | 2904.4 | 3426.3 | 3918.1 | 4010.3 | 3878.0 | 3108.5 | 2115.2 | 1085.4 | 406.0  |
| 72.5° | 2104.5 | 2150.4 | 2578.5 | 3097.0 | 3609.5 | 3534.6 | 3244.2 | 2153.6 | 1030.7 | 295.5  | 91.4   |
| 75°   | 1295.4 | 1321.1 | 1850.2 | 2333.0 | 2726.2 | 2533.9 | 2161.4 | 1071.4 | 307.2  | 83.6   | 50.7   |
| 77.5° | 684.4  | 696.1  | 1013.0 | 1375.1 | 1728.2 | 1429.9 | 1107.8 | 417.9  | 141.5  | 52.5   | 36.7   |
| 80°   | 404.5  | 413.2  | 545.4  | 628.8  | 747.9  | 624.6  | 442.9  | 256.5  | 101.4  | 32.9   | 32.7   |
| 82.5° | 231.5  | 237.1  | 395.5  | 349.5  | 294.7  | 251.7  | 220.4  | 243.2  | 60.8   | 22.2   | 33.8   |
| 85°   | 85.0   | 86.2   | 222.5  | 265.9  | 175.4  | 104.3  | 109.5  | 201.6  | 16.3   | 13.9   | 26.6   |
| 87.5° | 39.7   | 38.8   | 114.5  | 162.8  | 102.4  | 66.1   | 85.3   | 44.2   | 6.4    | 9.1    | 7.3    |
| 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°    | 731.0  | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 |
| 2.5°  | 722.2  | 711.5 | 691.9 | 671.8 | 651.5 | 635.8 | 620.3 | 608.1 | 603.9 | 596.4 | 597.0 |
| 5°    | 700.2  | 680.3 | 639.5 | 598.2 | 555.0 | 519.5 | 486.1 | 459.0 | 445.9 | 432.4 | 432.4 |
| 7.5°  | 680.9  | 652.1 | 588.3 | 521.0 | 451.4 | 392.9 | 340.2 | 300.6 | 278.7 | 261.2 | 260.9 |
| 10°   | 673.6  | 634.6 | 545.4 | 449.0 | 352.2 | 272.3 | 209.7 | 169.5 | 148.8 | 135.4 | 134.8 |
| 12.5° | 676.9  | 628.5 | 512.5 | 382.6 | 260.9 | 175.1 | 121.5 | 95.5  | 86.8  | 82.7  | 82.7  |
| 15°   | 686.1  | 626.7 | 479.6 | 317.7 | 184.3 | 109.5 | 80.7  | 73.6  | 73.1  | 73.1  | 73.1  |
| 17.5° | 697.5  | 627.2 | 445.9 | 254.6 | 125.5 | 78.3  | 69.6  | 68.8  | 69.3  | 69.3  | 69.3  |
| 20°   | 709.1  | 627.5 | 409.5 | 196.0 | 88.5  | 68.2  | 65.5  | 65.2  | 65.8  | 65.8  | 66.1  |
| 22.5° | 723.4  | 629.0 | 373.0 | 146.5 | 73.1  | 64.4  | 62.3  | 62.3  | 62.6  | 62.6  | 62.3  |
| 25°   | 739.6  | 631.9 | 335.2 | 108.6 | 66.6  | 61.7  | 60.0  | 59.6  | 60.0  | 59.6  | 59.4  |
| 27.5° | 760.1  | 636.0 | 293.0 | 85.0  | 63.8  | 59.1  | 57.7  | 57.7  | 57.4  | 57.1  | 56.9  |
| 30°   | 785.7  | 640.7 | 245.5 | 72.2  | 60.8  | 56.9  | 55.2  | 55.0  | 54.7  | 54.2  | 54.2  |
| 32.5° | 824.8  | 650.8 | 198.7 | 65.5  | 57.7  | 53.5  | 52.5  | 52.5  | 51.8  | 51.3  | 51.0  |
| 35°   | 884.8  | 671.0 | 156.7 | 61.4  | 54.2  | 50.0  | 48.6  | 48.6  | 48.1  | 47.7  | 47.4  |
| 37.5° | 967.7  | 701.6 | 121.8 | 57.7  | 50.7  | 46.3  | 44.8  | 44.6  | 43.9  | 43.3  | 43.0  |
| 40°   | 1078.2 | 739.4 | 95.8  | 54.2  | 47.2  | 42.5  | 41.3  | 40.8  | 39.7  | 38.8  | 38.8  |
| 42.5° | 1216.7 | 782.6 | 77.8  | 50.4  | 43.0  | 39.0  | 38.1  | 37.2  | 35.3  | 34.4  | 34.1  |
| 45°   | 1361.8 | 821.3 | 65.8  | 46.0  | 39.0  | 35.5  | 35.0  | 33.6  | 30.9  | 30.0  | 30.0  |
| 47.5° | 1466.4 | 830.3 | 57.9  | 41.9  | 35.3  | 31.8  | 31.4  | 28.9  | 26.6  | 25.9  | 25.6  |
| 50°   | 1531.6 | 812.6 | 51.6  | 37.9  | 31.8  | 28.3  | 27.5  | 24.1  | 22.7  | 22.2  | 21.9  |
| 52.5° | 1575.5 | 780.7 | 46.3  | 34.4  | 28.5  | 25.0  | 23.1  | 20.6  | 19.5  | 18.9  | 18.9  |
| 55°   | 1610.8 | 736.0 | 41.1  | 31.1  | 25.9  | 22.4  | 19.5  | 17.8  | 16.6  | 16.1  | 16.1  |
| 57.5° | 1620.7 | 675.1 | 35.8  | 28.5  | 23.3  | 19.7  | 16.6  | 15.4  | 13.9  | 13.6  | 13.6  |
| 60°   | 1548.7 | 565.3 | 31.8  | 25.3  | 21.0  | 17.2  | 14.5  | 13.1  | 11.7  | 11.4  | 11.0  |
| 62.5° | 1359.1 | 437.5 | 28.0  | 22.4  | 18.3  | 14.9  | 12.6  | 10.8  | 9.7   | 9.7   | 9.7   |
| 65°   | 1036.8 | 293.3 | 24.5  | 19.5  | 16.1  | 12.6  | 10.8  | 8.7   | 8.2   | 8.2   | 8.4   |
| 67.5° | 620.6  | 159.6 | 21.0  | 16.6  | 13.6  | 10.5  | 9.1   | 7.5   | 7.3   | 7.5   | 7.5   |
| 69°   | 363.8  | 93.8  | 18.9  | 14.9  | 11.9  | 9.3   | 7.8   | 6.7   | 7.3   | 7.5   | 7.5   |
| 70°   | 224.5  | 63.2  | 17.5  | 13.4  | 10.8  | 8.4   | 7.3   | 6.4   | 7.0   | 7.3   | 7.3   |
| 72.5° | 62.6   | 32.7  | 13.9  | 10.5  | 8.7   | 7.0   | 5.8   | 5.8   | 6.7   | 7.0   | 7.0   |
| 75°   | 40.8   | 24.1  | 10.8  | 7.8   | 6.7   | 5.6   | 4.9   | 5.6   | 6.4   | 6.7   | 6.7   |
| 77.5° | 33.8   | 19.7  | 8.7   | 6.4   | 5.6   | 5.3   | 4.7   | 4.9   | 5.8   | 6.1   | 6.1   |
| 80°   | 30.9   | 13.9  | 7.0   | 5.8   | 4.9   | 4.7   | 4.4   | 4.1   | 5.3   | 5.6   | 5.6   |
| 82.5° | 29.4   | 11.0  | 6.1   | 5.3   | 4.7   | 4.1   | 3.9   | 4.1   | 4.7   | 4.9   | 5.3   |
| 85°   | 18.3   | 7.3   | 5.6   | 4.9   | 4.1   | 3.9   | 3.9   | 3.9   | 4.4   | 4.7   | 4.7   |
| 87.5° | 6.7    | 5.8   | 4.9   | 4.1   | 3.5   | 3.5   | 3.5   | 3.5   | 3.9   | 4.4   | 4.4   |
| 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)