

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: P192619

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-E1-5WQ-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5129.7 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

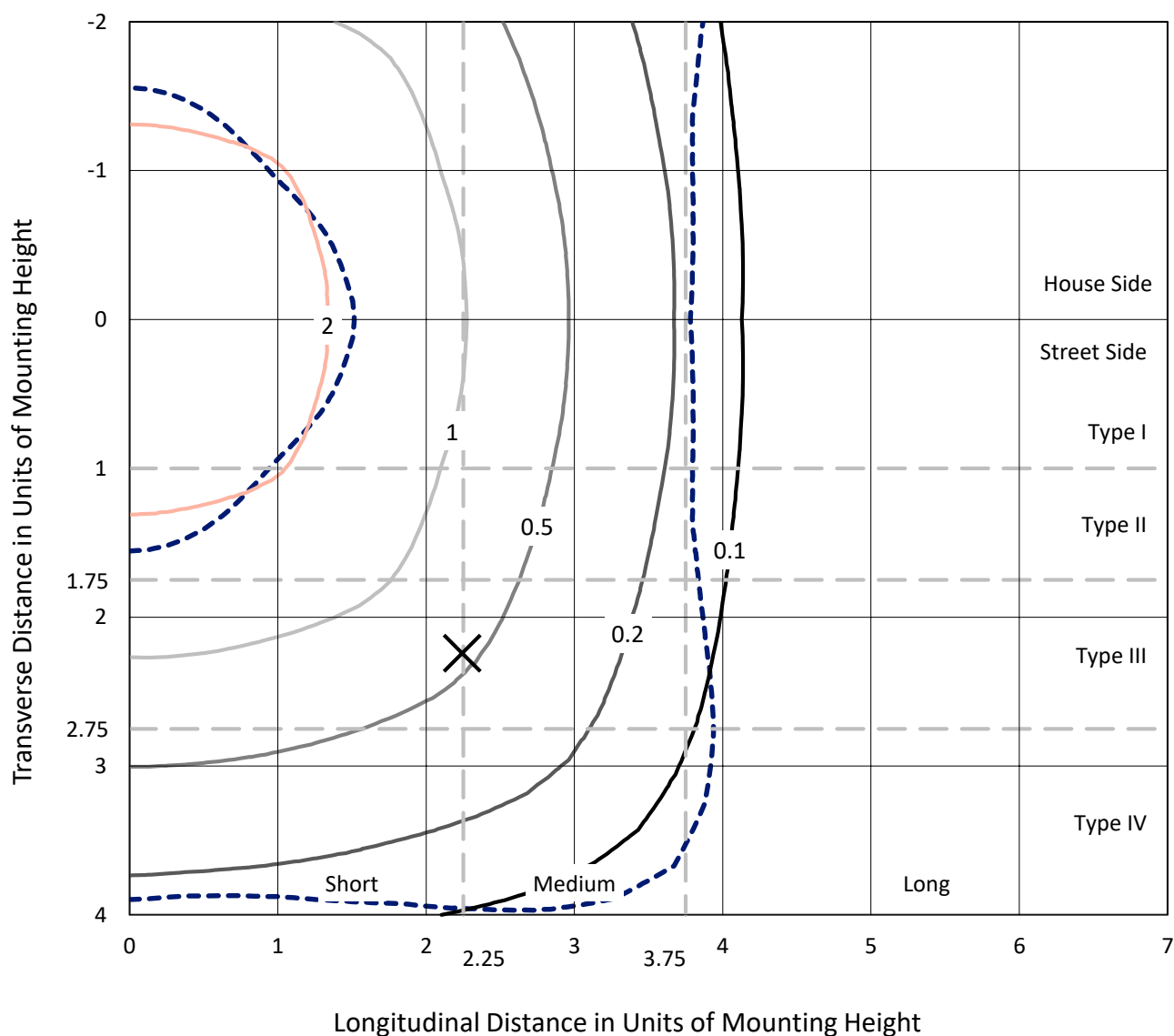


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

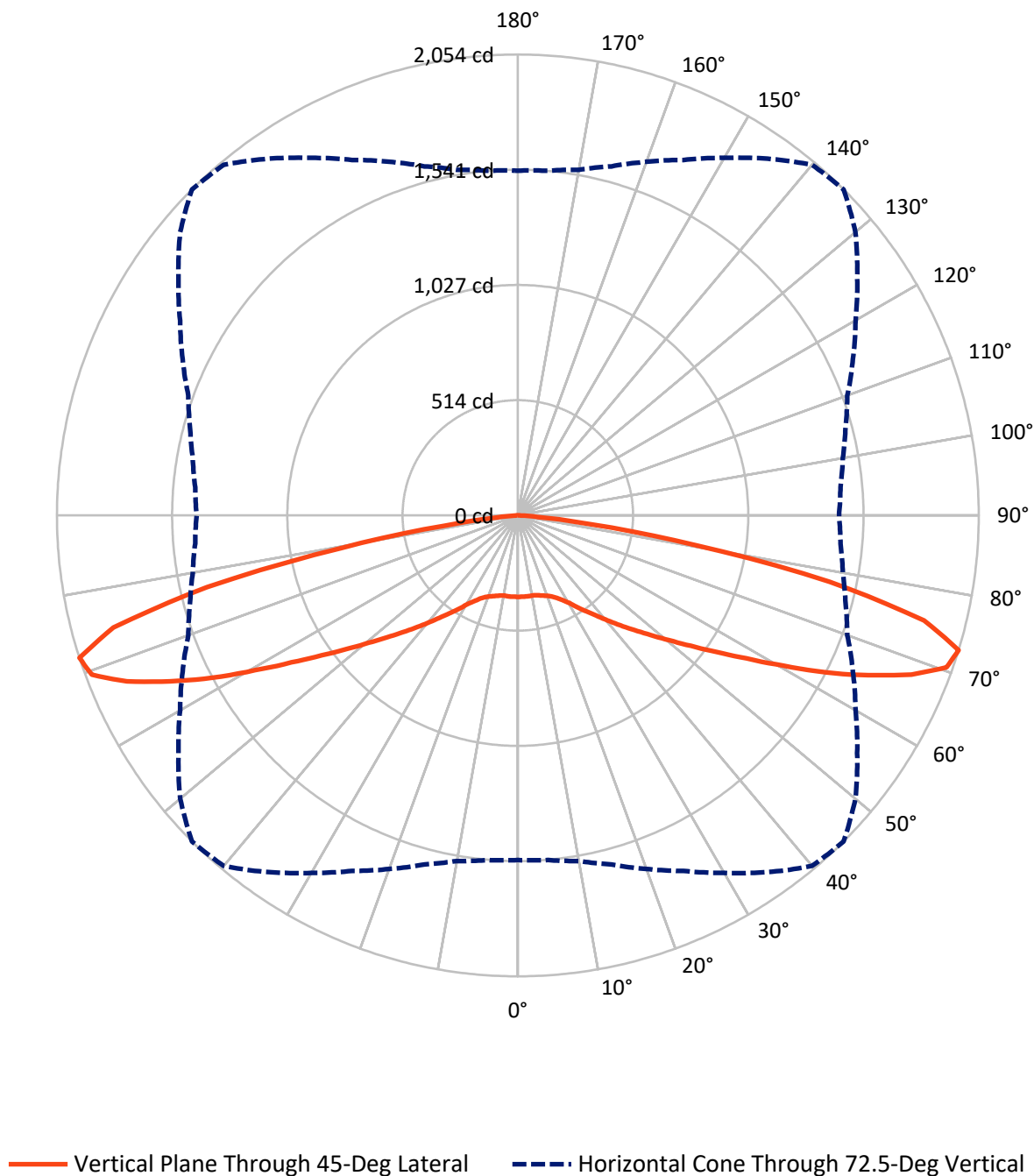


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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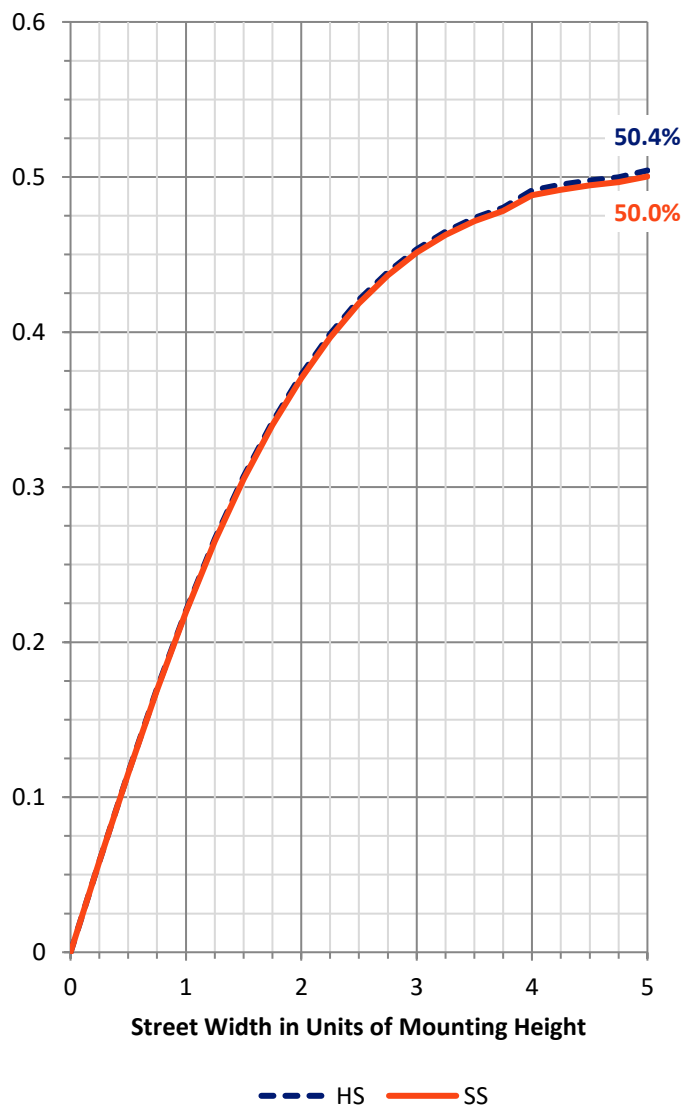
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2564.9   | 0.0    | 2564.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2564.9   | 0.0    | 2564.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5129.7   | 0.0    | 5129.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.7   | 0.7       |
| 10°-20°   | 105.4  | 2.1       |
| 20°-30°   | 192.5  | 3.8       |
| 30°-40°   | 331.9  | 6.5       |
| 40°-50°   | 567.4  | 11.1      |
| 50°-60°   | 919.7  | 17.9      |
| 60°-70°   | 1525.8 | 29.7      |
| 70°-80°   | 1343.9 | 26.2      |
| 80°-90°   | 108.4  | 2.1       |
| 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°    | 5129.7 | 100.0     |
| 0°-180°   | 5129.7 | 100.0     |

**Coefficient of Utilization**



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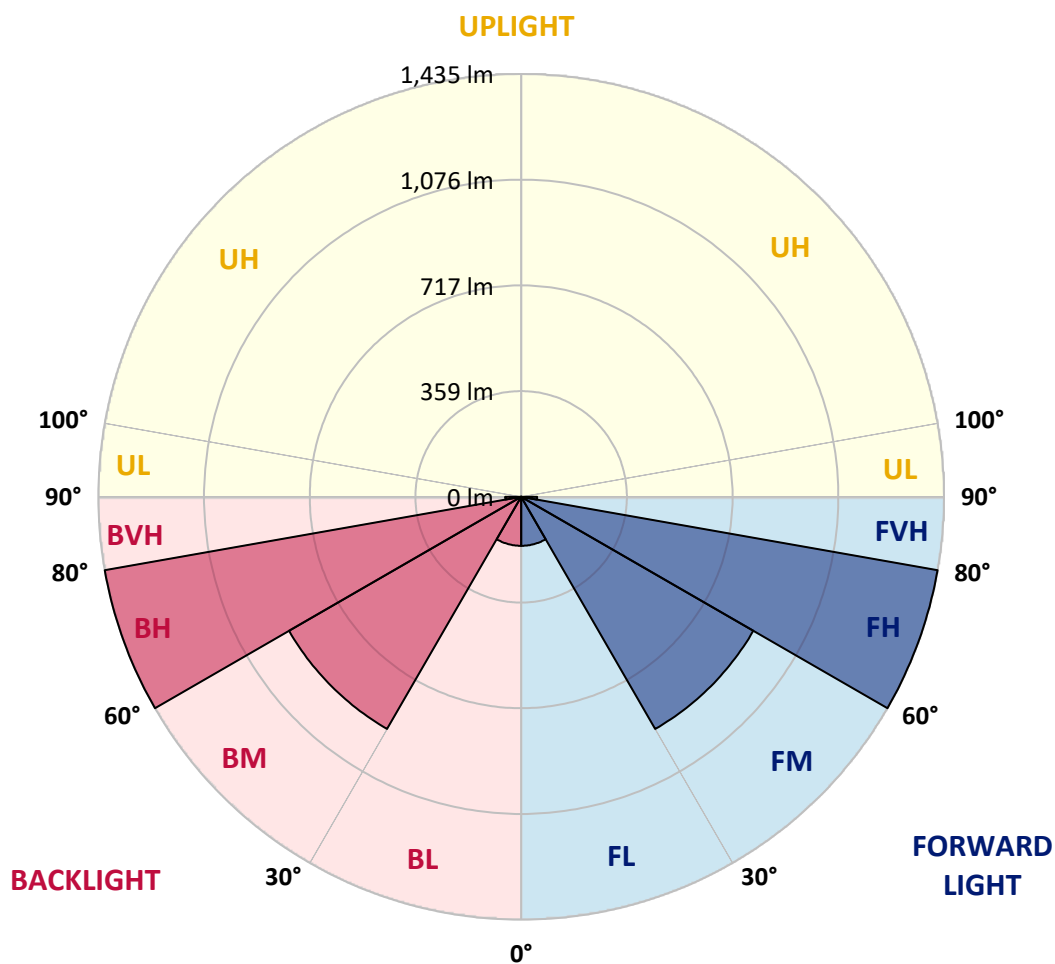
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 166.3  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 909.6  | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 1434.8 | 28.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 54.2   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 166.3  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 909.6  | 17.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1434.8 | 28.0      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 54.2   | 1.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  |
| 2.5°  | 363.3  | 363.5  | 363.8  | 363.5  | 363.5  | 363.3  | 363.1  | 363.3  | 363.1  | 362.5  | 362.7  |
| 5°    | 364.5  | 364.9  | 364.9  | 364.5  | 364.7  | 364.5  | 364.0  | 364.2  | 363.8  | 363.1  | 363.1  |
| 7.5°  | 365.8  | 366.1  | 366.1  | 365.6  | 365.8  | 365.4  | 364.9  | 364.7  | 364.2  | 363.3  | 362.5  |
| 10°   | 367.9  | 368.2  | 367.9  | 367.5  | 367.5  | 366.8  | 365.6  | 365.2  | 364.2  | 362.7  | 362.0  |
| 12.5° | 370.3  | 370.6  | 370.3  | 369.9  | 369.7  | 368.4  | 367.5  | 366.8  | 366.1  | 364.9  | 363.8  |
| 15°   | 373.6  | 374.1  | 373.6  | 372.7  | 371.9  | 371.1  | 370.6  | 370.8  | 371.1  | 370.1  | 368.9  |
| 17.5° | 379.7  | 380.0  | 379.2  | 377.2  | 376.2  | 375.3  | 375.3  | 375.8  | 376.4  | 376.0  | 374.8  |
| 20°   | 391.0  | 390.3  | 388.6  | 386.1  | 384.9  | 383.3  | 383.1  | 383.3  | 383.3  | 383.1  | 382.1  |
| 22.5° | 405.2  | 404.7  | 402.5  | 399.3  | 397.6  | 396.7  | 395.3  | 394.1  | 393.9  | 393.2  | 392.2  |
| 25°   | 422.1  | 421.8  | 419.2  | 416.4  | 415.3  | 414.1  | 412.9  | 411.3  | 409.8  | 408.2  | 407.2  |
| 27.5° | 443.7  | 442.8  | 439.0  | 437.6  | 436.0  | 435.3  | 433.6  | 431.7  | 430.6  | 428.4  | 427.3  |
| 30°   | 467.5  | 467.5  | 464.5  | 464.0  | 464.0  | 462.2  | 460.4  | 457.1  | 455.1  | 452.9  | 452.3  |
| 32.5° | 491.2  | 491.4  | 488.4  | 489.4  | 490.0  | 491.2  | 491.7  | 490.6  | 489.2  | 488.9  | 487.6  |
| 35°   | 525.6  | 524.7  | 521.6  | 522.3  | 522.0  | 521.8  | 521.8  | 524.5  | 524.9  | 525.3  | 522.6  |
| 37.5° | 568.1  | 568.1  | 565.1  | 565.1  | 563.7  | 562.3  | 560.4  | 562.0  | 564.7  | 565.4  | 563.4  |
| 40°   | 616.9  | 618.5  | 614.8  | 614.6  | 615.0  | 610.5  | 608.5  | 611.0  | 612.6  | 615.4  | 613.4  |
| 42.5° | 674.3  | 673.1  | 669.3  | 668.8  | 666.3  | 664.9  | 662.9  | 665.2  | 667.7  | 669.5  | 670.3  |
| 45°   | 729.3  | 728.4  | 724.2  | 724.2  | 721.5  | 720.4  | 721.3  | 724.9  | 726.0  | 728.6  | 731.3  |
| 47.5° | 783.7  | 782.6  | 779.7  | 780.8  | 781.1  | 783.3  | 786.3  | 789.6  | 792.9  | 796.4  | 797.6  |
| 50°   | 839.2  | 839.4  | 836.4  | 839.2  | 842.7  | 848.6  | 856.9  | 862.3  | 869.1  | 873.5  | 874.9  |
| 52.5° | 889.8  | 890.8  | 894.1  | 900.7  | 907.7  | 919.2  | 933.3  | 946.5  | 957.7  | 965.3  | 964.9  |
| 55°   | 950.5  | 951.8  | 960.0  | 971.2  | 982.8  | 1000.2 | 1021.1 | 1044.4 | 1063.2 | 1074.0 | 1067.3 |
| 57.5° | 1028.1 | 1031.2 | 1040.1 | 1055.5 | 1072.6 | 1095.3 | 1124.0 | 1158.9 | 1188.0 | 1202.7 | 1191.7 |
| 60°   | 1134.7 | 1136.7 | 1147.4 | 1164.3 | 1185.0 | 1213.1 | 1251.4 | 1298.4 | 1339.6 | 1358.9 | 1346.3 |
| 62.5° | 1275.2 | 1278.8 | 1287.4 | 1304.5 | 1325.8 | 1357.5 | 1404.3 | 1463.2 | 1514.5 | 1541.3 | 1512.5 |
| 65°   | 1443.0 | 1454.2 | 1461.6 | 1479.0 | 1498.7 | 1532.4 | 1581.3 | 1644.4 | 1699.4 | 1717.0 | 1683.9 |
| 67.5° | 1609.1 | 1618.9 | 1631.7 | 1651.7 | 1671.6 | 1709.5 | 1754.9 | 1816.1 | 1876.5 | 1892.6 | 1841.0 |
| 70°   | 1681.7 | 1687.4 | 1707.1 | 1734.5 | 1772.8 | 1817.5 | 1870.0 | 1938.7 | 2013.4 | 2026.6 | 1961.2 |
| 72.5° | 1536.0 | 1541.7 | 1563.8 | 1610.3 | 1677.0 | 1748.0 | 1839.6 | 1940.6 | 2039.4 | 2054.2 | 1964.1 |
| 75°   | 1161.8 | 1152.5 | 1185.4 | 1246.7 | 1336.8 | 1435.8 | 1563.8 | 1708.6 | 1851.4 | 1870.0 | 1762.5 |
| 77.5° | 600.4  | 599.3  | 624.0  | 700.2  | 807.7  | 920.4  | 1061.4 | 1224.8 | 1364.5 | 1421.0 | 1333.5 |
| 80°   | 169.2  | 171.0  | 182.8  | 220.7  | 283.5  | 364.9  | 475.1  | 628.1  | 742.5  | 800.9  | 751.9  |
| 82.5° | 66.3   | 71.6   | 76.1   | 83.0   | 91.3   | 103.2  | 137.8  | 205.2  | 275.3  | 328.9  | 269.5  |
| 85°   | 23.7   | 25.4   | 35.9   | 42.6   | 43.2   | 45.7   | 52.0   | 60.7   | 73.2   | 87.3   | 71.8   |
| 87.5° | 9.0    | 9.9    | 11.6   | 19.0   | 18.8   | 17.2   | 21.0   | 21.9   | 16.5   | 15.1   | 18.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  | 363.3  |
| 2.5°  | 362.3  | 362.5  | 362.5  | 362.7  | 363.1  | 363.1  | 363.5  | 363.5  |
| 5°    | 362.5  | 362.5  | 362.0  | 362.3  | 362.0  | 362.0  | 362.3  | 362.3  |
| 7.5°  | 362.0  | 361.8  | 361.4  | 361.1  | 360.7  | 360.7  | 360.7  | 360.7  |
| 10°   | 361.4  | 361.1  | 360.7  | 360.4  | 360.2  | 360.2  | 360.2  | 360.2  |
| 12.5° | 363.3  | 362.5  | 362.0  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  |
| 15°   | 368.2  | 366.6  | 365.4  | 365.4  | 365.6  | 366.1  | 366.1  | 366.6  |
| 17.5° | 374.3  | 372.5  | 371.3  | 370.3  | 370.8  | 371.5  | 371.9  | 372.5  |
| 20°   | 381.7  | 380.7  | 379.0  | 378.0  | 378.0  | 379.0  | 379.4  | 379.7  |
| 22.5° | 391.7  | 391.0  | 390.3  | 389.2  | 389.2  | 389.6  | 390.6  | 390.6  |
| 25°   | 406.8  | 406.3  | 405.9  | 405.0  | 404.7  | 404.7  | 405.2  | 405.6  |
| 27.5° | 425.6  | 425.9  | 425.3  | 425.1  | 424.5  | 424.3  | 424.9  | 424.7  |
| 30°   | 450.8  | 452.0  | 453.1  | 452.3  | 451.0  | 450.3  | 449.6  | 448.6  |
| 32.5° | 484.9  | 483.5  | 482.6  | 480.8  | 478.8  | 476.9  | 475.5  | 473.8  |
| 35°   | 517.2  | 514.8  | 513.8  | 515.2  | 515.0  | 513.8  | 512.2  | 510.8  |
| 37.5° | 556.6  | 556.2  | 556.6  | 559.3  | 558.8  | 560.0  | 556.6  | 556.4  |
| 40°   | 606.5  | 607.1  | 610.3  | 613.4  | 615.0  | 616.7  | 614.8  | 613.0  |
| 42.5° | 664.4  | 664.2  | 665.4  | 669.5  | 672.4  | 674.3  | 670.3  | 669.9  |
| 45°   | 725.6  | 724.0  | 724.9  | 728.4  | 731.3  | 733.3  | 728.9  | 728.9  |
| 47.5° | 792.9  | 790.1  | 787.0  | 791.0  | 792.6  | 794.1  | 790.5  | 789.4  |
| 50°   | 867.9  | 862.0  | 855.5  | 857.1  | 857.1  | 856.6  | 852.1  | 851.9  |
| 52.5° | 954.1  | 943.2  | 931.2  | 926.7  | 924.2  | 921.4  | 913.6  | 909.8  |
| 55°   | 1053.0 | 1036.9 | 1018.1 | 1006.5 | 1000.4 | 992.6  | 979.7  | 976.1  |
| 57.5° | 1168.8 | 1143.4 | 1110.9 | 1096.9 | 1083.2 | 1070.5 | 1056.1 | 1052.1 |
| 60°   | 1305.9 | 1268.6 | 1225.6 | 1199.4 | 1184.6 | 1172.4 | 1157.6 | 1156.8 |
| 62.5° | 1458.9 | 1399.8 | 1351.2 | 1327.6 | 1316.8 | 1305.9 | 1291.9 | 1293.7 |
| 65°   | 1614.5 | 1552.8 | 1507.1 | 1488.1 | 1478.0 | 1469.1 | 1454.9 | 1457.1 |
| 67.5° | 1767.9 | 1711.1 | 1661.1 | 1641.5 | 1630.2 | 1618.9 | 1606.2 | 1608.3 |
| 70°   | 1877.9 | 1807.5 | 1751.1 | 1707.8 | 1680.9 | 1650.3 | 1630.4 | 1625.6 |
| 72.5° | 1846.5 | 1738.0 | 1648.2 | 1562.4 | 1512.1 | 1471.1 | 1443.5 | 1431.4 |
| 75°   | 1598.0 | 1449.8 | 1334.5 | 1229.0 | 1169.8 | 1121.5 | 1086.5 | 1064.6 |
| 77.5° | 1186.8 | 1020.2 | 883.9  | 762.5  | 666.5  | 602.0  | 556.6  | 527.2  |
| 80°   | 649.5  | 494.1  | 361.1  | 253.8  | 186.7  | 155.0  | 136.9  | 128.3  |
| 82.5° | 202.3  | 130.6  | 96.2   | 83.0   | 77.1   | 73.9   | 68.5   | 59.8   |
| 85°   | 64.5   | 56.5   | 52.5   | 50.1   | 47.7   | 41.6   | 28.7   | 26.1   |
| 87.5° | 24.9   | 25.6   | 25.4   | 24.0   | 24.5   | 17.7   | 14.1   | 12.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)