

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: P198004

Luminaire Tested: **TT-C4-LED-E1-RW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34691)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-C4-LED-E1-RW-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
RECTANGULAR DISTRIBUTION  
Light Source: (160) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5917.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 58  
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

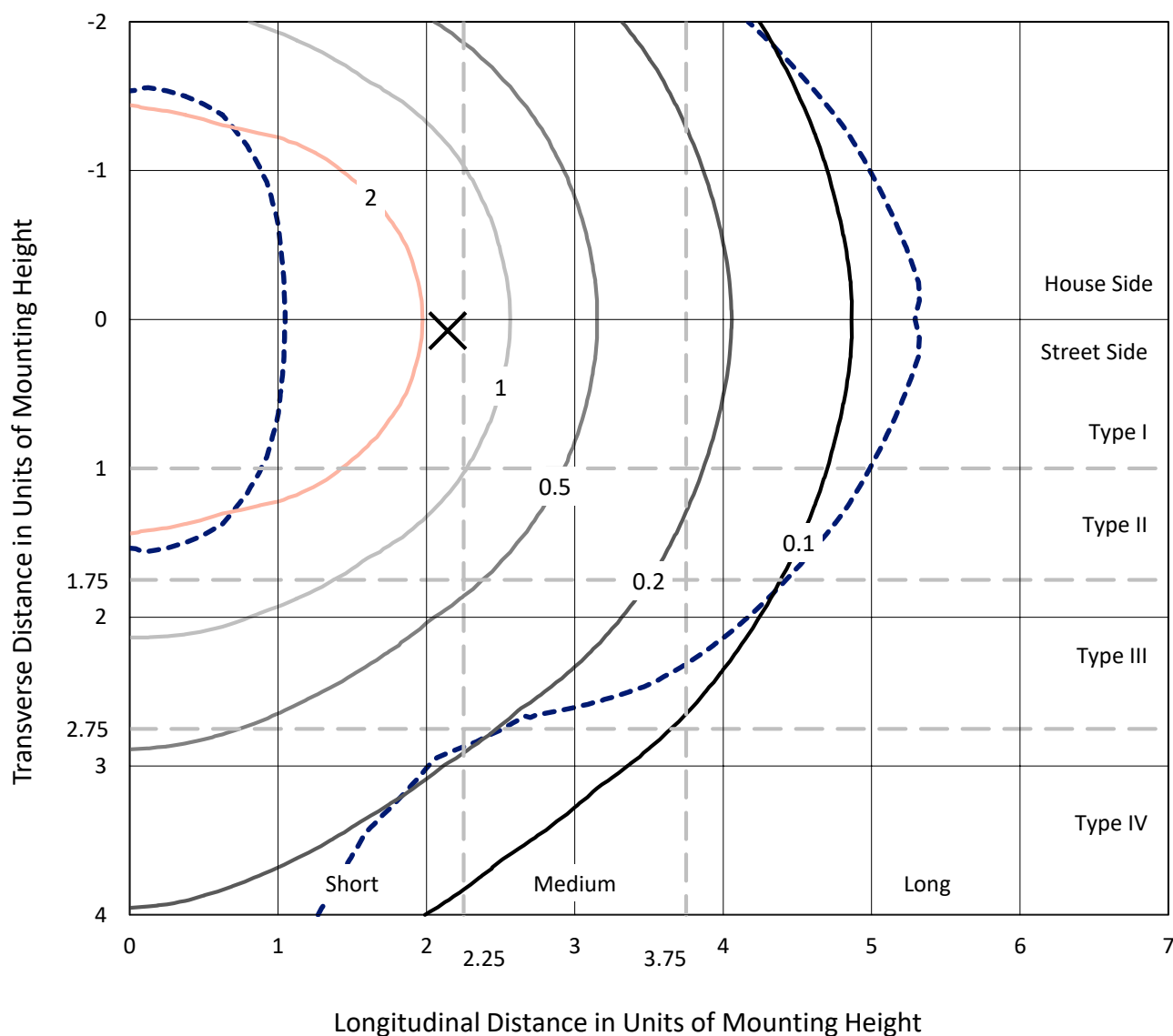


REPORT NUMBER: P198004

CATALOG NUMBER: TT-C4-LED-E1-RW-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

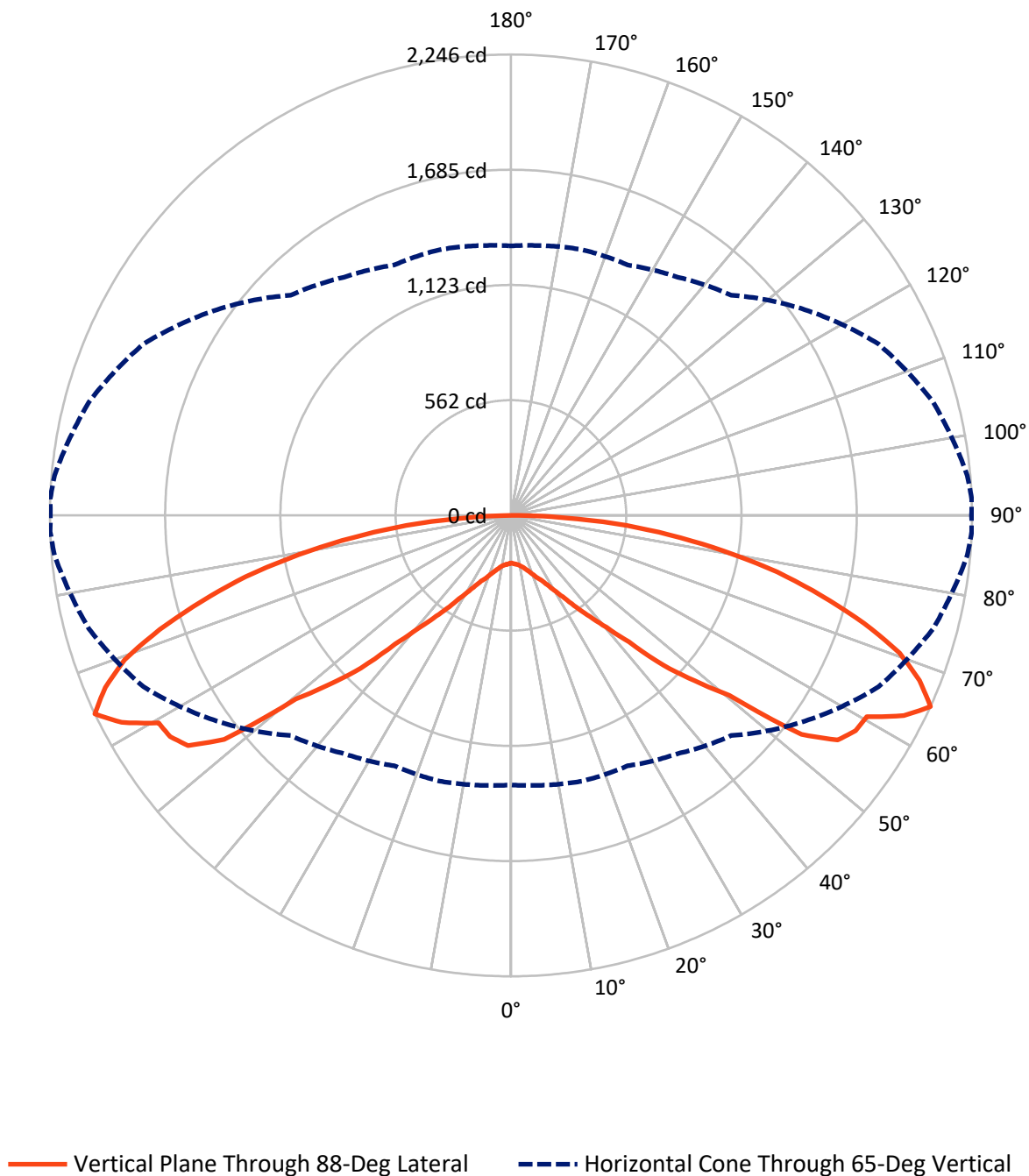


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198004

CATALOG NUMBER: TT-C4-LED-E1-RW-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P198004

CATALOG NUMBER: TT-C4-LED-E1-RW-7060

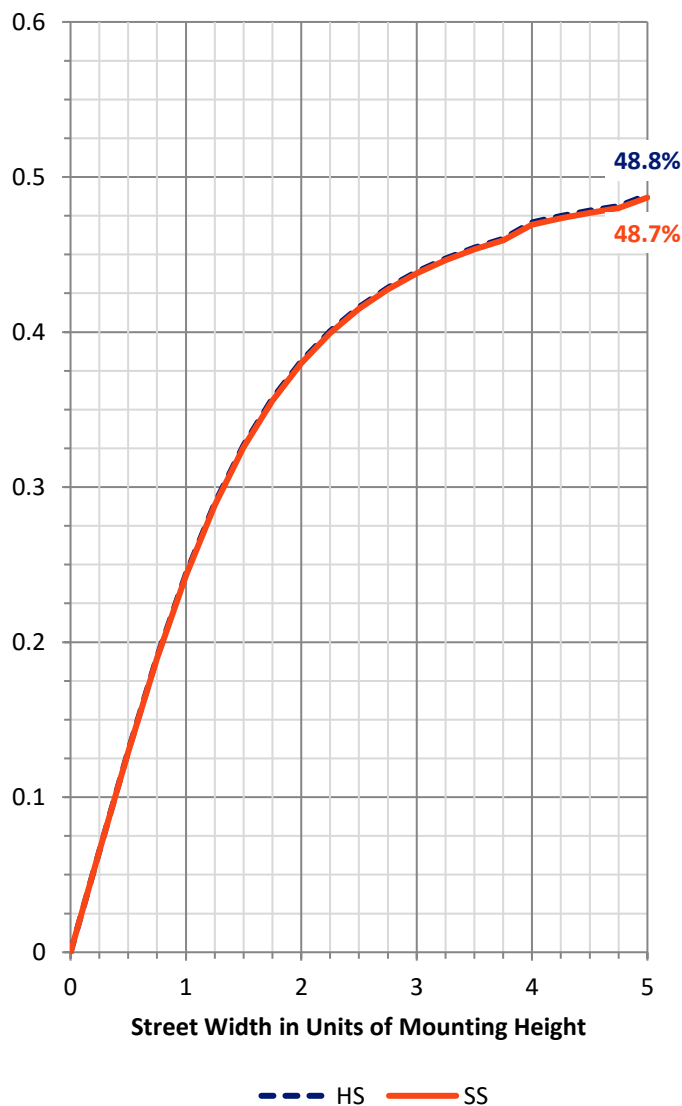
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2958.7   | 0.0    | 2958.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2958.7   | 0.0    | 2958.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5917.4   | 0.0    | 5917.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.2   | 0.4       |
| 10°-20°   | 80.6   | 1.4       |
| 20°-30°   | 178.0  | 3.0       |
| 30°-40°   | 354.6  | 6.0       |
| 40°-50°   | 678.8  | 11.5      |
| 50°-60°   | 1215.0 | 20.5      |
| 60°-70°   | 1610.1 | 27.2      |
| 70°-80°   | 1343.6 | 22.7      |
| 80°-90°   | 433.5  | 7.3       |
| 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°    | 5917.4 | 100.0     |
| 0°-180°   | 5917.4 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P198004

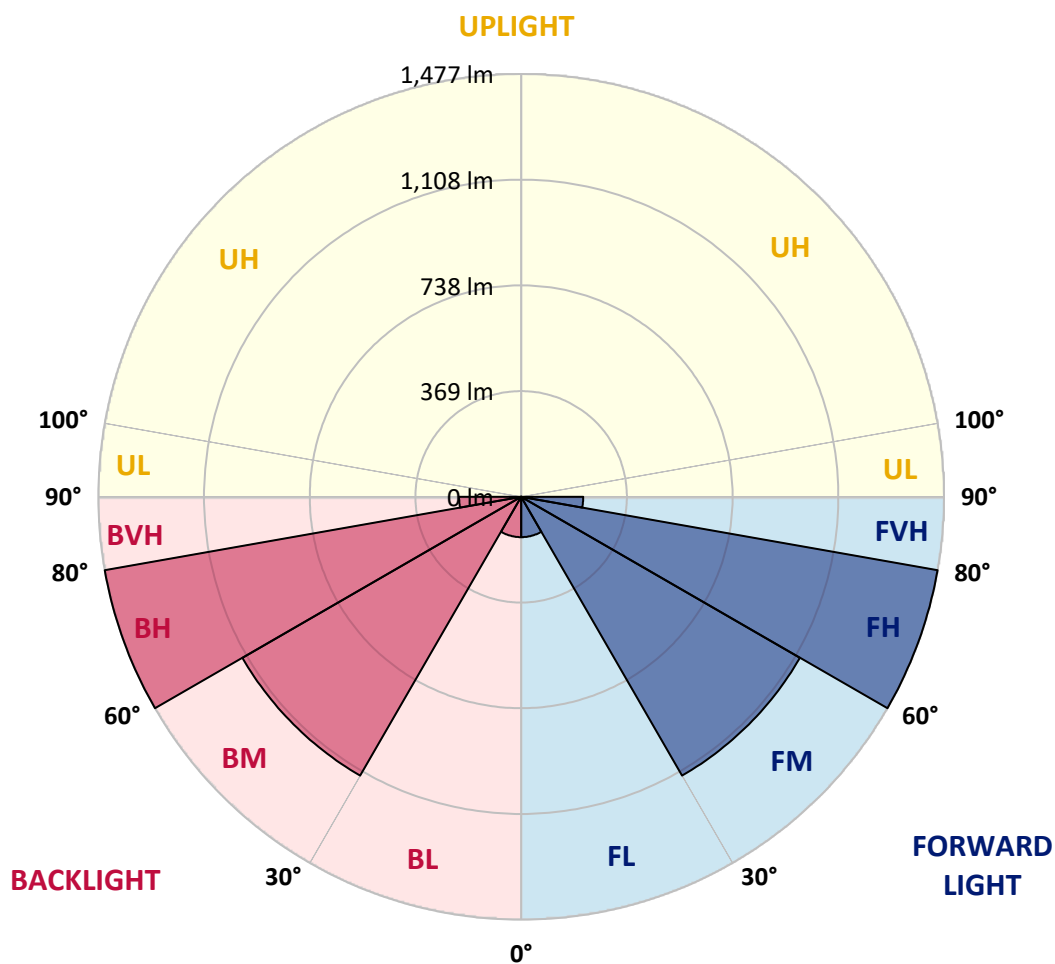
CATALOG NUMBER: TT-C4-LED-E1-RW-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 140.9  | 2.4       |                         |      |         |
| FM   | (30°-60°)   | 1124.2 | 19.0      |                         |      |         |
| FH   | (60°-80°)   | 1476.8 | 25.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 216.8  | 3.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 140.9  | 2.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1124.2 | 19.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1476.8 | 25.0      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 216.8  | 3.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short



REPORT NUMBER: P198004

CATALOG NUMBER: TT-C4-LED-E1-RW-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 88°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  |
| 2.5°  | 234.0  | 234.0  | 234.0  | 234.0  | 235.2  | 235.2  | 235.2  | 235.2  | 235.2  | 235.2  | 235.2  |
| 5°    | 237.5  | 237.5  | 238.7  | 238.7  | 239.9  | 239.9  | 239.9  | 239.9  | 238.7  | 238.7  | 238.7  |
| 7.5°  | 243.3  | 244.5  | 245.7  | 245.7  | 245.7  | 244.5  | 243.3  | 243.3  | 242.2  | 242.2  | 242.2  |
| 10°   | 253.8  | 253.8  | 255.0  | 255.0  | 253.8  | 252.7  | 251.5  | 250.3  | 250.3  | 250.3  | 249.2  |
| 12.5° | 266.6  | 266.6  | 267.8  | 266.6  | 264.3  | 263.1  | 260.8  | 259.6  | 259.6  | 258.5  | 258.5  |
| 15°   | 284.1  | 286.4  | 286.4  | 282.9  | 279.4  | 276.0  | 274.8  | 272.5  | 272.5  | 272.5  | 272.5  |
| 17.5° | 310.9  | 309.7  | 305.1  | 301.6  | 299.2  | 293.4  | 291.1  | 289.9  | 287.6  | 287.6  | 287.6  |
| 20°   | 341.2  | 338.8  | 333.0  | 328.3  | 323.7  | 316.7  | 312.0  | 309.7  | 308.6  | 307.4  | 307.4  |
| 22.5° | 374.9  | 371.4  | 363.3  | 359.8  | 350.5  | 343.5  | 337.7  | 333.0  | 329.5  | 328.3  | 330.7  |
| 25°   | 409.9  | 409.9  | 402.9  | 393.5  | 384.2  | 373.8  | 365.6  | 359.8  | 355.1  | 354.0  | 352.8  |
| 27.5° | 447.1  | 449.4  | 440.1  | 430.8  | 420.3  | 406.4  | 398.2  | 390.1  | 388.9  | 387.7  | 386.6  |
| 30°   | 486.7  | 491.4  | 482.0  | 472.7  | 458.8  | 444.8  | 434.3  | 430.8  | 427.3  | 429.6  | 429.6  |
| 32.5° | 535.6  | 537.9  | 527.4  | 520.5  | 501.8  | 487.9  | 478.5  | 476.2  | 477.4  | 476.2  | 479.7  |
| 35°   | 592.7  | 589.2  | 581.0  | 567.0  | 550.7  | 537.9  | 530.9  | 535.6  | 548.4  | 553.1  | 550.7  |
| 37.5° | 655.5  | 642.7  | 638.1  | 620.6  | 605.5  | 595.0  | 597.3  | 609.0  | 619.4  | 627.6  | 625.3  |
| 40°   | 702.1  | 704.4  | 691.6  | 675.3  | 661.3  | 659.0  | 671.8  | 687.0  | 706.8  | 713.7  | 716.1  |
| 42.5° | 749.8  | 763.8  | 748.7  | 732.4  | 725.4  | 730.0  | 748.7  | 778.9  | 823.2  | 846.5  | 843.0  |
| 45°   | 804.6  | 819.7  | 803.4  | 790.6  | 789.4  | 806.9  | 847.6  | 926.8  | 992.0  | 1038.6 | 1043.3 |
| 47.5° | 861.6  | 873.3  | 858.1  | 850.0  | 861.6  | 895.4  | 965.2  | 1071.2 | 1141.1 | 1195.8 | 1205.1 |
| 50°   | 933.8  | 929.1  | 917.5  | 916.3  | 942.0  | 1003.7 | 1098.0 | 1205.1 | 1330.8 | 1366.9 | 1378.6 |
| 52.5° | 1004.8 | 987.4  | 985.0  | 990.9  | 1036.3 | 1106.1 | 1231.9 | 1442.6 | 1627.8 | 1758.2 | 1772.1 |
| 55°   | 1071.2 | 1051.4 | 1056.1 | 1071.2 | 1135.2 | 1241.2 | 1415.8 | 1673.2 | 1835.0 | 1927.0 | 1931.7 |
| 57.5° | 1131.7 | 1120.1 | 1130.6 | 1151.5 | 1247.0 | 1383.2 | 1568.4 | 1780.3 | 1902.5 | 1967.7 | 1979.4 |
| 60°   | 1193.5 | 1191.1 | 1203.9 | 1242.4 | 1344.8 | 1465.9 | 1620.8 | 1808.2 | 1930.5 | 1980.6 | 1992.2 |
| 62.5° | 1251.7 | 1259.8 | 1276.1 | 1313.4 | 1392.6 | 1486.9 | 1637.1 | 1866.4 | 2049.3 | 2128.4 | 2148.2 |
| 65°   | 1313.4 | 1320.4 | 1340.2 | 1346.0 | 1417.0 | 1517.1 | 1747.7 | 1975.9 | 2129.6 | 2232.1 | 2246.0 |
| 67.5° | 1369.3 | 1378.6 | 1371.6 | 1366.9 | 1428.7 | 1517.1 | 1725.6 | 1925.8 | 2053.9 | 2131.9 | 2147.1 |
| 70°   | 1422.8 | 1412.4 | 1384.4 | 1348.3 | 1365.8 | 1426.3 | 1617.3 | 1790.8 | 1920.0 | 1993.4 | 2008.5 |
| 72.5° | 1436.8 | 1422.8 | 1348.3 | 1265.6 | 1240.0 | 1285.4 | 1461.3 | 1614.9 | 1720.9 | 1789.6 | 1798.9 |
| 75°   | 1400.7 | 1371.6 | 1245.9 | 1131.7 | 1082.8 | 1128.3 | 1275.0 | 1406.5 | 1481.0 | 1555.6 | 1561.4 |
| 77.5° | 1256.3 | 1237.7 | 1098.0 | 959.4  | 904.7  | 938.5  | 1060.7 | 1153.9 | 1240.0 | 1312.2 | 1326.2 |
| 80°   | 1031.6 | 1015.3 | 891.9  | 778.9  | 705.6  | 728.9  | 818.5  | 893.1  | 975.7  | 1032.8 | 1050.2 |
| 82.5° | 759.2  | 756.8  | 668.3  | 562.4  | 511.1  | 508.8  | 576.4  | 649.7  | 712.6  | 767.3  | 778.9  |
| 85°   | 477.4  | 477.4  | 416.8  | 352.8  | 299.2  | 300.4  | 341.2  | 394.7  | 473.9  | 508.8  | 512.3  |
| 87.5° | 161.8  | 153.7  | 143.2  | 116.4  | 93.1   | 83.8   | 89.7   | 102.5  | 156.0  | 193.3  | 200.3  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P198004

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    |
|-------|--------|
| 0°    | 231.7  |
| 2.5°  | 235.2  |
| 5°    | 238.7  |
| 7.5°  | 242.2  |
| 10°   | 249.2  |
| 12.5° | 259.6  |
| 15°   | 271.3  |
| 17.5° | 287.6  |
| 20°   | 307.4  |
| 22.5° | 329.5  |
| 25°   | 352.8  |
| 27.5° | 387.7  |
| 30°   | 428.5  |
| 32.5° | 478.5  |
| 35°   | 551.9  |
| 37.5° | 627.6  |
| 40°   | 721.9  |
| 42.5° | 852.3  |
| 45°   | 1031.6 |
| 47.5° | 1205.1 |
| 50°   | 1365.8 |
| 52.5° | 1743.0 |
| 55°   | 1936.3 |
| 57.5° | 1978.2 |
| 60°   | 1988.7 |
| 62.5° | 2137.7 |
| 65°   | 2243.7 |
| 67.5° | 2145.9 |
| 70°   | 2005.0 |
| 72.5° | 1791.9 |
| 75°   | 1570.7 |
| 77.5° | 1326.2 |
| 80°   | 1036.3 |
| 82.5° | 778.9  |
| 85°   | 504.2  |
| 87.5° | 194.4  |
| 90°   | 0.0    |

(END OF REPORT)