

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: P197603

Luminaire Tested: **TT-C6-LED-E1-MQ-LWR-LW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C6-LED-E1-MQ-LWR-LW-7050  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (160) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10818.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 108  
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



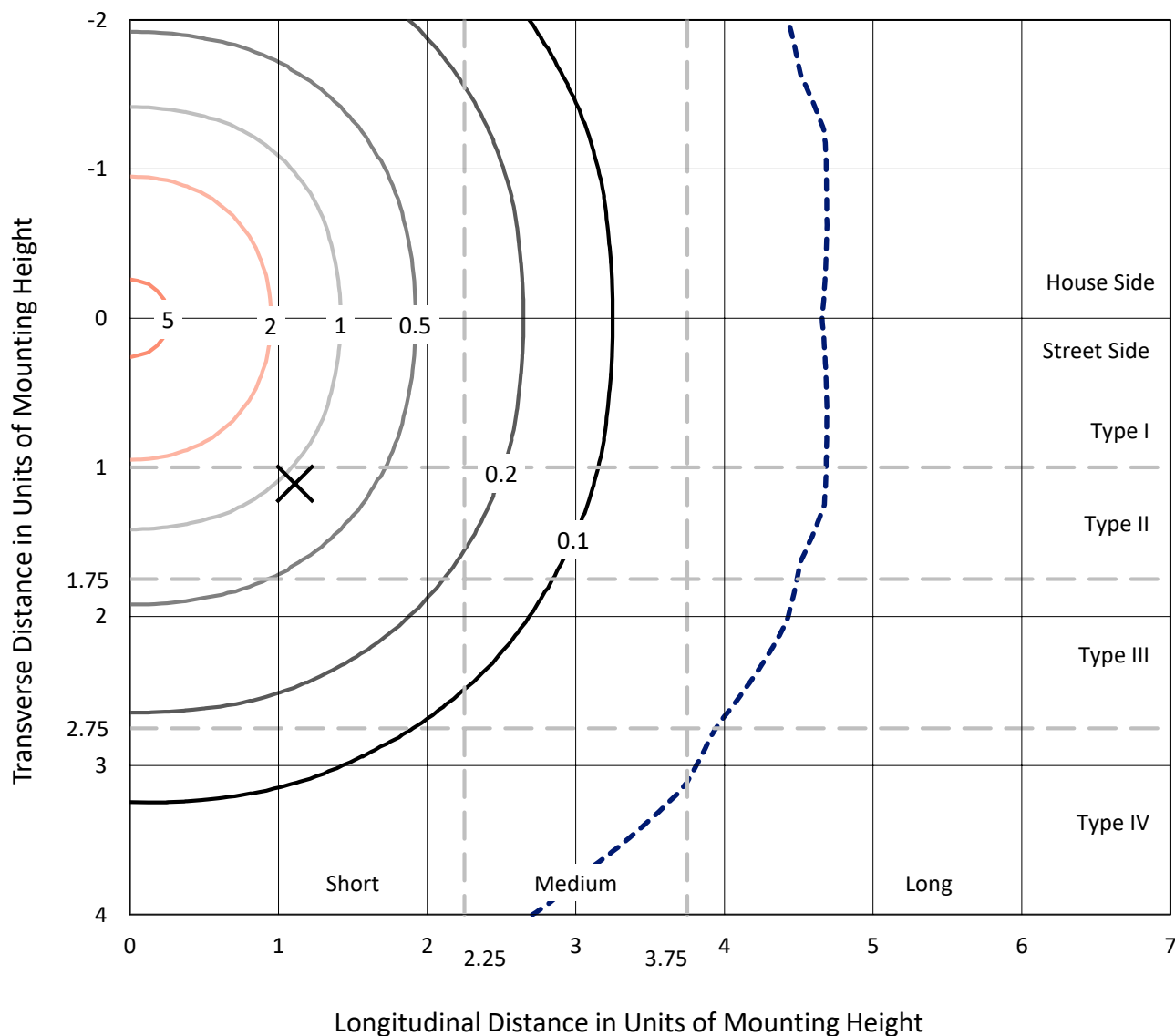
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

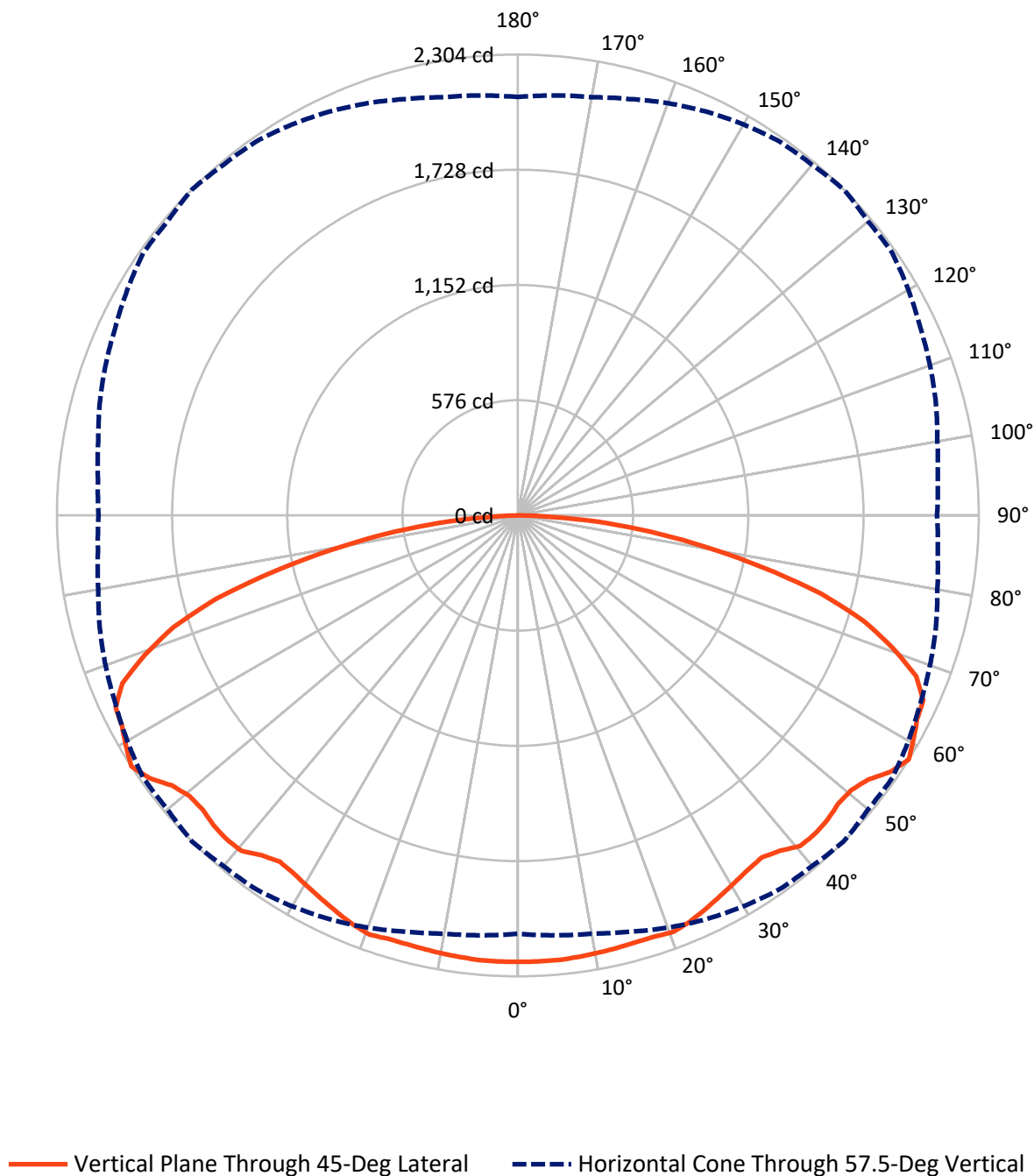


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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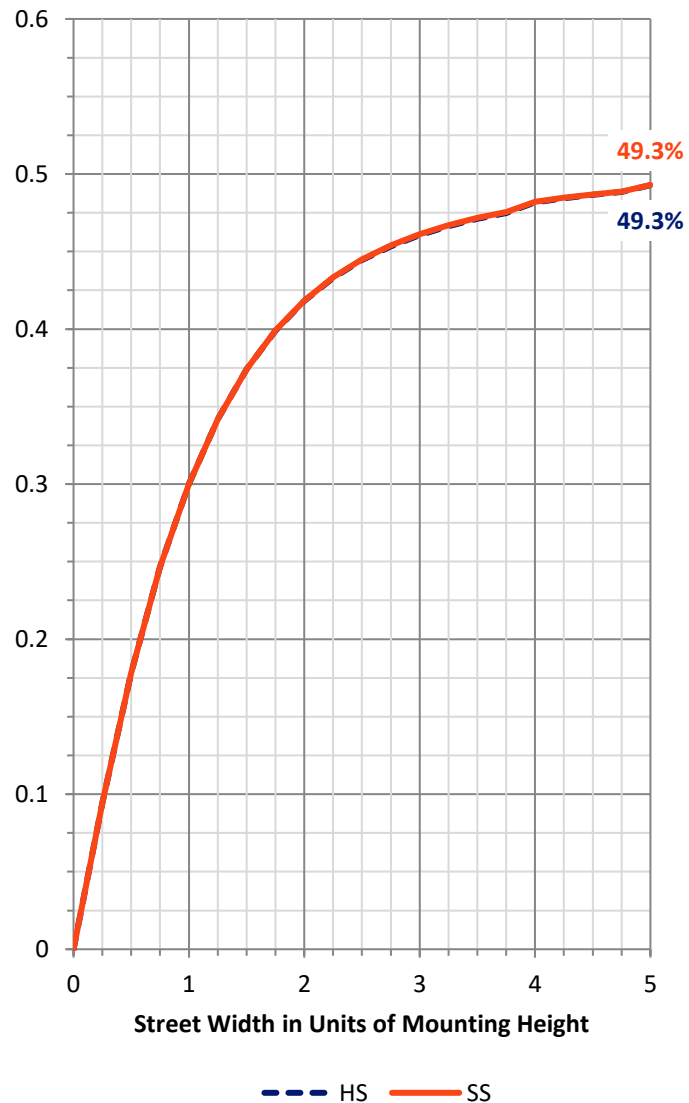
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5409.1   | 0.0    | 5409.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5409.1   | 0.0    | 5409.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10818.2  | 0.0    | 10818.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 212.6   | 2.0       |
| 10°-20°   | 627.2   | 5.8       |
| 20°-30°   | 1004.6  | 9.3       |
| 30°-40°   | 1322.5  | 12.2      |
| 40°-50°   | 1647.2  | 15.2      |
| 50°-60°   | 1940.3  | 17.9      |
| 60°-70°   | 2062.8  | 19.1      |
| 70°-80°   | 1546.9  | 14.3      |
| 80°-90°   | 454.2   | 4.2       |
| 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°    | 10818.2 | 100.0     |
| 0°-180°   | 10818.2 | 100.0     |

**Coefficient of Utilization**



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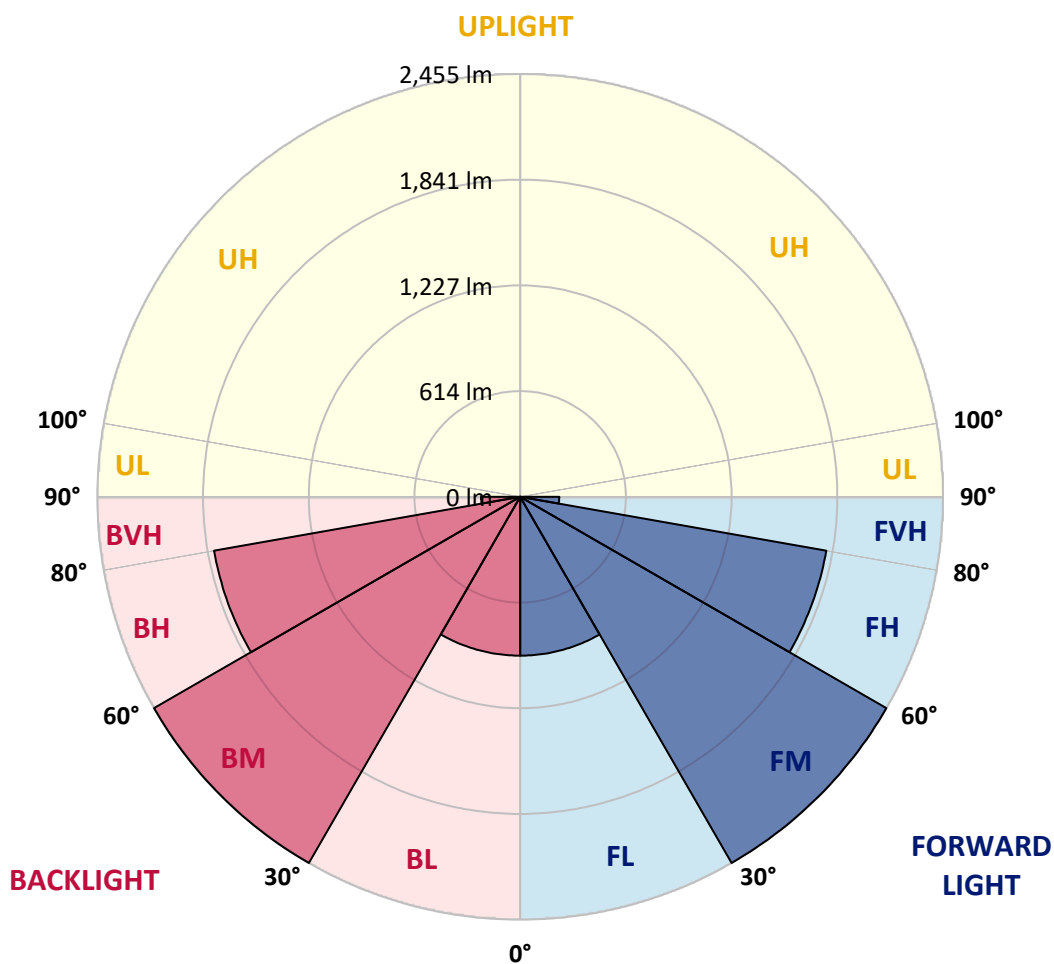
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 922.2  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 2455.0 | 22.7      |                         |      |         |
| FH   | (60°-80°)   | 1804.8 | 16.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 227.1  | 2.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 922.2  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2455.0 | 22.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1804.8 | 16.7      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 227.1  | 2.1       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 |
| 2.5°  | 2229.3 | 2229.3 | 2229.3 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 |
| 5°    | 2229.3 | 2229.3 | 2229.3 | 2229.3 | 2229.3 | 2229.3 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 |
| 7.5°  | 2224.7 | 2224.7 | 2224.7 | 2224.7 | 2224.7 | 2227.0 | 2227.0 | 2227.0 | 2227.0 | 2227.0 | 2227.0 |
| 10°   | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2222.5 | 2222.5 | 2222.5 | 2222.5 | 2222.5 | 2222.5 | 2222.5 |
| 12.5° | 2215.7 | 2215.7 | 2213.4 | 2215.7 | 2215.7 | 2215.7 | 2217.9 | 2217.9 | 2217.9 | 2217.9 | 2217.9 |
| 15°   | 2206.6 | 2206.6 | 2208.9 | 2208.9 | 2211.1 | 2211.1 | 2211.1 | 2211.1 | 2213.4 | 2213.4 | 2213.4 |
| 17.5° | 2202.1 | 2202.1 | 2204.3 | 2206.6 | 2206.6 | 2208.9 | 2211.1 | 2211.1 | 2213.4 | 2213.4 | 2213.4 |
| 20°   | 2208.9 | 2208.9 | 2208.9 | 2211.1 | 2213.4 | 2215.7 | 2217.9 | 2220.2 | 2220.2 | 2222.5 | 2220.2 |
| 22.5° | 2195.3 | 2195.3 | 2195.3 | 2197.5 | 2197.5 | 2197.5 | 2199.8 | 2202.1 | 2202.1 | 2204.3 | 2202.1 |
| 25°   | 2170.3 | 2170.3 | 2172.6 | 2172.6 | 2174.9 | 2174.9 | 2177.1 | 2177.1 | 2177.1 | 2179.4 | 2179.4 |
| 27.5° | 2145.4 | 2143.2 | 2147.7 | 2147.7 | 2150.0 | 2150.0 | 2152.2 | 2154.5 | 2154.5 | 2154.5 | 2156.8 |
| 30°   | 2118.2 | 2118.2 | 2120.5 | 2120.5 | 2122.8 | 2125.0 | 2127.3 | 2129.6 | 2129.6 | 2131.8 | 2131.8 |
| 32.5° | 2088.8 | 2091.1 | 2093.3 | 2095.6 | 2097.9 | 2102.4 | 2104.6 | 2106.9 | 2109.2 | 2111.4 | 2109.2 |
| 35°   | 2068.4 | 2070.7 | 2072.9 | 2077.5 | 2084.3 | 2088.8 | 2093.3 | 2097.9 | 2100.1 | 2100.1 | 2100.1 |
| 37.5° | 2072.9 | 2075.2 | 2079.7 | 2088.8 | 2100.1 | 2106.9 | 2116.0 | 2122.8 | 2125.0 | 2127.3 | 2127.3 |
| 40°   | 2097.9 | 2102.4 | 2109.2 | 2120.5 | 2134.1 | 2145.4 | 2159.0 | 2165.8 | 2170.3 | 2172.6 | 2170.3 |
| 42.5° | 2095.6 | 2102.4 | 2109.2 | 2122.8 | 2138.6 | 2150.0 | 2163.6 | 2170.3 | 2174.9 | 2177.1 | 2174.9 |
| 45°   | 2088.8 | 2093.3 | 2100.1 | 2113.7 | 2125.0 | 2140.9 | 2154.5 | 2161.3 | 2168.1 | 2170.3 | 2168.1 |
| 47.5° | 2072.9 | 2072.9 | 2075.2 | 2088.8 | 2104.6 | 2125.0 | 2136.4 | 2147.7 | 2154.5 | 2154.5 | 2154.5 |
| 50°   | 2052.5 | 2061.6 | 2066.1 | 2084.3 | 2100.1 | 2118.2 | 2138.6 | 2154.5 | 2156.8 | 2159.0 | 2156.8 |
| 52.5° | 2052.5 | 2054.8 | 2070.7 | 2082.0 | 2113.7 | 2140.9 | 2161.3 | 2177.1 | 2190.7 | 2193.0 | 2193.0 |
| 55°   | 2088.8 | 2093.3 | 2102.4 | 2129.6 | 2154.5 | 2195.3 | 2229.3 | 2242.8 | 2251.9 | 2261.0 | 2251.9 |
| 57.5° | 2091.1 | 2106.9 | 2122.8 | 2154.5 | 2193.0 | 2227.0 | 2256.4 | 2281.4 | 2288.2 | 2304.0 | 2285.9 |
| 60°   | 2063.9 | 2068.4 | 2084.3 | 2122.8 | 2172.6 | 2208.9 | 2236.0 | 2258.7 | 2281.4 | 2272.3 | 2281.4 |
| 62.5° | 2020.8 | 2032.2 | 2054.8 | 2084.3 | 2125.0 | 2168.1 | 2208.9 | 2215.7 | 2249.6 | 2240.6 | 2254.2 |
| 65°   | 1986.8 | 1995.9 | 2018.6 | 2061.6 | 2111.4 | 2138.6 | 2183.9 | 2211.1 | 2208.9 | 2227.0 | 2206.6 |
| 67.5° | 1903.0 | 1909.8 | 1930.2 | 1973.2 | 2020.8 | 2061.6 | 2075.2 | 2118.2 | 2122.8 | 2147.7 | 2125.0 |
| 70°   | 1764.8 | 1780.7 | 1810.1 | 1850.9 | 1889.4 | 1923.4 | 1948.3 | 1971.0 | 1984.6 | 1989.1 | 1984.6 |
| 72.5° | 1592.6 | 1617.6 | 1640.2 | 1678.7 | 1717.2 | 1739.9 | 1755.8 | 1787.5 | 1796.5 | 1810.1 | 1805.6 |
| 75°   | 1415.9 | 1415.9 | 1438.6 | 1468.0 | 1497.5 | 1511.1 | 1520.1 | 1540.5 | 1551.9 | 1567.7 | 1554.1 |
| 77.5° | 1173.5 | 1187.1 | 1207.5 | 1232.4 | 1227.9 | 1234.7 | 1234.7 | 1246.0 | 1241.5 | 1252.8 | 1261.9 |
| 80°   | 919.8  | 933.4  | 951.5  | 969.6  | 967.4  | 951.5  | 962.8  | 949.2  | 944.7  | 947.0  | 953.8  |
| 82.5° | 657.0  | 666.1  | 681.9  | 693.2  | 693.2  | 681.9  | 686.4  | 672.9  | 677.4  | 666.1  | 675.1  |
| 85°   | 376.1  | 387.4  | 398.7  | 410.1  | 410.1  | 403.3  | 410.1  | 391.9  | 394.2  | 394.2  | 394.2  |
| 87.5° | 92.9   | 101.9  | 106.5  | 113.3  | 108.7  | 120.1  | 126.9  | 115.5  | 117.8  | 113.3  | 120.1  |
| 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°    | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2231.5 |
| 2.5°  | 2231.5 | 2229.3 | 2231.5 | 2231.5 | 2231.5 | 2231.5 | 2229.3 | 2229.3 |
| 5°    | 2231.5 | 2231.5 | 2231.5 | 2229.3 | 2229.3 | 2229.3 | 2229.3 | 2229.3 |
| 7.5°  | 2227.0 | 2227.0 | 2227.0 | 2224.7 | 2224.7 | 2224.7 | 2224.7 | 2224.7 |
| 10°   | 2222.5 | 2222.5 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 12.5° | 2217.9 | 2217.9 | 2215.7 | 2215.7 | 2215.7 | 2215.7 | 2215.7 | 2213.4 |
| 15°   | 2213.4 | 2213.4 | 2211.1 | 2211.1 | 2208.9 | 2208.9 | 2206.6 | 2206.6 |
| 17.5° | 2213.4 | 2211.1 | 2208.9 | 2206.6 | 2206.6 | 2204.3 | 2202.1 | 2202.1 |
| 20°   | 2220.2 | 2217.9 | 2215.7 | 2213.4 | 2211.1 | 2208.9 | 2208.9 | 2206.6 |
| 22.5° | 2202.1 | 2199.8 | 2197.5 | 2197.5 | 2195.3 | 2195.3 | 2195.3 | 2193.0 |
| 25°   | 2179.4 | 2177.1 | 2177.1 | 2172.6 | 2172.6 | 2170.3 | 2170.3 | 2168.1 |
| 27.5° | 2154.5 | 2152.2 | 2152.2 | 2150.0 | 2147.7 | 2145.4 | 2143.2 | 2143.2 |
| 30°   | 2129.6 | 2127.3 | 2127.3 | 2125.0 | 2120.5 | 2120.5 | 2118.2 | 2116.0 |
| 32.5° | 2106.9 | 2106.9 | 2104.6 | 2100.1 | 2095.6 | 2093.3 | 2088.8 | 2088.8 |
| 35°   | 2100.1 | 2095.6 | 2091.1 | 2084.3 | 2077.5 | 2072.9 | 2070.7 | 2068.4 |
| 37.5° | 2125.0 | 2118.2 | 2106.9 | 2100.1 | 2091.1 | 2082.0 | 2077.5 | 2072.9 |
| 40°   | 2168.1 | 2156.8 | 2145.4 | 2134.1 | 2120.5 | 2109.2 | 2100.1 | 2097.9 |
| 42.5° | 2170.3 | 2163.6 | 2152.2 | 2138.6 | 2122.8 | 2109.2 | 2100.1 | 2097.9 |
| 45°   | 2163.6 | 2154.5 | 2140.9 | 2125.0 | 2113.7 | 2097.9 | 2091.1 | 2088.8 |
| 47.5° | 2147.7 | 2138.6 | 2125.0 | 2102.4 | 2086.5 | 2075.2 | 2072.9 | 2072.9 |
| 50°   | 2156.8 | 2138.6 | 2116.0 | 2102.4 | 2086.5 | 2068.4 | 2061.6 | 2057.1 |
| 52.5° | 2177.1 | 2159.0 | 2145.4 | 2116.0 | 2082.0 | 2066.1 | 2057.1 | 2050.3 |
| 55°   | 2242.8 | 2233.8 | 2193.0 | 2152.2 | 2127.3 | 2106.9 | 2097.9 | 2093.3 |
| 57.5° | 2285.9 | 2254.2 | 2220.2 | 2193.0 | 2163.6 | 2129.6 | 2106.9 | 2095.6 |
| 60°   | 2263.2 | 2229.3 | 2213.4 | 2177.1 | 2116.0 | 2079.7 | 2066.1 | 2059.3 |
| 62.5° | 2213.4 | 2213.4 | 2170.3 | 2113.7 | 2091.1 | 2059.3 | 2034.4 | 2025.4 |
| 65°   | 2211.1 | 2181.7 | 2138.6 | 2118.2 | 2063.9 | 2016.3 | 1991.4 | 1986.8 |
| 67.5° | 2116.0 | 2075.2 | 2063.9 | 2018.6 | 1973.2 | 1930.2 | 1912.1 | 1903.0 |
| 70°   | 1971.0 | 1957.4 | 1923.4 | 1894.0 | 1853.2 | 1807.9 | 1782.9 | 1773.9 |
| 72.5° | 1787.5 | 1764.8 | 1749.0 | 1724.0 | 1685.5 | 1628.9 | 1608.5 | 1597.2 |
| 75°   | 1538.3 | 1526.9 | 1526.9 | 1499.8 | 1463.5 | 1429.5 | 1427.3 | 1422.7 |
| 77.5° | 1237.0 | 1241.5 | 1252.8 | 1223.4 | 1234.7 | 1216.6 | 1200.7 | 1189.4 |
| 80°   | 940.2  | 960.6  | 962.8  | 969.6  | 976.4  | 951.5  | 940.2  | 926.6  |
| 82.5° | 668.3  | 679.6  | 693.2  | 695.5  | 700.0  | 681.9  | 672.9  | 659.3  |
| 85°   | 394.2  | 401.0  | 412.3  | 412.3  | 412.3  | 396.5  | 391.9  | 380.6  |
| 87.5° | 115.5  | 115.5  | 122.3  | 115.5  | 115.5  | 115.5  | 104.2  | 111.0  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)