

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: LUMARK

Report Number: P622846

Luminaire Tested: **PRV-M-PA6D-8540-U-T2R**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6D-8540-U-T2R  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53164.9 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 544  
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: 28.75 FT

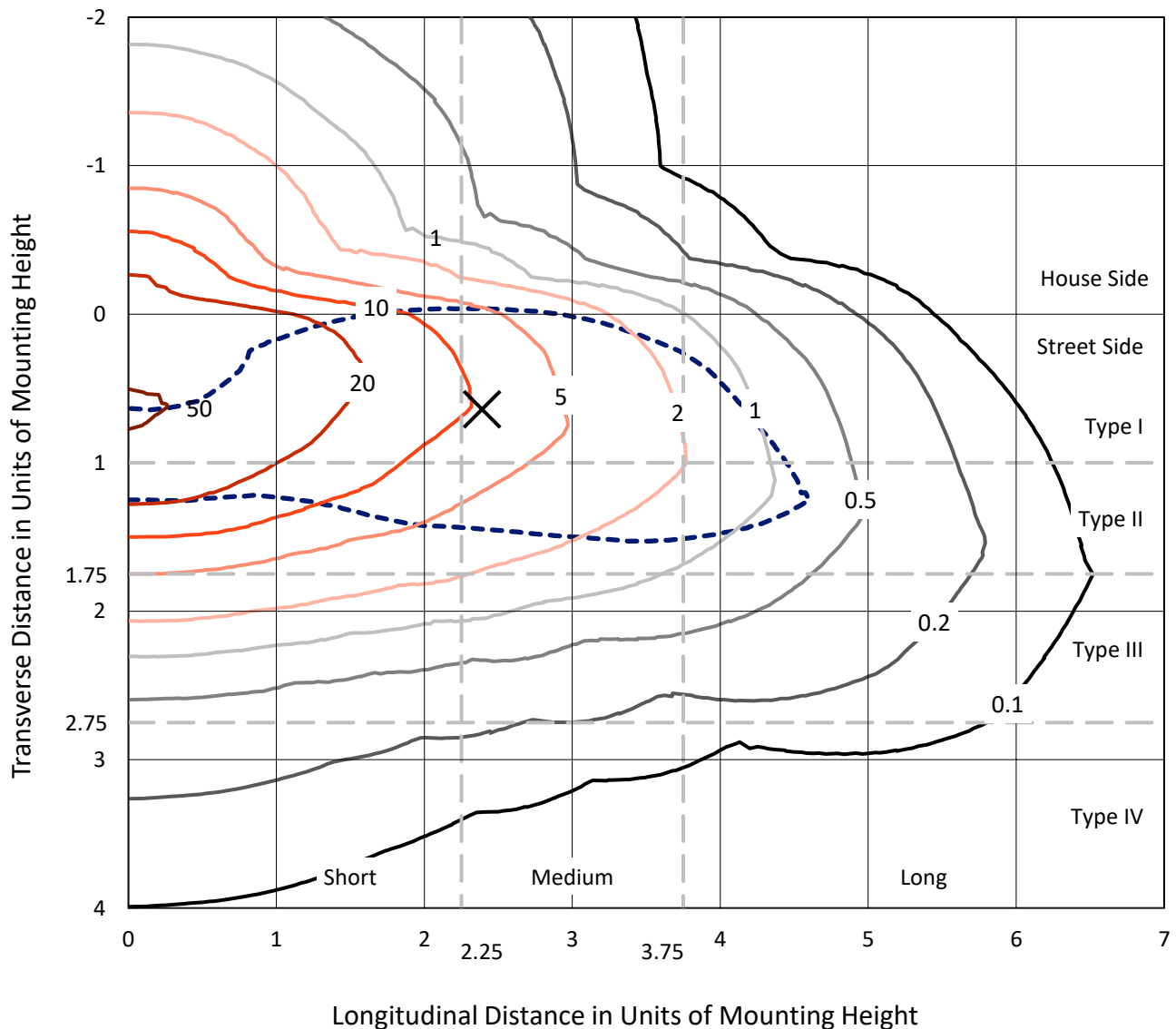


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

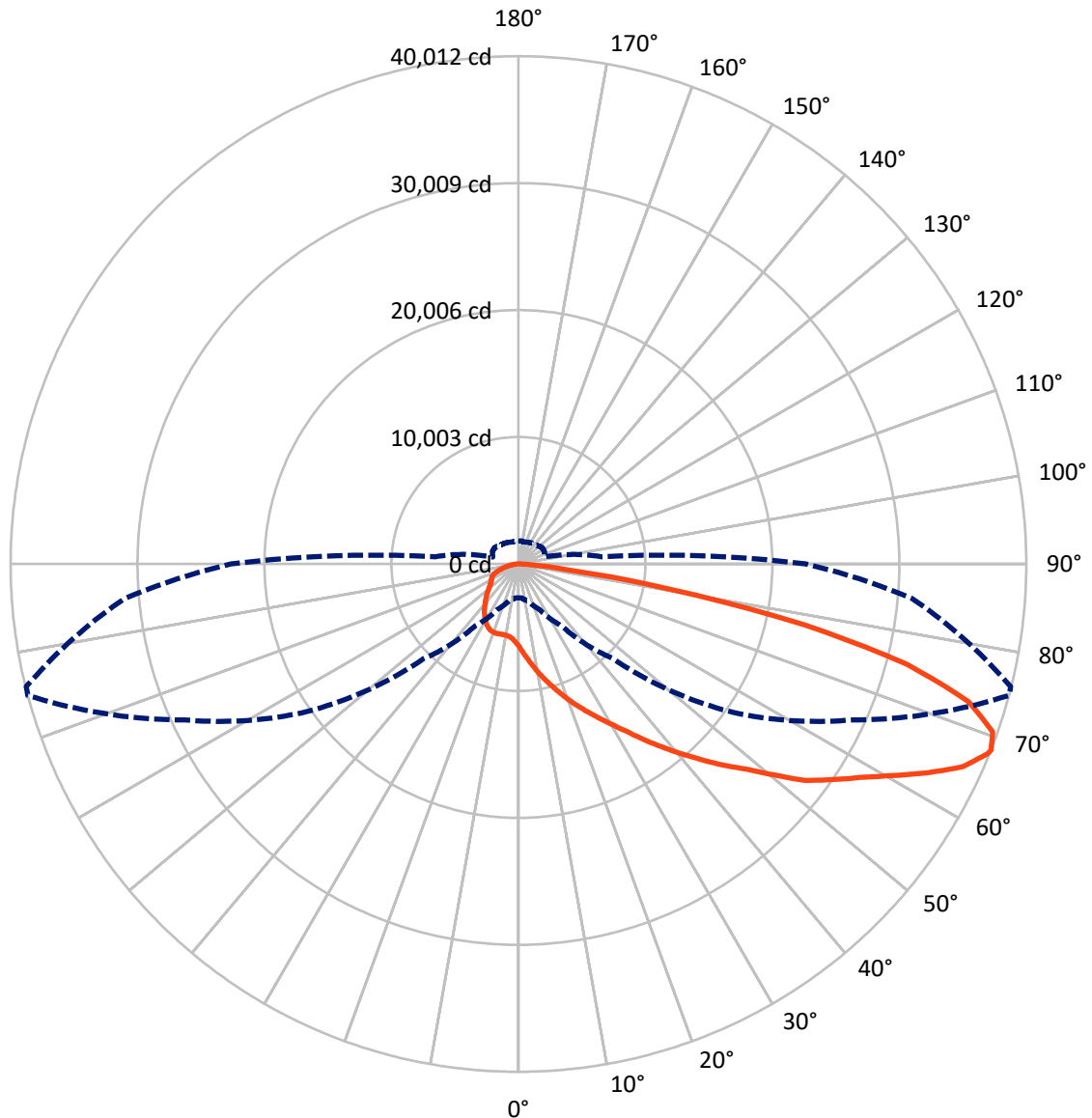


Based on 15 foot mounting height. Maximum calculated value = 53.7 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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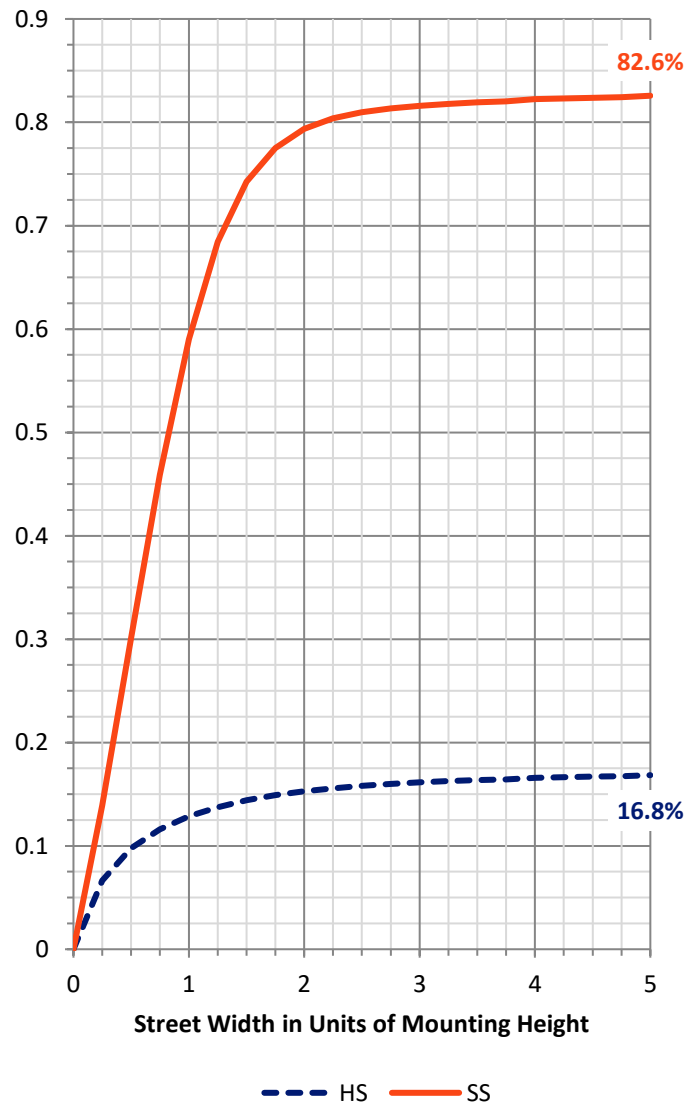
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9101.1   | 0.0    | 9101.1  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 44063.8  | 0.0    | 44063.8 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 53164.9  | 0.0    | 53164.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 682.7   | 1.3       |
| 10°-20°   | 2336.9  | 4.4       |
| 20°-30°   | 4327.3  | 8.1       |
| 30°-40°   | 7052.0  | 13.3      |
| 40°-50°   | 9940.7  | 18.7      |
| 50°-60°   | 11433.2 | 21.5      |
| 60°-70°   | 10397.3 | 19.6      |
| 70°-80°   | 6037.2  | 11.4      |
| 80°-90°   | 957.7   | 1.8       |
| 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°    | 53164.9 | 100.0     |
| 0°-180°   | 53164.9 | 100.0     |

**Coefficient of Utilization**



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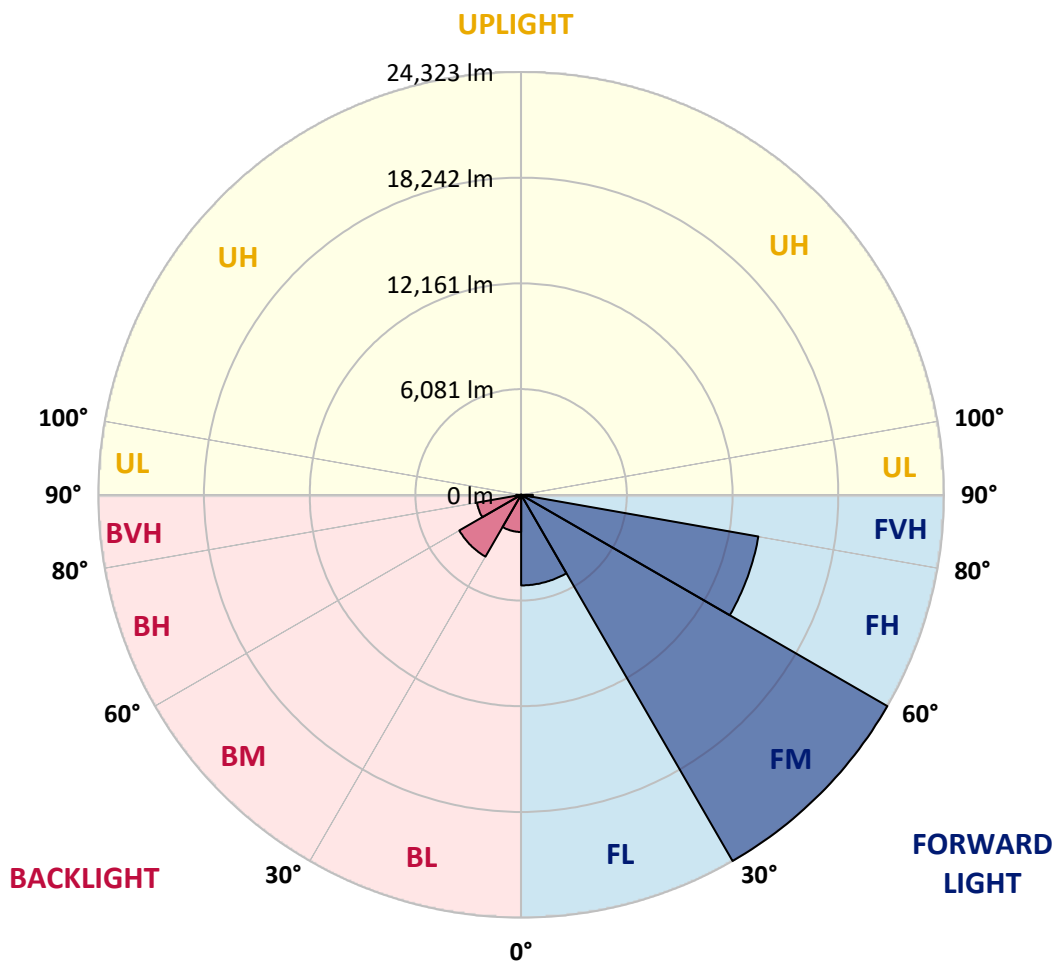
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5209.6  | 9.8       |                         |      |         |
| FM   | (30°-60°)   | 24322.6 | 45.7      |                         |      |         |
| FH   | (60°-80°)   | 13855.0 | 26.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 676.7   | 1.3       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2137.4  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4103.3  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2579.5  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 281.0   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  | 6495.6  |
| 2.5°  | 8263.9  | 8101.6  | 8078.6  | 8058.2  | 7908.7  | 7681.3  | 7534.3  | 7234.1  | 6976.0  | 6933.9  | 6682.1  |
| 5°    | 9435.5  | 9342.2  | 9279.6  | 9218.3  | 9038.2  | 8850.3  | 8488.7  | 8021.1  | 7501.1  | 7428.3  | 6917.3  |
| 7.5°  | 10106.3 | 10025.8 | 9996.4  | 9958.0  | 9831.6  | 9655.3  | 9317.9  | 8777.5  | 8073.5  | 7996.9  | 7220.0  |
| 10°   | 10728.5 | 10618.6 | 10596.9 | 10582.8 | 10498.5 | 10335.0 | 10079.4 | 9523.6  | 8705.9  | 8580.7  | 7607.2  |
| 12.5° | 11274.0 | 11187.2 | 11200.0 | 11187.2 | 11161.6 | 11065.7 | 10821.8 | 10271.1 | 9357.6  | 9215.8  | 8008.4  |
| 15°   | 11640.7 | 11538.5 | 11629.2 | 11734.0 | 11791.5 | 11797.9 | 11573.0 | 11030.0 | 9995.1  | 9867.4  | 8460.6  |
| 17.5° | 11828.5 | 11722.5 | 11859.2 | 12061.1 | 12298.7 | 12417.5 | 12324.3 | 11827.3 | 10711.8 | 10550.8 | 8947.4  |
| 20°   | 12210.6 | 12082.8 | 12208.0 | 12399.7 | 12733.1 | 12983.5 | 13071.7 | 12652.7 | 11455.4 | 11272.8 | 9459.7  |
| 22.5° | 13030.8 | 12891.5 | 12927.3 | 12998.9 | 13258.2 | 13529.1 | 13718.2 | 13486.9 | 12214.4 | 12018.9 | 9988.7  |
| 25°   | 14451.6 | 14325.1 | 14159.0 | 13994.2 | 14044.0 | 14169.2 | 14308.5 | 14314.9 | 13002.7 | 12781.7 | 10536.8 |
| 27.5° | 16434.5 | 16134.3 | 15839.1 | 15389.4 | 15119.8 | 14994.6 | 14938.4 | 15128.7 | 13830.6 | 13603.2 | 11070.9 |
| 30°   | 18426.3 | 18146.6 | 17713.4 | 17138.5 | 16507.3 | 16124.0 | 15735.6 | 15913.2 | 14726.3 | 14470.7 | 11619.0 |
| 32.5° | 20149.9 | 19877.8 | 19437.0 | 18789.2 | 18041.8 | 17511.6 | 16741.2 | 16744.9 | 15762.4 | 15443.0 | 12264.2 |
| 35°   | 21665.2 | 21294.7 | 20848.8 | 20174.2 | 19443.4 | 18796.9 | 17922.9 | 17636.8 | 16971.1 | 16612.0 | 13044.9 |
| 37.5° | 22804.9 | 22415.2 | 21959.1 | 21294.7 | 20645.7 | 20164.0 | 19219.8 | 18618.0 | 18261.5 | 17926.8 | 13904.7 |
| 40°   | 23566.3 | 23175.4 | 22764.0 | 22168.6 | 21628.2 | 21344.5 | 20738.9 | 19729.6 | 19608.2 | 19227.4 | 14851.5 |
| 42.5° | 23911.3 | 23534.4 | 23272.5 | 22772.9 | 22370.5 | 22336.0 | 22044.7 | 20979.2 | 21057.1 | 20663.5 | 15891.5 |
| 45°   | 23769.5 | 23438.6 | 23312.1 | 23046.4 | 22835.6 | 23069.4 | 23360.6 | 22301.5 | 22588.9 | 22215.9 | 17000.5 |
| 47.5° | 23091.1 | 22827.9 | 22916.1 | 22922.4 | 22978.6 | 23582.9 | 24402.0 | 23682.6 | 24136.2 | 23769.5 | 18351.0 |
| 50°   | 21675.5 | 21534.9 | 21974.4 | 22401.2 | 22776.8 | 23851.3 | 25361.4 | 25199.2 | 26139.6 | 25729.5 | 20043.9 |
| 52.5° | 18581.0 | 18777.7 | 20048.9 | 21121.0 | 22185.2 | 23818.1 | 26128.1 | 26870.4 | 28326.9 | 27921.9 | 21718.9 |
| 55°   | 14745.5 | 14962.7 | 16571.2 | 18956.6 | 21000.8 | 23429.6 | 26553.6 | 28061.2 | 29995.6 | 29704.2 | 23207.3 |
| 57.5° | 11833.6 | 11976.8 | 13116.4 | 15805.9 | 18858.2 | 22511.0 | 26779.7 | 28964.5 | 31720.3 | 31403.5 | 24914.3 |
| 60°   | 9416.4  | 9570.9  | 10419.3 | 12462.2 | 15903.0 | 20797.7 | 26729.8 | 29740.0 | 33832.3 | 33555.1 | 26812.9 |
| 62.5° | 7105.0  | 7054.0  | 7789.8  | 9503.2  | 12696.0 | 18160.6 | 25983.7 | 30271.5 | 36208.8 | 36001.8 | 28673.1 |
| 65°   | 4520.3  | 4697.9  | 5306.1  | 6637.4  | 9546.6  | 14832.3 | 24166.9 | 30231.9 | 38486.9 | 38385.9 | 30214.0 |
| 67.5° | 2925.8  | 2920.7  | 3325.7  | 4368.3  | 6507.1  | 11247.2 | 21032.8 | 29375.9 | 39878.2 | 39841.2 | 31122.4 |
| 68°   | 2681.8  | 2680.5  | 3030.6  | 3964.6  | 5956.4  | 10533.0 | 20248.3 | 29057.8 | 40012.4 | 39970.2 | 31125.0 |
| 70°   | 2108.1  | 2105.6  | 2260.2  | 2672.8  | 4084.7  | 7782.2  | 16477.9 | 27182.2 | 39644.4 | 39635.5 | 30433.8 |
| 72.5° | 1823.2  | 1818.1  | 1864.1  | 1961.2  | 2513.1  | 4959.8  | 11507.8 | 23474.3 | 37094.2 | 36962.6 | 28084.2 |
| 75°   | 1638.0  | 1631.5  | 1659.6  | 1654.6  | 1823.2  | 3034.4  | 7114.0  | 18951.5 | 31622.0 | 31214.5 | 22024.2 |
| 77.5° | 1447.6  | 1439.9  | 1466.7  | 1464.2  | 1543.4  | 2037.8  | 3908.3  | 13572.5 | 23015.7 | 21679.2 | 13651.8 |
| 80°   | 1232.9  | 1226.6  | 1258.5  | 1266.2  | 1354.3  | 1533.2  | 2020.0  | 8398.1  | 11980.6 | 10930.4 | 5726.5  |
| 82.5° | 977.4   | 987.6   | 1043.8  | 1064.3  | 1155.0  | 1112.8  | 1254.7  | 3907.1  | 4313.4  | 3789.6  | 1755.5  |
| 85°   | 617.1   | 647.8   | 789.6   | 821.5   | 893.1   | 711.7   | 866.2   | 1584.3  | 1391.4  | 1255.9  | 463.8   |
| 87.5° | 230.0   | 255.5   | 452.3   | 456.1   | 454.8   | 287.4   | 442.1   | 559.6   | 447.2   | 405.0   | 144.4   |
| 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°    | 6495.6  | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 | 6495.6 |
| 2.5°  | 6563.3  | 6401.0 | 6159.5 | 5937.3 | 5754.6 | 5610.2 | 5465.8 | 5408.3 | 5350.8 | 5341.9 | 5281.8 |
| 5°    | 6648.9  | 6360.2 | 5907.9 | 5564.2 | 5326.5 | 5161.7 | 5056.9 | 5011.0 | 4980.3 | 4968.8 | 4916.5 |
| 7.5°  | 6804.8  | 6383.2 | 5760.9 | 5361.0 | 5147.7 | 5049.3 | 5014.8 | 5011.0 | 5009.7 | 5012.2 | 4953.5 |
| 10°   | 7032.2  | 6479.0 | 5704.7 | 5295.9 | 5141.3 | 5095.3 | 5095.3 | 5108.1 | 5108.1 | 5117.0 | 5059.5 |
| 12.5° | 7290.3  | 6597.8 | 5689.4 | 5306.1 | 5195.0 | 5160.4 | 5155.4 | 5164.3 | 5151.5 | 5154.1 | 5096.5 |
| 15°   | 7576.5  | 6739.7 | 5703.5 | 5338.0 | 5228.2 | 5175.8 | 5137.4 | 5119.6 | 5085.0 | 5069.8 | 5017.4 |
| 17.5° | 7898.4  | 6905.7 | 5726.5 | 5347.0 | 5202.6 | 5110.6 | 5022.5 | 4961.2 | 4908.8 | 4902.4 | 4839.7 |
| 20°   | 8247.3  | 7084.6 | 5735.4 | 5302.2 | 5105.6 | 4959.8 | 4828.3 | 4737.5 | 4660.9 | 4627.7 | 4583.0 |
| 22.5° | 8626.7  | 7264.8 | 5691.9 | 5171.9 | 4926.6 | 4736.3 | 4572.7 | 4453.9 | 4345.3 | 4307.0 | 4249.5 |
| 25°   | 9013.9  | 7429.6 | 5593.6 | 4994.4 | 4686.4 | 4466.7 | 4258.4 | 4103.9 | 3979.9 | 3928.8 | 3876.4 |
| 27.5° | 9389.5  | 7558.6 | 5435.1 | 4760.6 | 4423.2 | 4167.8 | 3922.4 | 3734.6 | 3605.6 | 3563.4 | 3518.6 |
| 30°   | 9763.9  | 7664.6 | 5209.0 | 4507.6 | 4154.9 | 3862.4 | 3597.9 | 3416.5 | 3305.3 | 3237.5 | 3194.2 |
| 32.5° | 10216.1 | 7772.0 | 4982.9 | 4246.9 | 3879.0 | 3562.1 | 3333.4 | 3192.8 | 3054.9 | 2974.4 | 2934.8 |
| 35°   | 10743.8 | 7892.1 | 4719.7 | 3981.2 | 3594.0 | 3306.6 | 3167.3 | 2984.6 | 2819.8 | 2758.4 | 2726.5 |
| 37.5° | 11360.9 | 8008.4 | 4446.3 | 3714.2 | 3319.4 | 3144.3 | 3031.9 | 2808.3 | 2683.1 | 2647.3 | 2624.3 |
| 40°   | 12050.8 | 8114.4 | 4125.5 | 3450.9 | 3070.2 | 3025.5 | 2883.6 | 2704.8 | 2609.0 | 2561.7 | 2536.1 |
| 42.5° | 12807.2 | 8201.3 | 3863.6 | 3175.0 | 2874.7 | 2882.4 | 2755.9 | 2652.4 | 2518.3 | 2462.1 | 2440.3 |
| 45°   | 13664.5 | 8332.8 | 3617.1 | 2902.8 | 2709.9 | 2709.9 | 2662.7 | 2554.1 | 2436.5 | 2402.0 | 2387.9 |
| 47.5° | 14781.2 | 8515.6 | 3357.7 | 2674.1 | 2596.2 | 2554.1 | 2561.7 | 2427.5 | 2373.9 | 2340.7 | 2329.2 |
| 50°   | 16066.5 | 8662.5 | 3094.5 | 2515.7 | 2518.3 | 2459.5 | 2412.2 | 2349.6 | 2312.6 | 2276.8 | 2253.8 |
| 52.5° | 17248.4 | 8665.1 | 2881.1 | 2427.5 | 2446.7 | 2393.1 | 2294.7 | 2276.8 | 2251.2 | 2193.7 | 2175.9 |
| 55°   | 18353.5 | 8620.4 | 2699.7 | 2381.6 | 2381.6 | 2322.8 | 2229.5 | 2214.2 | 2181.0 | 2124.7 | 2113.2 |
| 57.5° | 19614.5 | 8570.5 | 2566.8 | 2366.2 | 2343.2 | 2233.4 | 2181.0 | 2161.8 | 2108.1 | 2075.0 | 2063.4 |
| 60°   | 20976.6 | 8496.4 | 2468.4 | 2368.8 | 2321.5 | 2161.8 | 2138.8 | 2109.4 | 2054.4 | 2030.2 | 2020.0 |
| 62.5° | 22339.9 | 8281.8 | 2387.9 | 2377.7 | 2308.8 | 2124.7 | 2096.6 | 2058.3 | 1999.5 | 1980.4 | 1970.2 |
| 65°   | 23075.7 | 7717.0 | 2288.3 | 2367.5 | 2293.4 | 2103.1 | 2049.3 | 1997.0 | 1917.7 | 1910.1 | 1894.8 |
| 67.5° | 22848.3 | 6780.5 | 2132.4 | 2292.2 | 2271.6 | 2073.6 | 1988.0 | 1903.7 | 1806.6 | 1838.6 | 1823.2 |
| 68°   | 22642.6 | 6551.8 | 2092.8 | 2266.6 | 2264.0 | 2067.3 | 1973.9 | 1880.7 | 1783.6 | 1825.8 | 1800.2 |
| 70°   | 21264.0 | 5578.2 | 1898.6 | 2120.9 | 2202.7 | 2040.4 | 1902.5 | 1787.4 | 1677.6 | 1756.7 | 1717.2 |
| 72.5° | 18253.8 | 4299.3 | 1594.5 | 1859.0 | 2046.8 | 1994.5 | 1807.9 | 1641.8 | 1519.1 | 1524.3 | 1475.7 |
| 75°   | 13568.7 | 2973.1 | 1281.5 | 1501.2 | 1802.8 | 1930.6 | 1696.8 | 1483.4 | 1330.0 | 1279.0 | 1258.5 |
| 77.5° | 7420.6  | 1939.5 | 1000.4 | 1139.7 | 1456.5 | 1763.2 | 1561.3 | 1309.6 | 1134.6 | 1086.0 | 1059.2 |
| 80°   | 3080.4  | 1151.2 | 775.6  | 840.7  | 1010.6 | 1505.1 | 1461.6 | 1130.7 | 935.2  | 894.3  | 857.3  |
| 82.5° | 1019.5  | 705.2  | 575.0  | 569.9  | 660.5  | 1172.9 | 1289.1 | 890.5  | 718.0  | 747.5  | 618.4  |
| 85°   | 356.5   | 370.5  | 362.8  | 342.4  | 369.3  | 687.4  | 954.4  | 592.8  | 467.6  | 382.0  | 359.0  |
| 87.5° | 99.7    | 134.1  | 135.5  | 107.3  | 109.9  | 158.4  | 430.6  | 270.8  | 164.8  | 109.9  | 97.1   |
| 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)