

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: P622845

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

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)  
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-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE  
SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42001.7 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

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



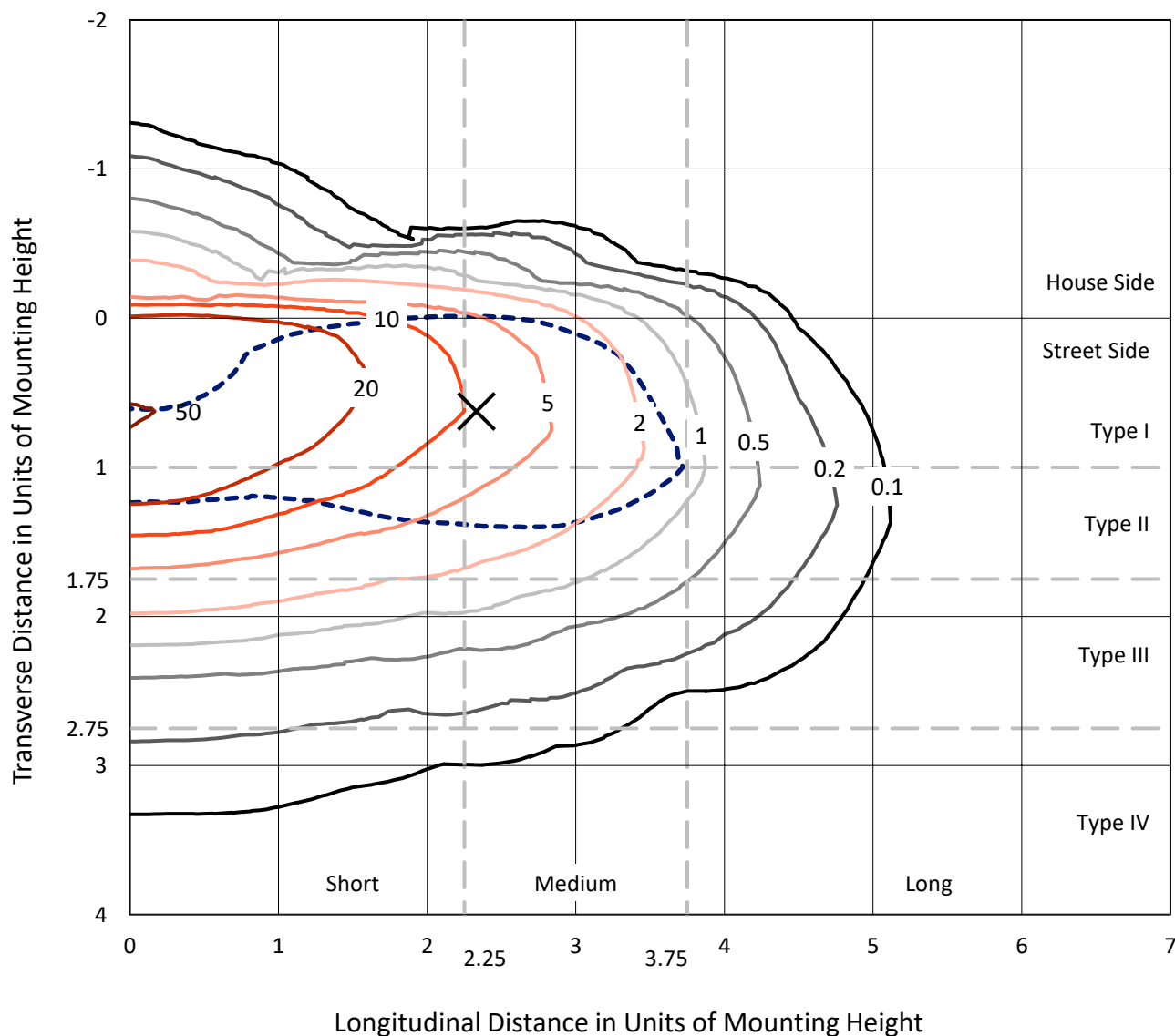
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

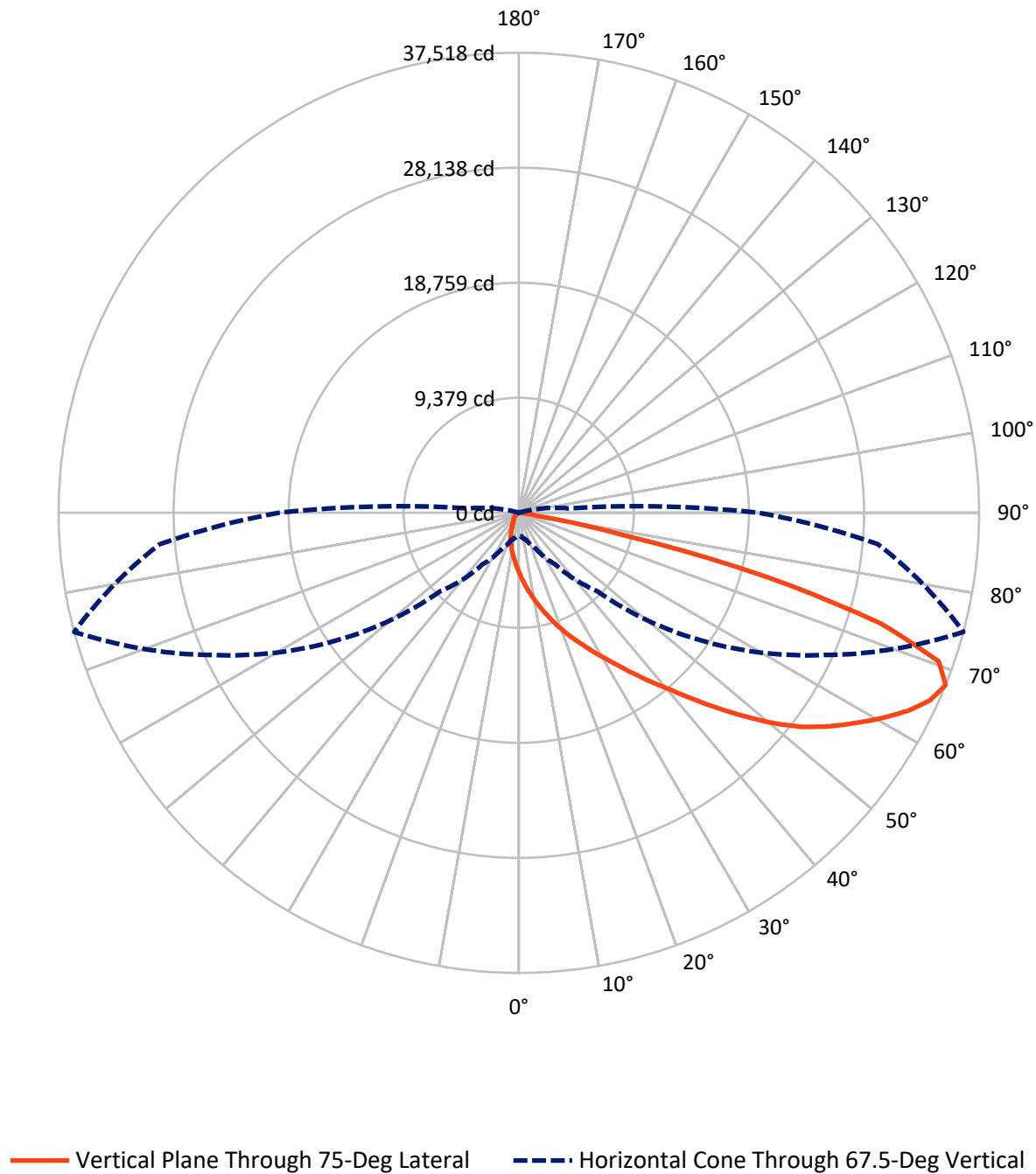


Based on 15 foot mounting height. Maximum calculated value = 52 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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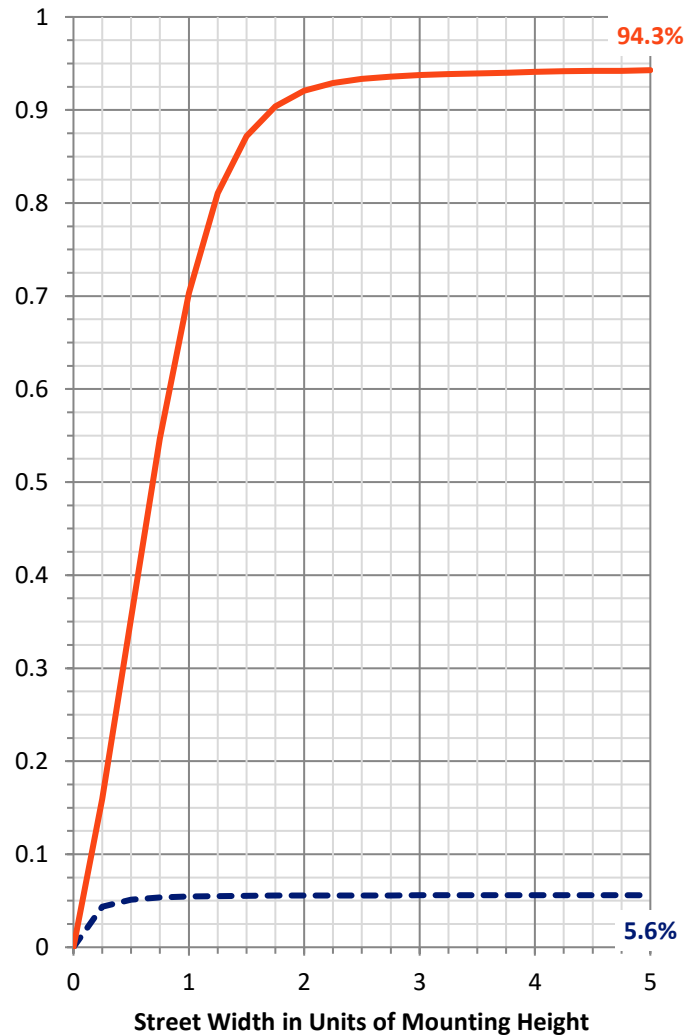
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2361.9   | 0.0    | 2361.9  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 39639.8  | 0.0    | 39639.8 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 42001.7  | 0.0    | 42001.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.4   | 1.1       |
| 10°-20°   | 1620.7  | 3.9       |
| 20°-30°   | 3223.4  | 7.7       |
| 30°-40°   | 5843.9  | 13.9      |
| 40°-50°   | 8749.3  | 20.8      |
| 50°-60°   | 9971.3  | 23.7      |
| 60°-70°   | 8470.4  | 20.2      |
| 70°-80°   | 3494.7  | 8.3       |
| 80°-90°   | 147.5   | 0.4       |
| 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°    | 42001.7 | 100.0     |
| 0°-180°   | 42001.7 | 100.0     |

**Coefficient of Utilization**



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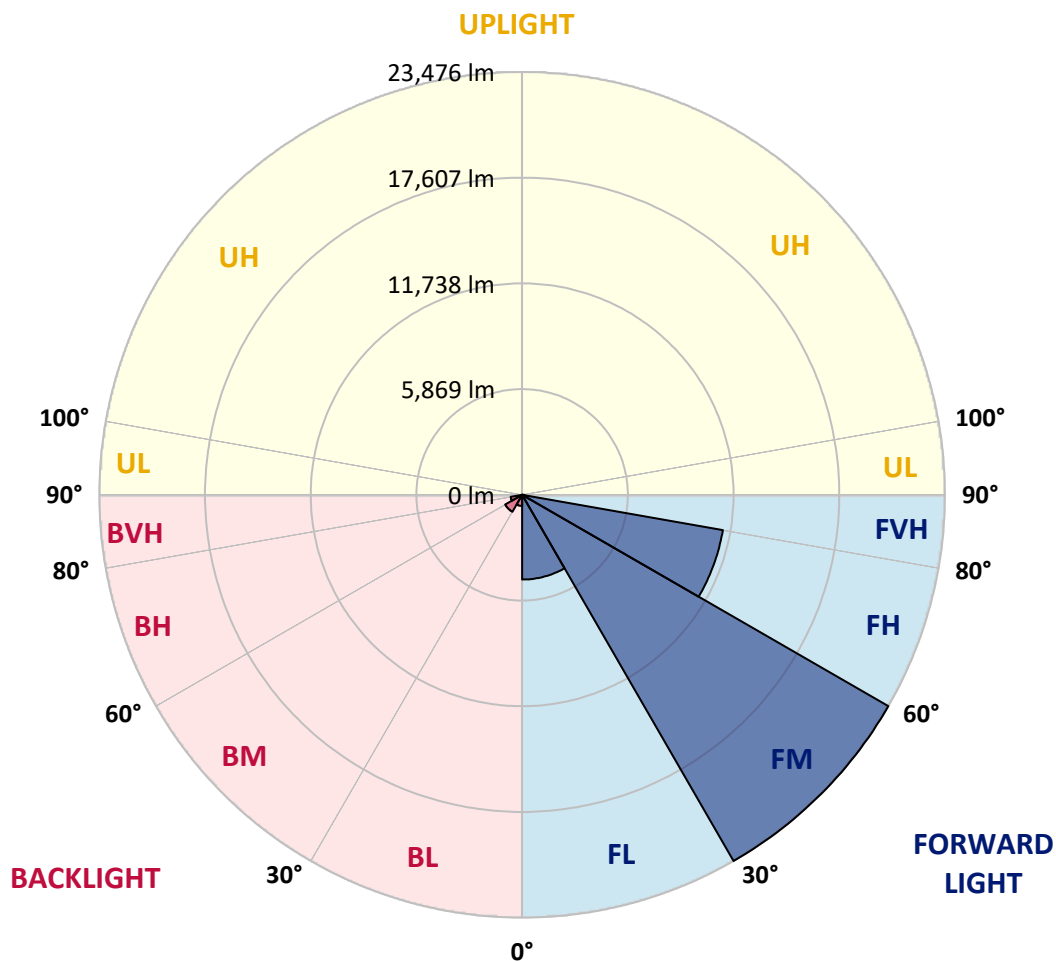
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4705.0  | 11.2      |                         |      |          |
| FM   | (30°-60°)   | 23476.3 | 55.9      |                         |      |          |
| FH   | (60°-80°)   | 11318.2 | 26.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 140.2   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 619.5   | 1.5       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1088.3  | 2.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 646.9   | 1.5       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 7.3     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  | 4889.5  |
| 2.5°  | 6789.4  | 6707.6  | 6769.0  | 6697.4  | 6526.1  | 6312.8  | 6073.9  | 5772.4  | 5441.5  | 5110.6  | 4943.2  |
| 5°    | 8196.1  | 8028.6  | 8040.2  | 7949.5  | 7757.8  | 7471.6  | 7120.3  | 6609.2  | 6018.9  | 5357.1  | 5014.7  |
| 7.5°  | 8938.3  | 8795.3  | 8808.0  | 8742.9  | 8607.4  | 8368.5  | 8021.1  | 7415.4  | 6629.7  | 5663.8  | 5142.5  |
| 10°   | 9519.7  | 9430.2  | 9458.3  | 9420.0  | 9321.6  | 9130.0  | 8823.4  | 8212.7  | 7276.2  | 6031.8  | 5320.1  |
| 12.5° | 10115.0 | 10019.3 | 10072.9 | 10057.6 | 9997.5  | 9863.4  | 9554.2  | 8998.4  | 7946.9  | 6436.7  | 5520.7  |
| 15°   | 10468.9 | 10350.2 | 10461.3 | 10573.7 | 10646.5 | 10599.3 | 10365.5 | 9785.5  | 8670.1  | 6866.0  | 5734.1  |
| 17.5° | 10633.8 | 10535.4 | 10690.0 | 10882.9 | 11132.1 | 11266.2 | 11112.9 | 10612.1 | 9431.5  | 7340.0  | 5987.1  |
| 20°   | 11013.2 | 10923.8 | 11064.3 | 11267.5 | 11537.1 | 11814.3 | 11855.2 | 11464.2 | 10213.5 | 7851.1  | 6260.4  |
| 22.5° | 11896.1 | 11793.9 | 11855.2 | 11891.0 | 12073.7 | 12336.9 | 12515.8 | 12329.2 | 11019.6 | 8391.6  | 6549.2  |
| 25°   | 13424.1 | 13277.3 | 13203.1 | 12950.1 | 12932.3 | 13008.9 | 13122.6 | 13200.6 | 11833.5 | 8951.1  | 6834.1  |
| 27.5° | 15509.3 | 15316.3 | 15057.0 | 14427.1 | 14110.2 | 13928.8 | 13801.1 | 14073.2 | 12752.1 | 9491.6  | 7133.1  |
| 30°   | 17680.0 | 17437.3 | 17116.5 | 16355.1 | 15611.5 | 15131.1 | 14658.4 | 14967.5 | 13724.4 | 10135.5 | 7453.8  |
| 32.5° | 19550.4 | 19269.3 | 18847.7 | 18073.4 | 17294.1 | 16551.8 | 15750.7 | 15870.9 | 14816.8 | 10851.0 | 7823.0  |
| 35°   | 21035.1 | 20695.2 | 20350.2 | 19582.4 | 18883.5 | 18095.2 | 17061.6 | 16825.3 | 16091.8 | 11663.6 | 8283.0  |
| 37.5° | 22089.1 | 21727.5 | 21344.3 | 20677.3 | 20181.6 | 19651.3 | 18616.5 | 17950.8 | 17458.9 | 12614.1 | 8837.4  |
| 40°   | 22719.0 | 22337.0 | 22022.7 | 21542.3 | 21184.5 | 21033.8 | 20338.7 | 19271.9 | 18932.1 | 13723.1 | 9531.2  |
| 42.5° | 22963.0 | 22592.5 | 22370.2 | 22021.4 | 21875.8 | 22099.3 | 22018.8 | 20929.0 | 20702.8 | 15053.2 | 10362.9 |
| 45°   | 22798.2 | 22458.3 | 22325.4 | 22164.5 | 22238.6 | 22850.6 | 23608.2 | 22745.8 | 22693.5 | 16546.7 | 11326.3 |
| 47.5° | 21980.5 | 21712.2 | 21802.9 | 21930.7 | 22237.3 | 23276.0 | 24898.6 | 24691.7 | 24788.8 | 18256.2 | 12431.5 |
| 50°   | 20189.3 | 20038.5 | 20452.4 | 21106.6 | 21827.1 | 23379.5 | 25896.5 | 26539.1 | 26991.4 | 20062.7 | 13645.2 |
| 52.5° | 16622.1 | 16720.5 | 18062.0 | 19466.1 | 20862.6 | 23104.8 | 26445.8 | 28148.9 | 28999.8 | 21704.5 | 14767.0 |
| 55°   | 12758.5 | 12708.6 | 14415.6 | 17002.8 | 19199.1 | 22297.3 | 26583.9 | 29121.3 | 30729.8 | 23272.2 | 15807.0 |
| 57.5° | 9869.8  | 9828.8  | 10840.8 | 13709.1 | 16651.4 | 20814.0 | 26387.1 | 29721.7 | 32352.4 | 24769.6 | 16859.7 |
| 60°   | 7590.5  | 7566.2  | 8330.2  | 10230.1 | 13473.9 | 18667.6 | 25657.6 | 30010.4 | 33992.8 | 26398.6 | 17931.6 |
| 62.5° | 5446.5  | 5478.5  | 6132.7  | 7601.9  | 10458.8 | 15656.2 | 24172.9 | 29830.3 | 35570.8 | 27843.6 | 18921.8 |
| 65°   | 3380.6  | 3416.4  | 3974.7  | 5295.8  | 7531.7  | 12209.1 | 21671.3 | 29052.2 | 36843.3 | 28913.0 | 19624.6 |
| 67.5° | 1903.7  | 1921.6  | 2279.3  | 3210.7  | 5096.5  | 9043.1  | 18145.0 | 27450.1 | 37517.8 | 29362.7 | 19523.6 |
| 70°   | 1282.7  | 1289.1  | 1395.1  | 1769.5  | 2933.4  | 6080.3  | 13730.8 | 24491.1 | 36306.7 | 27867.8 | 17645.5 |
| 72.5° | 1023.4  | 1027.2  | 1101.3  | 1190.8  | 1681.3  | 3767.8  | 9214.3  | 19828.9 | 30863.9 | 22089.1 | 12963.0 |
| 75°   | 756.4   | 773.0   | 912.2   | 963.3   | 1139.7  | 2058.3  | 4956.0  | 12994.9 | 20834.5 | 12405.9 | 7048.7  |
| 77.5° | 636.3   | 640.1   | 684.8   | 794.7   | 870.1   | 1167.8  | 1666.1  | 5743.0  | 8616.4  | 3665.5  | 1816.8  |
| 80°   | 430.6   | 430.6   | 509.8   | 583.9   | 663.1   | 769.1   | 658.0   | 1563.8  | 1595.8  | 591.6   | 337.3   |
| 82.5° | 301.5   | 311.7   | 365.4   | 493.1   | 539.2   | 412.6   | 337.3   | 433.2   | 367.9   | 195.5   | 106.0   |
| 85°   | 83.1    | 102.2   | 250.4   | 366.7   | 287.4   | 125.2   | 203.1   | 171.2   | 126.5   | 72.8    | 44.7    |
| 87.5° | 12.8    | 15.3    | 120.1   | 109.9   | 77.9    | 23.0    | 70.2    | 29.4    | 39.6    | 28.1    | 21.7    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 | 4889.5 |
| 2.5°  | 4763.1 | 4430.8 | 4075.7 | 3765.2 | 3500.7 | 3259.2 | 3141.7 | 2979.5 | 2976.9 | 2863.2 |
| 5°    | 4655.7 | 3956.8 | 3335.9 | 2810.8 | 2391.8 | 2091.5 | 1906.2 | 1750.4 | 1677.6 | 1648.1 |
| 7.5°  | 4591.8 | 3567.2 | 2717.6 | 2077.5 | 1638.0 | 1385.0 | 1240.6 | 1181.8 | 1149.9 | 1134.6 |
| 10°   | 4576.5 | 3227.3 | 2188.6 | 1538.3 | 1218.9 | 1098.8 | 1050.2 | 1020.8 | 1009.4 | 997.9  |
| 12.5° | 4567.6 | 2892.6 | 1768.2 | 1217.6 | 1061.7 | 992.7  | 949.3  | 917.4  | 903.3  | 893.1  |
| 15°   | 4562.5 | 2556.6 | 1422.0 | 1070.7 | 969.7  | 902.0  | 849.6  | 818.9  | 799.8  | 789.6  |
| 17.5° | 4570.1 | 2255.0 | 1184.4 | 988.9  | 891.8  | 808.8  | 755.0  | 715.5  | 700.2  | 686.1  |
| 20°   | 4584.2 | 1948.4 | 1059.2 | 914.8  | 807.4  | 716.8  | 660.5  | 618.4  | 596.6  | 589.0  |
| 22.5° | 4590.6 | 1646.9 | 973.6  | 834.3  | 719.3  | 626.0  | 567.3  | 531.5  | 512.3  | 504.6  |
| 25°   | 4572.6 | 1383.7 | 891.8  | 748.7  | 632.4  | 543.0  | 485.5  | 456.1  | 445.9  | 438.2  |
| 27.5° | 4530.5 | 1160.1 | 810.0  | 661.8  | 553.2  | 472.7  | 425.5  | 398.6  | 391.0  | 389.7  |
| 30°   | 4460.2 | 986.3  | 728.3  | 582.6  | 483.0  | 412.6  | 371.8  | 350.1  | 346.2  | 343.7  |
| 32.5° | 4395.1 | 868.8  | 652.9  | 514.9  | 424.2  | 360.3  | 324.6  | 310.5  | 307.9  | 307.9  |
| 35°   | 4327.3 | 780.7  | 578.8  | 453.6  | 371.8  | 316.9  | 287.4  | 274.7  | 277.3  | 276.0  |
| 37.5° | 4276.3 | 704.0  | 521.2  | 403.7  | 325.8  | 276.0  | 250.4  | 241.5  | 246.6  | 246.6  |
| 40°   | 4245.6 | 642.7  | 462.5  | 357.8  | 284.9  | 240.2  | 218.5  | 212.1  | 221.0  | 222.3  |
| 42.5° | 4244.3 | 583.9  | 415.2  | 315.5  | 247.9  | 209.5  | 190.3  | 184.0  | 194.2  | 196.8  |
| 45°   | 4268.6 | 537.9  | 369.3  | 276.0  | 217.2  | 181.4  | 161.0  | 154.6  | 166.1  | 167.4  |
| 47.5° | 4368.3 | 499.6  | 328.4  | 242.7  | 190.3  | 157.1  | 132.9  | 126.5  | 139.3  | 140.5  |
| 50°   | 4533.1 | 448.4  | 283.6  | 212.1  | 166.1  | 132.9  | 107.3  | 102.2  | 116.3  | 117.5  |
| 52.5° | 4688.9 | 399.9  | 242.7  | 182.7  | 144.4  | 109.9  | 85.6   | 83.1   | 97.1   | 99.7   |
| 55°   | 4757.9 | 351.3  | 208.3  | 157.1  | 125.2  | 90.7   | 67.7   | 69.0   | 83.1   | 85.6   |
| 57.5° | 4795.0 | 310.5  | 180.2  | 135.5  | 108.6  | 74.1   | 57.5   | 58.8   | 71.6   | 74.1   |
| 60°   | 4824.4 | 269.6  | 158.4  | 118.9  | 94.5   | 62.6   | 49.8   | 48.5   | 58.8   | 61.3   |
| 62.5° | 4809.0 | 231.2  | 139.3  | 103.5  | 80.5   | 55.0   | 42.1   | 38.4   | 44.7   | 46.0   |
| 65°   | 4614.8 | 200.6  | 120.1  | 88.2   | 69.0   | 46.0   | 33.2   | 23.0   | 26.9   | 28.1   |
| 67.5° | 4070.6 | 176.3  | 102.2  | 75.4   | 56.2   | 39.6   | 24.3   | 15.3   | 17.9   | 19.2   |
| 70°   | 3038.2 | 150.7  | 83.1   | 62.6   | 46.0   | 31.9   | 17.9   | 10.3   | 12.8   | 14.0   |
| 72.5° | 1641.8 | 123.9  | 66.4   | 48.5   | 34.5   | 24.3   | 11.5   | 6.4    | 7.7    | 7.7    |
| 75°   | 678.4  | 89.4   | 49.8   | 33.2   | 24.3   | 17.9   | 8.9    | 2.6    | 2.6    | 2.6    |
| 77.5° | 251.7  | 55.0   | 31.9   | 25.5   | 19.2   | 14.0   | 6.4    | 1.3    | 0.0    | 0.0    |
| 80°   | 115.0  | 29.4   | 24.3   | 20.4   | 15.3   | 11.5   | 5.1    | 0.0    | 0.0    | 0.0    |
| 82.5° | 53.6   | 20.4   | 19.2   | 16.6   | 12.8   | 8.9    | 3.8    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.5   | 16.6   | 17.9   | 15.3   | 12.8   | 7.7    | 2.6    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.3   | 17.9   | 17.9   | 15.3   | 12.8   | 7.7    | 1.3    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)