

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: P380945

Luminaire Tested: **PRV-XL-PA3B-750-U-T3**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3B-750-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30527 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

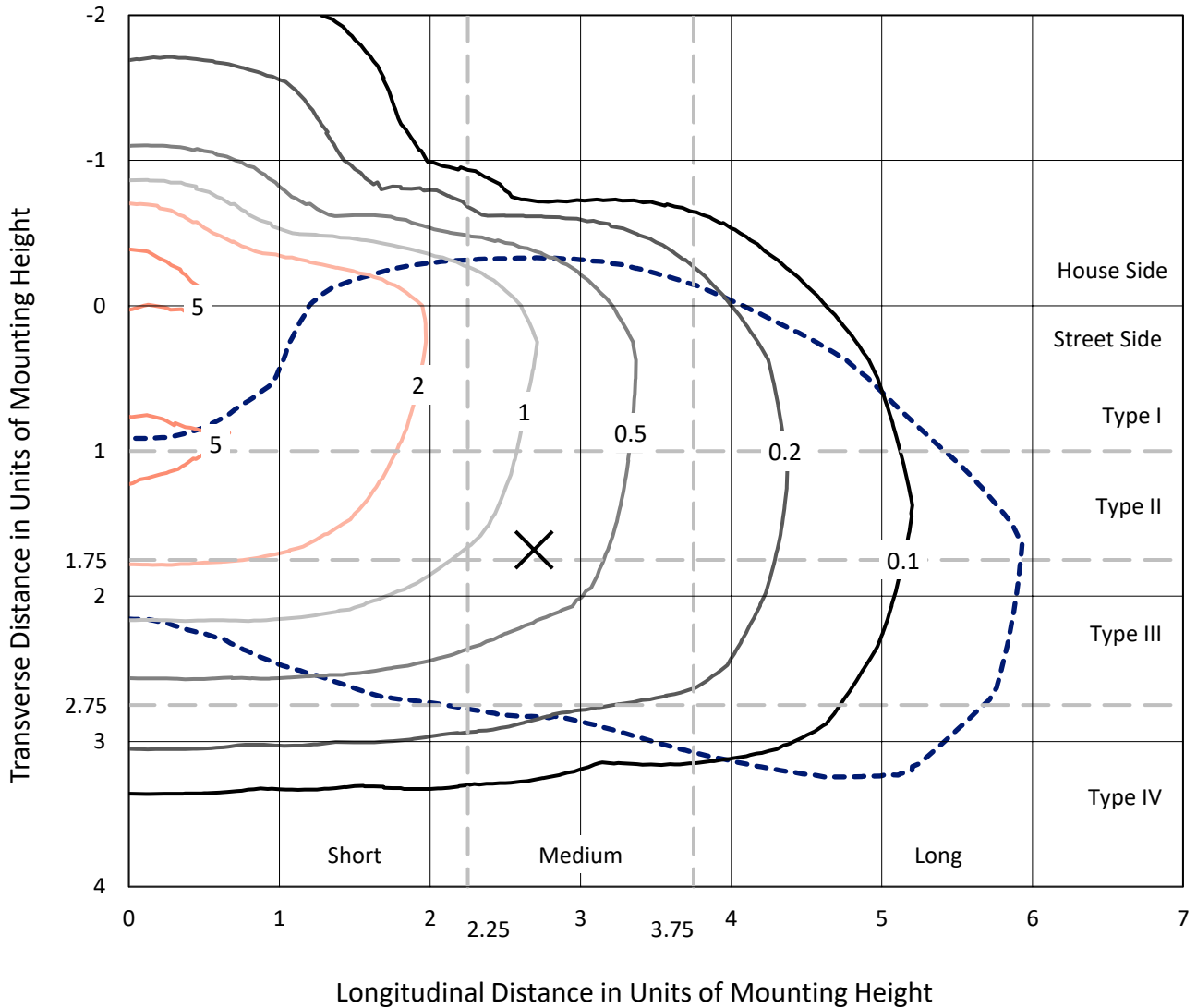
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

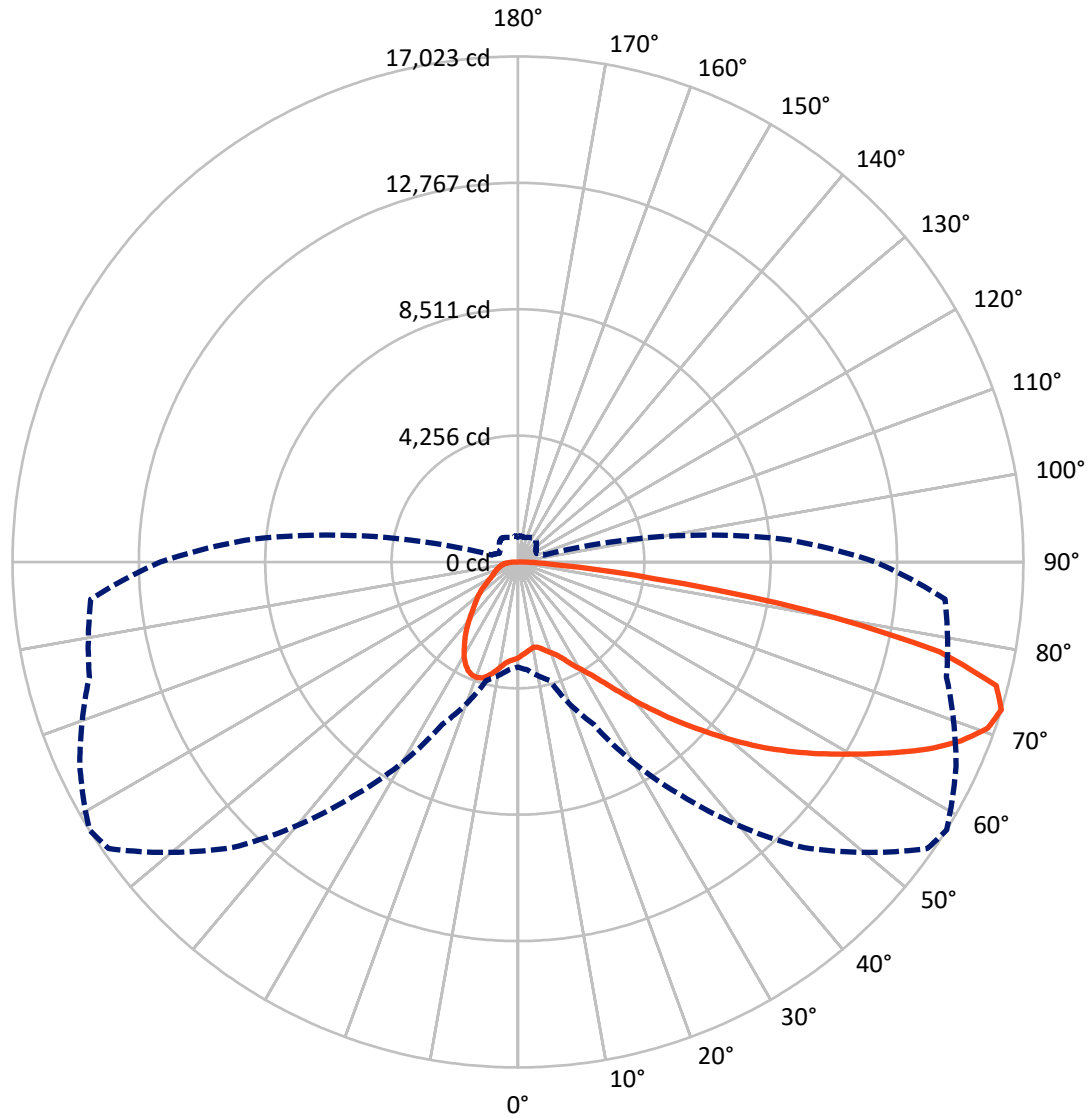
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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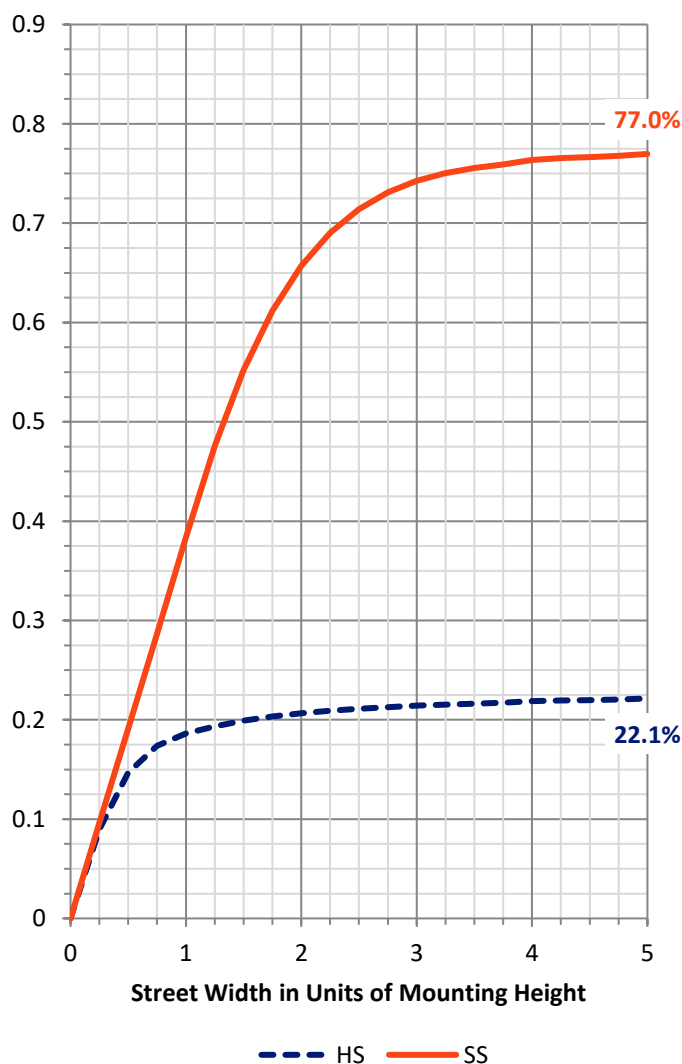
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6923.2   | 0.0    | 6923.2  |
|                    | % Fixture | 22.7     | 0.0    | 22.7    |
| <b>Street Side</b> | Lumens    | 23603.8  | 0.0    | 23603.8 |
|                    | % Fixture | 77.3     | 0.0    | 77.3    |
| <b>Total</b>       | Lumens    | 30527.0  | 0.0    | 30527.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.2   | 1.0       |
| 10°-20°   | 985.1   | 3.2       |
| 20°-30°   | 1764.6  | 5.8       |
| 30°-40°   | 2654.4  | 8.7       |
| 40°-50°   | 4298.4  | 14.1      |
| 50°-60°   | 6470.5  | 21.2      |
| 60°-70°   | 7615.1  | 24.9      |
| 70°-80°   | 5399.8  | 17.7      |
| 80°-90°   | 1028.9  | 3.4       |
| 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°    | 30527.0 | 100.0     |
| 0°-180°   | 30527.0 | 100.0     |

**Coefficient of Utilization**

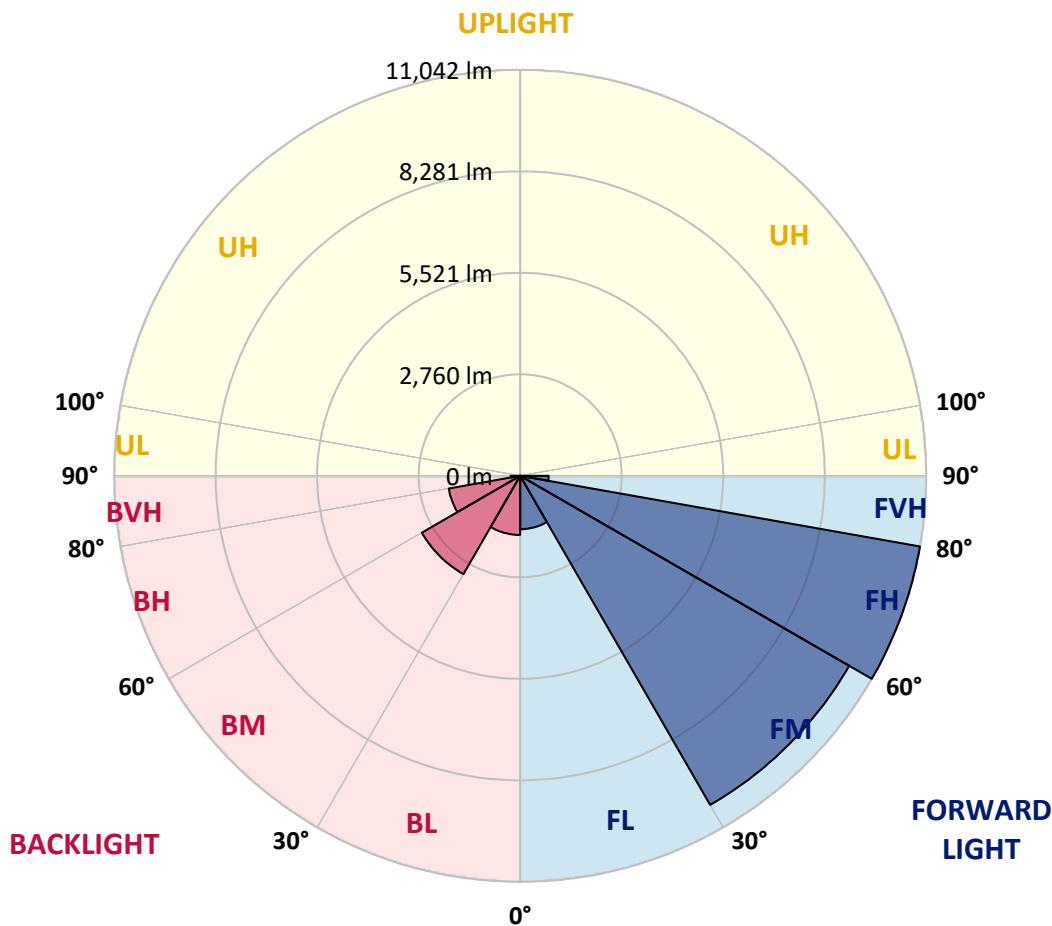


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1451.7  | 4.8       |                         |      |          |
| FM (30°-60°)   | 10334.3 | 33.9      |                         |      |          |
| FH (60°-80°)   | 11041.7 | 36.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 776.1   | 2.5       |                         |      | G5       |
| BL (0°-30°)    | 1608.1  | 5.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 3089.1  | 10.1      | B3/5000                 |      |          |
| BH (60°-80°)   | 1973.2  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 252.8   | 0.8       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  | 3219.9  |
| 2.5°  | 3099.1  | 3082.9  | 3087.0  | 3087.0  | 3103.1  | 3111.1  | 3115.2  | 3127.3  | 3135.3  | 3155.5  | 3183.7  |
| 5°    | 2954.0  | 2941.9  | 2945.9  | 2949.9  | 2978.2  | 3006.4  | 3030.5  | 3046.7  | 3070.8  | 3103.1  | 3143.4  |
| 7.5°  | 2849.2  | 2841.1  | 2845.2  | 2853.2  | 2877.4  | 2909.6  | 2949.9  | 2974.1  | 3010.4  | 3070.8  | 3139.4  |
| 10°   | 2772.6  | 2772.6  | 2776.7  | 2792.8  | 2817.0  | 2857.3  | 2889.5  | 2917.7  | 2990.2  | 3099.1  | 3203.8  |
| 12.5° | 2712.2  | 2712.2  | 2724.3  | 2756.5  | 2796.8  | 2837.1  | 2913.7  | 2945.9  | 3042.6  | 3191.7  | 3316.7  |
| 15°   | 2708.1  | 2712.2  | 2716.2  | 2744.4  | 2788.7  | 2877.4  | 2990.2  | 3038.6  | 3155.5  | 3332.8  | 3477.9  |
| 17.5° | 2772.6  | 2776.7  | 2760.5  | 2768.6  | 2821.0  | 2945.9  | 3095.0  | 3151.4  | 3300.5  | 3494.0  | 3643.1  |
| 20°   | 2970.1  | 2970.1  | 2921.7  | 2877.4  | 2913.7  | 3050.7  | 3219.9  | 3276.4  | 3441.6  | 3655.2  | 3804.3  |
| 22.5° | 3373.1  | 3393.2  | 3280.4  | 3183.7  | 3127.3  | 3203.8  | 3357.0  | 3417.4  | 3602.8  | 3832.5  | 3981.6  |
| 25°   | 3860.7  | 3880.9  | 3727.7  | 3590.7  | 3485.9  | 3473.8  | 3574.6  | 3639.1  | 3792.2  | 4030.0  | 4154.9  |
| 27.5° | 4332.2  | 4296.0  | 4154.9  | 4025.9  | 3893.0  | 3784.1  | 3860.7  | 3917.1  | 4094.5  | 4275.8  | 4352.4  |
| 30°   | 4703.0  | 4674.8  | 4537.8  | 4445.1  | 4320.1  | 4179.1  | 4134.8  | 4195.2  | 4340.3  | 4509.5  | 4549.8  |
| 32.5° | 5114.0  | 5093.9  | 4956.9  | 4836.0  | 4731.2  | 4598.2  | 4501.5  | 4529.7  | 4610.3  | 4731.2  | 4755.4  |
| 35°   | 5637.9  | 5682.3  | 5537.2  | 5291.4  | 5174.5  | 5045.5  | 4977.0  | 4985.1  | 5045.5  | 5122.1  | 5081.8  |
| 37.5° | 6190.0  | 6242.4  | 6250.5  | 5863.6  | 5706.4  | 5589.6  | 5517.0  | 5545.2  | 5617.8  | 5670.2  | 5545.2  |
| 40°   | 7213.7  | 7161.3  | 6951.7  | 6665.6  | 6423.8  | 6310.9  | 6210.2  | 6206.2  | 6258.6  | 6351.2  | 6125.6  |
| 42.5° | 8571.8  | 8523.4  | 8100.2  | 7729.5  | 7346.6  | 7217.7  | 7020.2  | 6935.6  | 6959.8  | 7076.6  | 6762.3  |
| 45°   | 9873.4  | 9853.3  | 9514.8  | 9083.6  | 8624.1  | 8374.3  | 7922.9  | 7717.4  | 7697.3  | 7789.9  | 7415.2  |
| 47.5° | 11030.0 | 10941.4 | 10695.6 | 10361.1 | 10312.7 | 9659.8  | 8829.7  | 8551.6  | 8454.9  | 8507.3  | 8088.2  |
| 50°   | 12267.2 | 11965.0 | 11626.5 | 11420.9 | 11771.6 | 11163.0 | 9744.5  | 9454.3  | 9216.6  | 9252.8  | 8817.6  |
| 52.5° | 12924.1 | 12416.4 | 12194.7 | 12255.2 | 12726.7 | 12492.9 | 10739.9 | 10385.2 | 10002.4 | 10054.8 | 9543.0  |
| 55°   | 12359.9 | 12355.9 | 12452.6 | 12827.4 | 13484.3 | 13214.3 | 11686.9 | 11288.0 | 10868.8 | 10880.9 | 10377.2 |
| 57.5° | 11586.2 | 11743.3 | 12243.1 | 13069.2 | 14423.3 | 13971.9 | 12617.8 | 12194.7 | 11811.9 | 11751.4 | 11324.2 |
| 60°   | 10880.9 | 11054.2 | 11779.6 | 13028.9 | 14749.7 | 14665.1 | 13504.4 | 13133.7 | 12823.4 | 12646.1 | 12319.6 |
| 62.5° | 9809.0  | 9937.9  | 10965.6 | 12771.0 | 14475.7 | 15164.8 | 14403.1 | 14149.2 | 13915.5 | 13548.8 | 13391.6 |
| 65°   | 8547.6  | 8591.9  | 9676.0  | 11920.7 | 14133.1 | 15358.2 | 15297.8 | 15184.9 | 14959.3 | 14419.2 | 14451.5 |
| 67.5° | 7181.4  | 7270.1  | 8221.1  | 10562.6 | 13383.5 | 15269.6 | 15990.9 | 16083.6 | 15817.6 | 15007.6 | 15128.5 |
| 70°   | 5726.6  | 5835.4  | 6556.8  | 8684.6  | 12110.1 | 14886.7 | 16631.7 | 16780.8 | 16269.0 | 15201.1 | 15253.5 |
| 72.5° | 3542.3  | 3647.1  | 4130.7  | 6032.9  | 9599.4  | 13601.2 | 16829.2 | 17022.6 | 16281.1 | 14943.1 | 14439.4 |
| 75°   | 1225.1  | 1237.2  | 1616.0  | 2893.5  | 5698.4  | 10268.4 | 16184.4 | 16639.8 | 15769.3 | 14004.2 | 12565.5 |
| 77.5° | 560.2   | 580.3   | 717.3   | 1192.9  | 2526.8  | 5541.2  | 13363.4 | 14503.9 | 14213.7 | 12537.3 | 9671.9  |
| 80°   | 386.9   | 394.9   | 495.7   | 713.3   | 1458.9  | 1950.5  | 8434.7  | 9921.8  | 10429.6 | 9708.2  | 6198.1  |
| 82.5° | 290.2   | 298.2   | 382.8   | 483.6   | 1051.8  | 947.0   | 3211.9  | 4610.3  | 5730.6  | 5625.8  | 2591.3  |
| 85°   | 278.1   | 274.0   | 298.2   | 322.4   | 701.2   | 564.2   | 1039.7  | 1426.6  | 2236.6  | 1914.2  | 652.9   |
| 87.5° | 120.9   | 133.0   | 306.3   | 181.3   | 366.7   | 261.9   | 451.4   | 527.9   | 681.1   | 592.4   | 233.7   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3219.9  | 3219.9  | 3219.9 | 3219.9 | 3219.9 | 3219.9 | 3219.9 | 3219.9 | 3219.9 | 3219.9 | 3219.9 |
| 2.5°  | 3195.8  | 3203.8  | 3228.0 | 3264.3 | 3284.4 | 3324.7 | 3352.9 | 3369.1 | 3381.1 | 3385.2 | 3385.2 |
| 5°    | 3167.6  | 3183.7  | 3236.1 | 3296.5 | 3352.9 | 3437.6 | 3514.1 | 3558.5 | 3590.7 | 3602.8 | 3606.8 |
| 7.5°  | 3175.6  | 3215.9  | 3292.5 | 3381.1 | 3453.7 | 3562.5 | 3655.2 | 3743.8 | 3816.4 | 3844.6 | 3844.6 |
| 10°   | 3252.2  | 3308.6  | 3413.4 | 3530.3 | 3622.9 | 3735.8 | 3832.5 | 3909.1 | 3993.7 | 4042.1 | 4050.1 |
| 12.5° | 3369.1  | 3437.6  | 3574.6 | 3703.5 | 3808.3 | 3897.0 | 3985.6 | 4042.1 | 4082.4 | 4118.6 | 4126.7 |
| 15°   | 3534.3  | 3618.9  | 3755.9 | 3888.9 | 3981.6 | 4038.0 | 4062.2 | 4062.2 | 4058.2 | 4062.2 | 4070.3 |
| 17.5° | 3699.5  | 3780.1  | 3917.1 | 4050.1 | 4094.5 | 4062.2 | 4034.0 | 4025.9 | 4021.9 | 4013.9 | 4017.9 |
| 20°   | 3860.7  | 3937.3  | 4054.2 | 4154.9 | 4118.6 | 4005.8 | 3969.5 | 3965.5 | 3953.4 | 3945.3 | 3937.3 |
| 22.5° | 4021.9  | 4078.3  | 4175.1 | 4211.3 | 4066.2 | 3905.0 | 3860.7 | 3836.5 | 3820.4 | 3800.3 | 3780.1 |
| 25°   | 4207.3  | 4223.4  | 4296.0 | 4239.5 | 3937.3 | 3719.7 | 3655.2 | 3618.9 | 3602.8 | 3582.6 | 3566.5 |
| 27.5° | 4380.6  | 4380.6  | 4392.7 | 4195.2 | 3747.9 | 3473.8 | 3377.1 | 3312.6 | 3308.6 | 3304.6 | 3300.5 |
| 30°   | 4537.8  | 4517.6  | 4477.3 | 4062.2 | 3502.0 | 3171.6 | 3026.5 | 2962.0 | 2986.2 | 3006.4 | 3010.4 |
| 32.5° | 4723.1  | 4682.8  | 4570.0 | 3880.9 | 3207.9 | 2833.1 | 2655.8 | 2627.5 | 2655.8 | 2679.9 | 2663.8 |
| 35°   | 5013.3  | 4940.7  | 4666.7 | 3671.3 | 2925.8 | 2522.8 | 2353.5 | 2313.2 | 2305.1 | 2301.1 | 2268.9 |
| 37.5° | 5428.4  | 5303.4  | 4743.3 | 3445.6 | 2647.7 | 2248.7 | 2123.8 | 2039.2 | 1962.6 | 1882.0 | 1869.9 |
| 40°   | 5936.2  | 5722.6  | 4795.7 | 3187.7 | 2353.5 | 2019.0 | 1886.0 | 1777.2 | 1648.3 | 1507.2 | 1491.1 |
| 42.5° | 6492.3  | 6173.9  | 4819.8 | 2901.6 | 2095.6 | 1829.6 | 1664.4 | 1527.4 | 1382.3 | 1273.5 | 1253.3 |
| 45°   | 7092.8  | 6661.5  | 4799.7 | 2627.5 | 1886.0 | 1668.4 | 1483.0 | 1333.9 | 1217.1 | 1140.5 | 1124.4 |
| 47.5° | 7677.1  | 7221.7  | 4743.3 | 2409.9 | 1724.8 | 1531.4 | 1342.0 | 1205.0 | 1116.3 | 1031.7 | 1011.5 |
| 50°   | 8426.7  | 7757.7  | 4674.8 | 2240.7 | 1547.5 | 1394.4 | 1253.3 | 1108.2 | 1007.5 | 967.2  | 959.1  |
| 52.5° | 9256.9  | 8293.7  | 4594.2 | 2027.1 | 1374.2 | 1285.6 | 1196.9 | 1067.9 | 1035.7 | 959.1  | 947.0  |
| 55°   | 10155.5 | 8930.4  | 4578.1 | 1757.1 | 1221.1 | 1209.0 | 1140.5 | 1104.2 | 1112.3 | 959.1  | 939.0  |
| 57.5° | 11102.6 | 9611.5  | 4614.3 | 1487.1 | 1096.2 | 1140.5 | 1164.7 | 1136.5 | 1124.4 | 979.3  | 939.0  |
| 60°   | 12089.9 | 10268.4 | 4505.5 | 1237.2 | 999.4  | 1084.1 | 1192.9 | 1120.3 | 1031.7 | 971.2  | 943.0  |
| 62.5° | 13049.1 | 10820.5 | 4034.0 | 1059.9 | 926.9  | 1067.9 | 1176.8 | 1059.9 | 959.1  | 959.1  | 947.0  |
| 65°   | 13746.2 | 11066.3 | 3155.5 | 930.9  | 878.5  | 1047.8 | 1148.5 | 1019.6 | 939.0  | 967.2  | 951.1  |
| 67.5° | 13826.8 | 10812.4 | 2119.8 | 830.2  | 838.2  | 1011.5 | 1084.1 | 983.3  | 918.8  | 991.4  | 967.2  |
| 70°   | 13331.2 | 10151.5 | 1297.7 | 753.6  | 785.8  | 947.0  | 1027.6 | 947.0  | 890.6  | 971.2  | 935.0  |
| 72.5° | 12045.6 | 8918.3  | 914.8  | 689.1  | 729.4  | 886.6  | 975.3  | 914.8  | 850.3  | 878.5  | 842.3  |
| 75°   | 9881.5  | 6911.4  | 725.4  | 628.7  | 673.0  | 830.2  | 930.9  | 866.4  | 802.0  | 789.9  | 765.7  |
| 77.5° | 7000.1  | 4428.9  | 584.3  | 580.3  | 612.6  | 761.7  | 870.5  | 810.0  | 745.5  | 721.4  | 705.2  |
| 80°   | 4025.9  | 2172.2  | 503.7  | 523.9  | 556.1  | 693.2  | 797.9  | 745.5  | 685.1  | 648.8  | 624.6  |
| 82.5° | 1539.5  | 757.6   | 443.3  | 455.4  | 491.7  | 620.6  | 725.4  | 681.1  | 620.6  | 652.9  | 548.1  |
| 85°   | 499.7   | 415.1   | 362.7  | 374.8  | 411.1  | 515.8  | 640.8  | 604.5  | 536.0  | 475.5  | 439.3  |
| 87.5° | 221.6   | 225.7   | 193.4  | 213.6  | 257.9  | 342.5  | 467.5  | 443.3  | 390.9  | 326.4  | 314.3  |
| 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)