

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: P285805

Luminaire Tested: **PRV-XL-C75-D-UNV-T3-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C75-D-UNV-T3-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23315 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

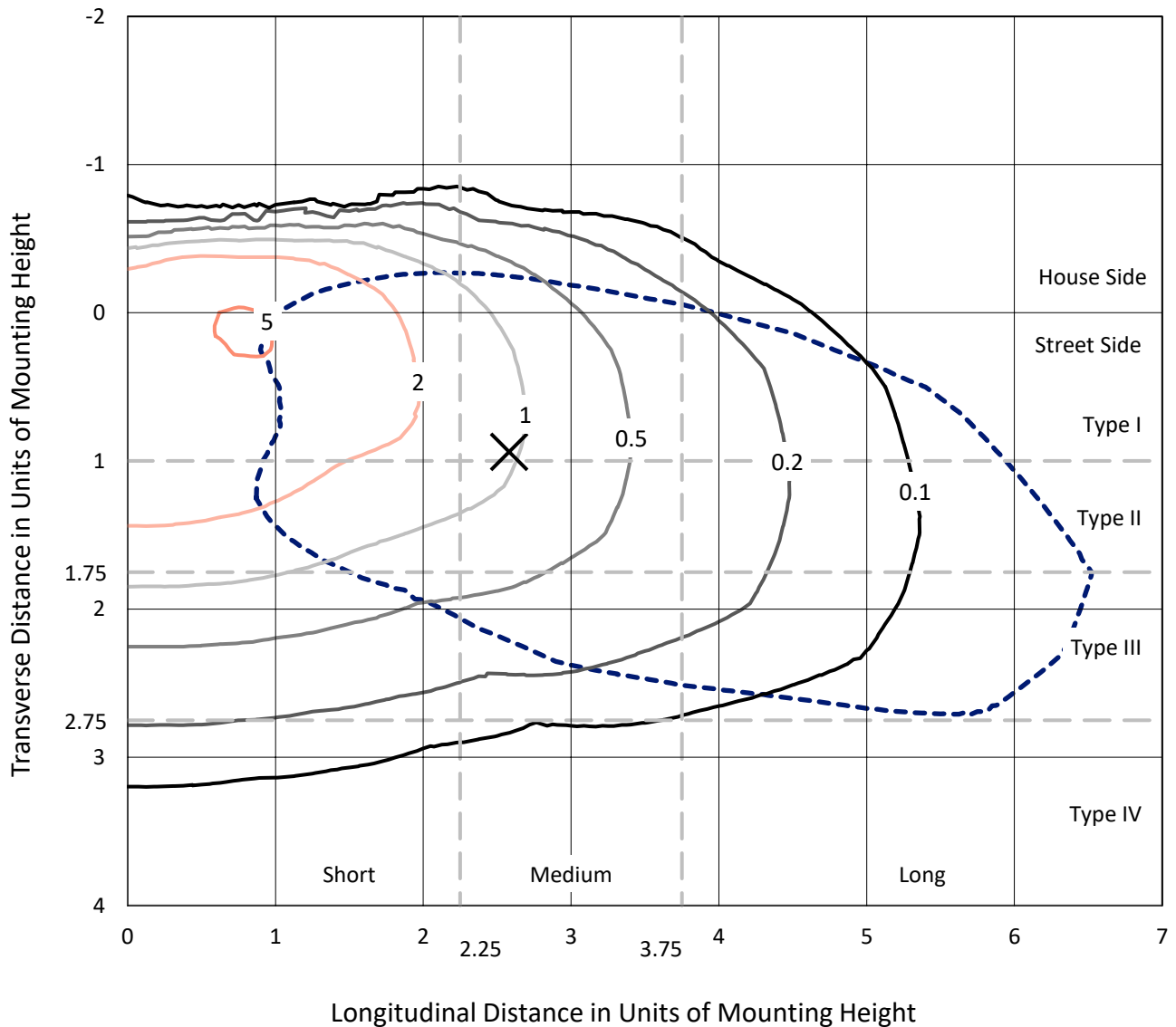
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

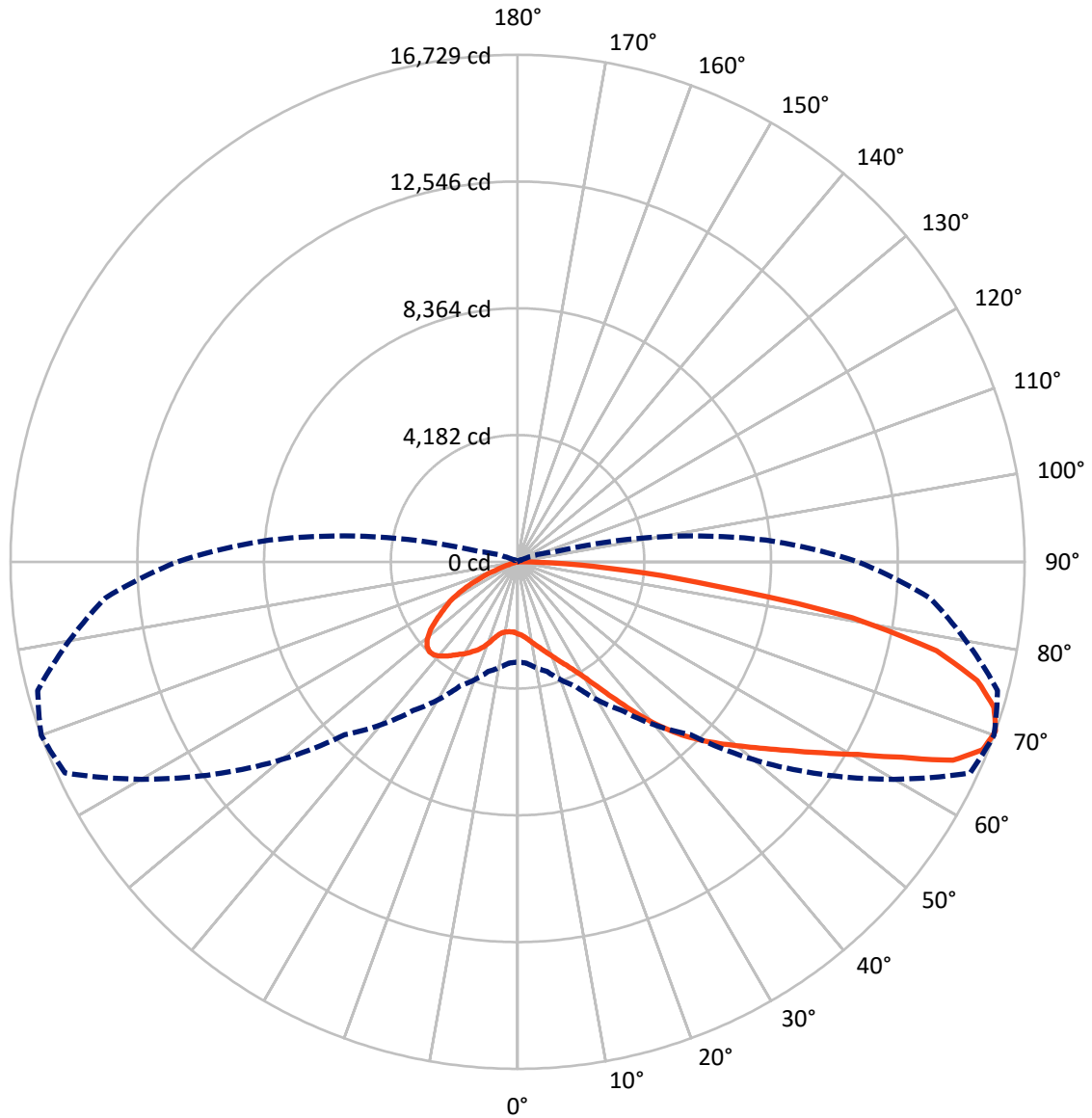
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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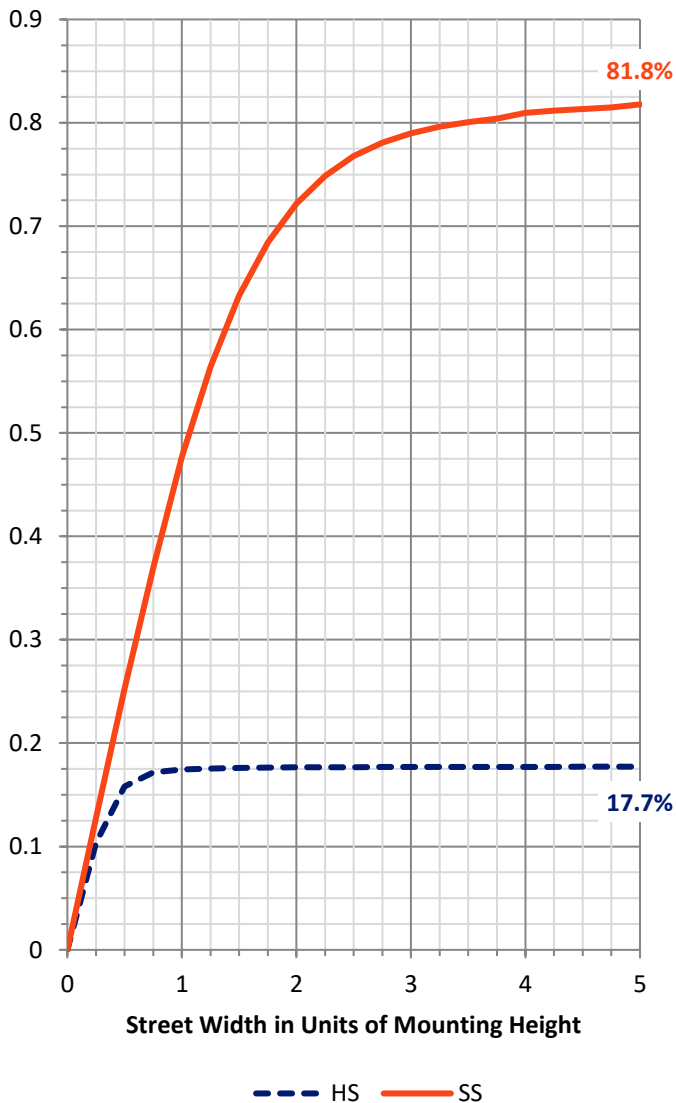
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4177.9 | 0.0 | 4177.9 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 19137.1 | 0.0 | 19137.1 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 23315.0 | 0.0 | 23315.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.3 | 1.0 |
| 10°-20° | 723.9 | 3.1 |
| 20°-30° | 1318.2 | 5.7 |
| 30°-40° | 2241.1 | 9.6 |
| 40°-50° | 3525.1 | 15.1 |
| 50°-60° | 4758.5 | 20.4 |
| 60°-70° | 5566.9 | 23.9 |
| 70°-80° | 4142.4 | 17.8 |
| 80°-90° | 808.7 | 3.5 |
| 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° | 23315.0 | 100.0 |
| 0°-180° | 23315.0 | 100.0 |

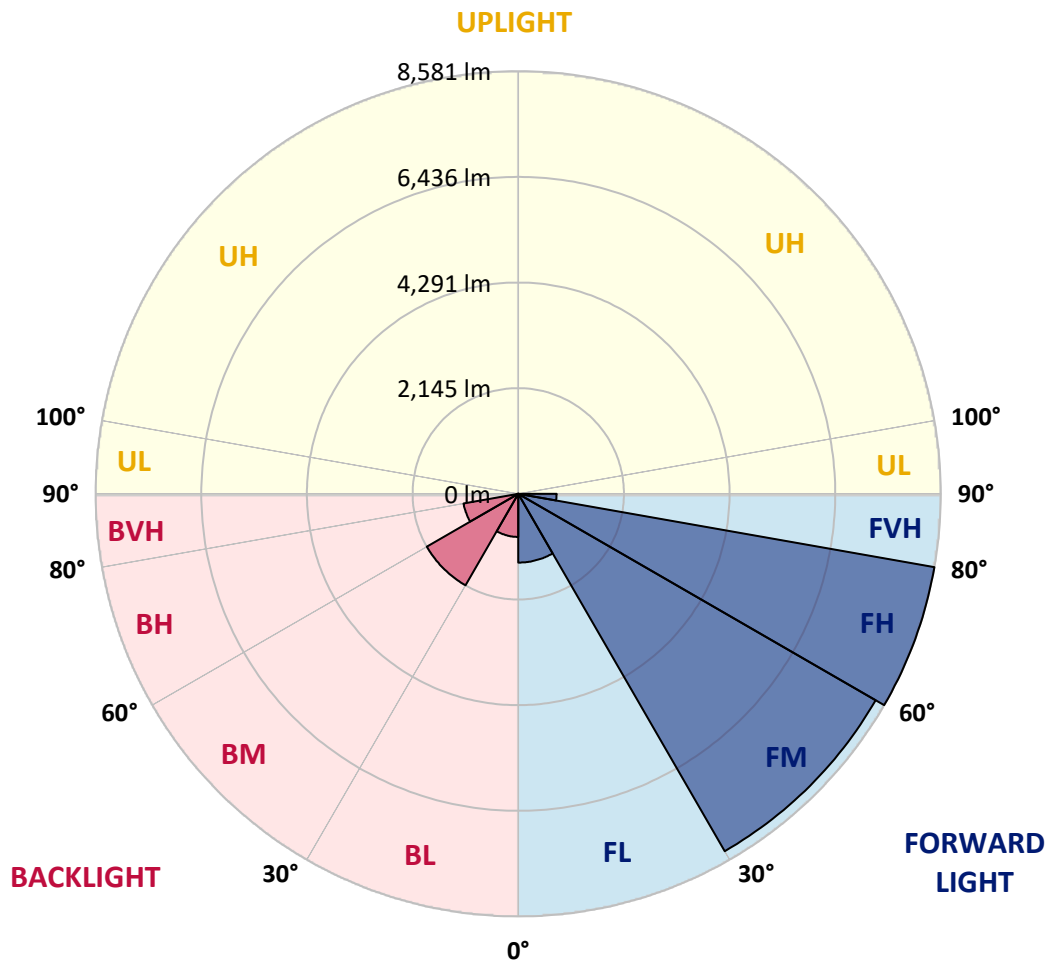


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1396.7 | 6.0 | | | |
| FM (30°-60°) | 8380.4 | 35.9 | | | |
| FH (60°-80°) | 8581.0 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 779.0 | 3.3 | | | G5 |
| BL (0°-30°) | 875.7 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2144.2 | 9.2 | B2/2500 | | |
| BH (60°-80°) | 1128.3 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 29.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 |
| 2.5° | 2516.5 | 2514.5 | 2518.4 | 2508.6 | 2514.5 | 2495.8 | 2479.1 | 2455.6 | 2419.3 | 2406.5 | 2381.9 |
| 5° | 2639.2 | 2641.1 | 2640.2 | 2633.3 | 2624.5 | 2604.8 | 2571.4 | 2539.0 | 2495.8 | 2475.2 | 2427.1 |
| 7.5° | 2744.2 | 2745.2 | 2749.1 | 2747.2 | 2742.3 | 2716.7 | 2686.3 | 2645.1 | 2593.0 | 2566.5 | 2500.7 |
| 10° | 2827.7 | 2826.7 | 2832.6 | 2841.4 | 2861.1 | 2841.4 | 2801.2 | 2767.8 | 2711.8 | 2676.5 | 2595.0 |
| 12.5° | 2882.7 | 2875.8 | 2892.5 | 2917.0 | 2952.4 | 2955.3 | 2928.8 | 2894.5 | 2845.4 | 2804.1 | 2712.8 |
| 15° | 2908.2 | 2905.3 | 2935.7 | 2986.8 | 3037.8 | 3054.5 | 3050.6 | 3025.0 | 2988.7 | 2947.5 | 2848.3 |
| 17.5° | 2968.1 | 2967.1 | 2987.7 | 3047.6 | 3107.5 | 3149.7 | 3192.9 | 3189.0 | 3155.6 | 3126.2 | 3023.1 |
| 20° | 3065.3 | 3067.3 | 3067.3 | 3119.3 | 3185.1 | 3259.7 | 3345.1 | 3371.6 | 3345.1 | 3327.5 | 3228.3 |
| 22.5° | 3184.1 | 3175.3 | 3169.4 | 3212.6 | 3293.1 | 3397.2 | 3517.9 | 3567.0 | 3563.1 | 3545.4 | 3485.5 |
| 25° | 3351.0 | 3331.4 | 3289.2 | 3343.2 | 3442.3 | 3564.1 | 3705.5 | 3787.9 | 3794.8 | 3799.7 | 3842.9 |
| 27.5° | 3616.1 | 3615.1 | 3543.5 | 3547.4 | 3615.1 | 3756.5 | 3929.3 | 4071.7 | 4091.3 | 4146.3 | 4294.6 |
| 30° | 4150.2 | 4096.2 | 4013.8 | 3882.2 | 3859.6 | 3993.1 | 4199.3 | 4417.3 | 4473.3 | 4641.2 | 4820.8 |
| 32.5° | 4650.0 | 4609.7 | 4551.8 | 4399.6 | 4214.1 | 4263.1 | 4497.8 | 4820.8 | 4968.1 | 5302.9 | 5466.9 |
| 35° | 5079.1 | 5058.4 | 5015.2 | 4924.9 | 4757.0 | 4630.4 | 4822.8 | 5269.5 | 5579.8 | 6070.7 | 6214.1 |
| 37.5° | 5498.3 | 5482.6 | 5454.1 | 5374.6 | 5269.5 | 5080.0 | 5200.8 | 5798.7 | 6303.4 | 6878.8 | 6952.4 |
| 40° | 5866.5 | 5861.6 | 5886.1 | 5837.0 | 5790.9 | 5673.1 | 5637.7 | 6357.4 | 7059.4 | 7666.2 | 7648.5 |
| 42.5° | 6188.5 | 6180.7 | 6300.5 | 6235.7 | 6290.6 | 6245.5 | 6171.8 | 6879.7 | 7744.7 | 8312.3 | 8252.4 |
| 45° | 6403.6 | 6399.6 | 6526.3 | 6591.1 | 6746.2 | 6779.6 | 6735.4 | 7421.7 | 8369.2 | 8904.3 | 8772.7 |
| 47.5° | 6567.5 | 6556.7 | 6626.4 | 6875.8 | 7162.5 | 7230.3 | 7315.7 | 8026.5 | 8956.3 | 9427.6 | 9268.6 |
| 50° | 6656.9 | 6660.8 | 6804.1 | 7140.9 | 7565.1 | 7721.2 | 7900.9 | 8745.2 | 9553.3 | 9988.2 | 9725.1 |
| 52.5° | 6714.8 | 6757.0 | 6968.1 | 7373.6 | 7952.9 | 8226.8 | 8433.0 | 9521.9 | 10229.8 | 10517.5 | 10236.7 |
| 55° | 6756.0 | 6830.7 | 7041.8 | 7499.3 | 8195.4 | 8649.0 | 8950.4 | 10340.7 | 10999.5 | 11181.2 | 10778.6 |
| 57.5° | 6490.0 | 6569.5 | 6924.9 | 7521.9 | 8395.7 | 9005.4 | 9543.5 | 11217.5 | 11899.9 | 11916.6 | 11282.3 |
| 60° | 6055.0 | 6104.1 | 6558.7 | 7383.4 | 8367.2 | 9333.4 | 10271.0 | 12256.3 | 12903.3 | 12894.5 | 11904.8 |
| 62.5° | 5605.3 | 5630.8 | 6092.3 | 7018.2 | 8206.2 | 9454.1 | 10964.2 | 13652.5 | 14208.2 | 13946.0 | 12539.1 |
| 65° | 5011.3 | 5039.8 | 5516.0 | 6415.3 | 7758.5 | 9372.6 | 11557.2 | 15116.4 | 15783.1 | 15364.8 | 13152.7 |
| 67.5° | 4237.6 | 4291.6 | 4731.5 | 5567.0 | 7030.0 | 8942.6 | 12008.9 | 16119.8 | 16548.9 | 16182.7 | 13582.8 |
| 70° | 3304.9 | 3353.0 | 3745.7 | 4533.2 | 5979.4 | 8065.8 | 12219.0 | 16473.3 | 16728.6 | 16392.8 | 13655.4 |
| 72.5° | 2353.5 | 2388.8 | 2562.6 | 3221.4 | 4535.1 | 6740.3 | 12019.7 | 16303.4 | 16436.0 | 16016.7 | 13162.5 |
| 75° | 1791.9 | 1763.4 | 1866.5 | 2115.9 | 2652.9 | 4736.4 | 10807.1 | 15535.6 | 15671.1 | 15208.7 | 12201.3 |
| 77.5° | 1297.0 | 1274.4 | 1398.1 | 1591.6 | 1850.8 | 2226.8 | 7596.5 | 13958.8 | 14133.6 | 13755.6 | 10569.5 |
| 80° | 762.9 | 795.3 | 959.3 | 1142.9 | 1349.0 | 1483.6 | 3581.7 | 10428.1 | 11197.9 | 11043.7 | 7705.5 |
| 82.5° | 145.3 | 157.1 | 398.6 | 605.8 | 743.3 | 786.5 | 1355.9 | 5735.9 | 6574.4 | 6742.3 | 4070.7 |
| 85° | 95.2 | 103.1 | 238.6 | 243.5 | 237.6 | 304.4 | 547.9 | 2763.9 | 3549.3 | 3589.6 | 1787.9 |
| 87.5° | 44.2 | 49.1 | 72.7 | 105.1 | 133.5 | 160.0 | 180.7 | 742.3 | 1096.7 | 1122.2 | 353.5 |
| 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° | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 | 2382.9 |
| 2.5° | 2369.2 | 2359.4 | 2338.7 | 2321.1 | 2309.3 | 2302.4 | 2263.1 | 2256.3 | 2241.5 | 2230.7 | 2225.8 |
| 5° | 2404.5 | 2385.9 | 2335.8 | 2301.4 | 2257.2 | 2220.9 | 2155.1 | 2121.8 | 2102.1 | 2081.5 | 2076.6 |
| 7.5° | 2464.4 | 2434.0 | 2355.4 | 2293.6 | 2218.0 | 2152.2 | 2059.9 | 2006.9 | 1969.6 | 1940.1 | 1937.2 |
| 10° | 2548.9 | 2500.7 | 2387.8 | 2297.5 | 2188.5 | 2098.2 | 1983.3 | 1897.9 | 1845.9 | 1807.6 | 1805.6 |
| 12.5° | 2653.9 | 2588.1 | 2448.7 | 2328.9 | 2188.5 | 2063.8 | 1927.4 | 1813.5 | 1736.9 | 1684.8 | 1678.9 |
| 15° | 2785.5 | 2706.9 | 2549.8 | 2402.6 | 2236.6 | 2077.6 | 1889.1 | 1735.9 | 1624.0 | 1540.5 | 1536.6 |
| 17.5° | 2949.4 | 2868.0 | 2714.8 | 2548.9 | 2327.9 | 2099.2 | 1860.6 | 1644.6 | 1482.6 | 1383.4 | 1372.6 |
| 20° | 3156.6 | 3118.3 | 2961.2 | 2718.7 | 2422.2 | 2110.0 | 1796.8 | 1517.9 | 1298.0 | 1170.4 | 1153.7 |
| 22.5° | 3453.1 | 3431.5 | 3206.7 | 2864.0 | 2476.2 | 2076.6 | 1691.7 | 1315.7 | 1048.6 | 911.1 | 898.4 |
| 25° | 3824.3 | 3749.6 | 3426.6 | 2972.0 | 2486.0 | 2003.0 | 1514.0 | 1057.4 | 759.0 | 622.5 | 617.6 |
| 27.5° | 4211.1 | 4075.6 | 3617.1 | 3047.6 | 2457.5 | 1854.7 | 1264.6 | 752.1 | 473.2 | 385.9 | 386.8 |
| 30° | 4699.1 | 4441.8 | 3833.1 | 3119.3 | 2391.8 | 1653.4 | 937.7 | 468.3 | 297.5 | 244.5 | 237.6 |
| 32.5° | 5261.7 | 4905.3 | 4049.1 | 3147.8 | 2269.0 | 1368.7 | 595.0 | 287.7 | 186.5 | 159.1 | 156.1 |
| 35° | 5918.5 | 5478.7 | 4327.0 | 3150.7 | 2066.8 | 1017.2 | 356.4 | 168.9 | 126.7 | 127.6 | 129.6 |
| 37.5° | 6603.9 | 6086.4 | 4665.7 | 3115.4 | 1814.4 | 636.2 | 201.3 | 109.0 | 109.0 | 129.6 | 136.5 |
| 40° | 7224.4 | 6667.7 | 5025.1 | 3035.8 | 1459.0 | 370.2 | 113.9 | 94.3 | 100.1 | 121.7 | 127.6 |
| 42.5° | 7793.8 | 7170.4 | 5354.0 | 2912.1 | 1041.7 | 200.3 | 98.2 | 85.4 | 90.3 | 100.1 | 103.1 |
| 45° | 8286.7 | 7607.3 | 5590.6 | 2712.8 | 632.3 | 123.7 | 90.3 | 77.6 | 76.6 | 83.5 | 85.4 |
| 47.5° | 8711.9 | 7998.1 | 5750.6 | 2428.1 | 330.9 | 117.8 | 87.4 | 70.7 | 65.8 | 68.7 | 69.7 |
| 50° | 9147.8 | 8287.7 | 5810.5 | 2028.5 | 169.9 | 110.9 | 81.5 | 65.8 | 60.9 | 69.7 | 70.7 |
| 52.5° | 9588.6 | 8722.7 | 5818.4 | 1469.8 | 134.5 | 100.1 | 74.6 | 60.9 | 58.9 | 77.6 | 80.5 |
| 55° | 10017.7 | 9039.8 | 5705.5 | 851.3 | 130.6 | 93.3 | 67.7 | 55.0 | 56.9 | 58.9 | 58.9 |
| 57.5° | 10470.3 | 9419.8 | 5467.9 | 372.1 | 126.7 | 85.4 | 62.8 | 50.1 | 42.2 | 47.1 | 49.1 |
| 60° | 10955.4 | 9747.7 | 4989.7 | 215.0 | 120.8 | 76.6 | 54.0 | 41.2 | 35.3 | 35.3 | 38.3 |
| 62.5° | 11445.3 | 9988.2 | 4207.2 | 157.1 | 114.9 | 71.7 | 47.1 | 36.3 | 29.5 | 29.5 | 31.4 |
| 65° | 11763.4 | 9828.2 | 3245.0 | 139.4 | 110.9 | 64.8 | 41.2 | 31.4 | 23.6 | 22.6 | 24.5 |
| 67.5° | 11705.5 | 9215.5 | 2285.7 | 124.7 | 101.1 | 58.9 | 36.3 | 27.5 | 20.6 | 16.7 | 17.7 |
| 70° | 11225.4 | 8214.1 | 1267.6 | 116.8 | 90.3 | 54.0 | 32.4 | 24.5 | 16.7 | 10.8 | 10.8 |
| 72.5° | 10340.7 | 6902.3 | 487.0 | 105.1 | 80.5 | 47.1 | 29.5 | 23.6 | 14.7 | 5.9 | 4.9 |
| 75° | 9020.2 | 5252.8 | 175.7 | 88.4 | 66.8 | 43.2 | 28.5 | 24.5 | 13.7 | 2.0 | 0.0 |
| 77.5° | 7072.2 | 2939.6 | 104.1 | 65.8 | 50.1 | 37.3 | 30.4 | 24.5 | 7.9 | 0.0 | 0.0 |
| 80° | 3798.7 | 1061.4 | 73.6 | 42.2 | 33.4 | 27.5 | 27.5 | 19.6 | 3.9 | 0.0 | 0.0 |
| 82.5° | 1576.8 | 238.6 | 47.1 | 23.6 | 22.6 | 17.7 | 17.7 | 8.8 | 1.0 | 0.0 | 0.0 |
| 85° | 446.7 | 69.7 | 21.6 | 12.8 | 12.8 | 9.8 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 38.3 | 14.7 | 5.9 | 6.9 | 4.9 | 2.0 | 0.0 | 0.0 | 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 | 0.0 |

(END OF REPORT)