

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: P285749

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ-7030**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C175-D-UNV-T2-BZ-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47989 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

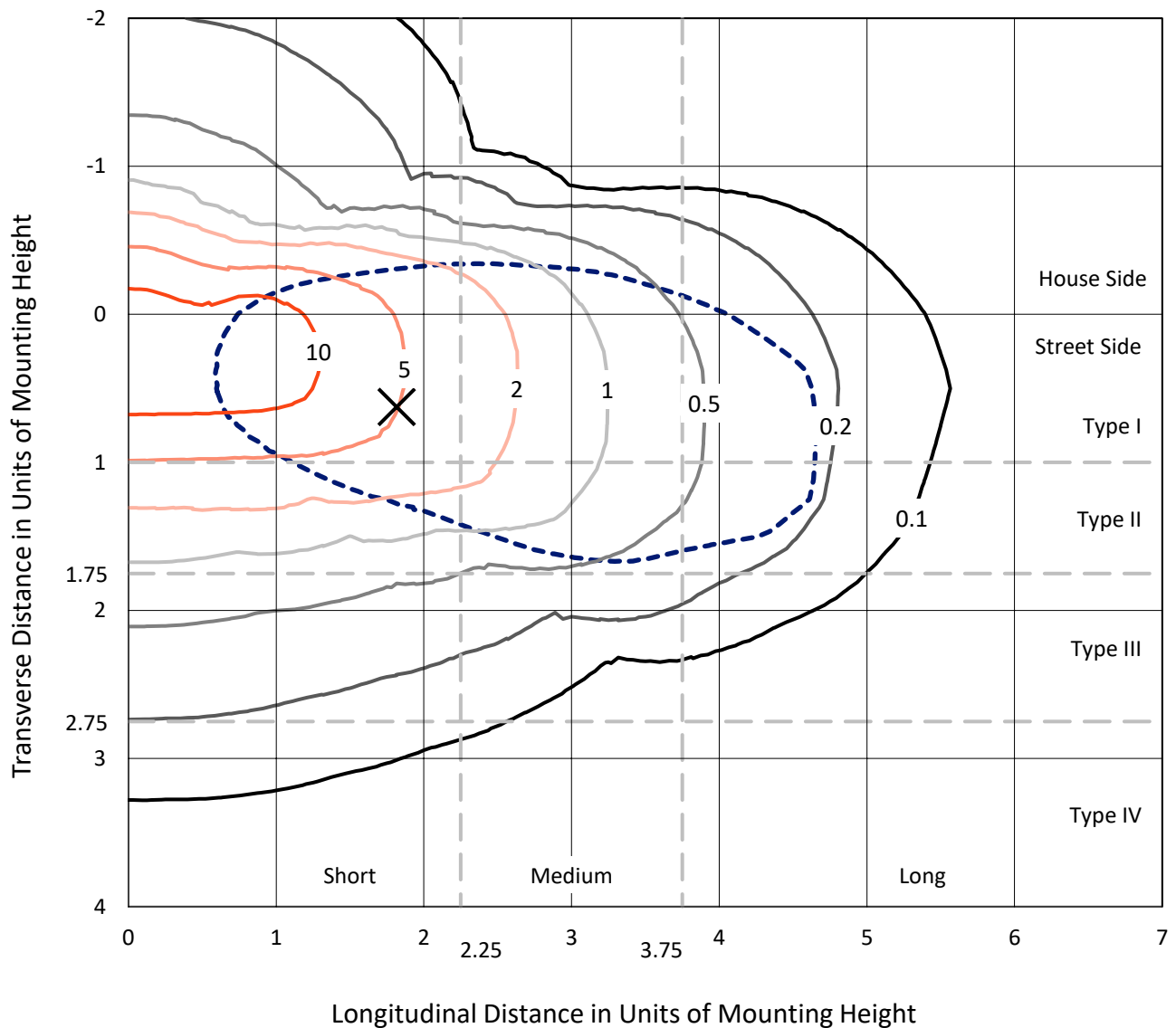
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

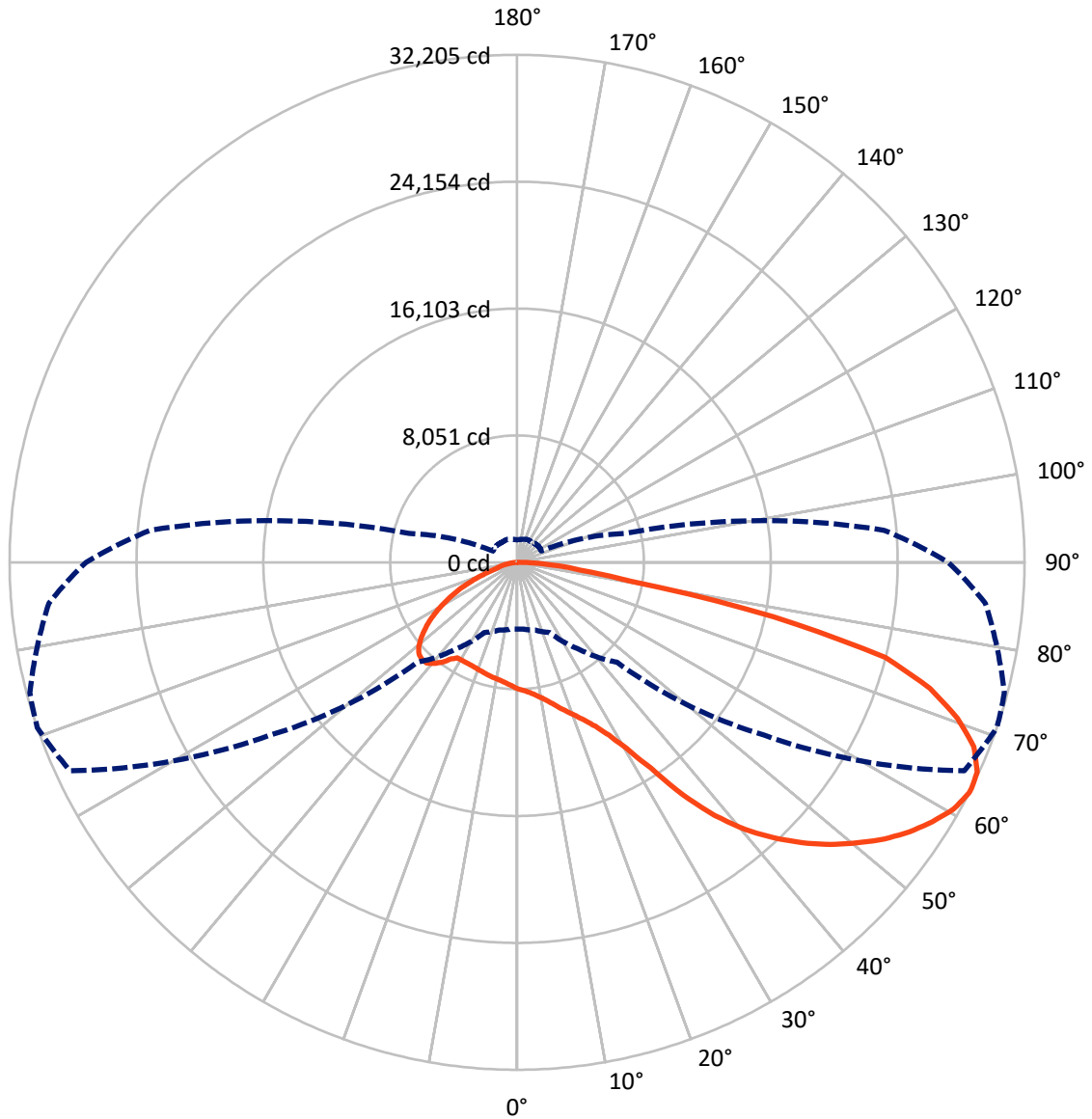
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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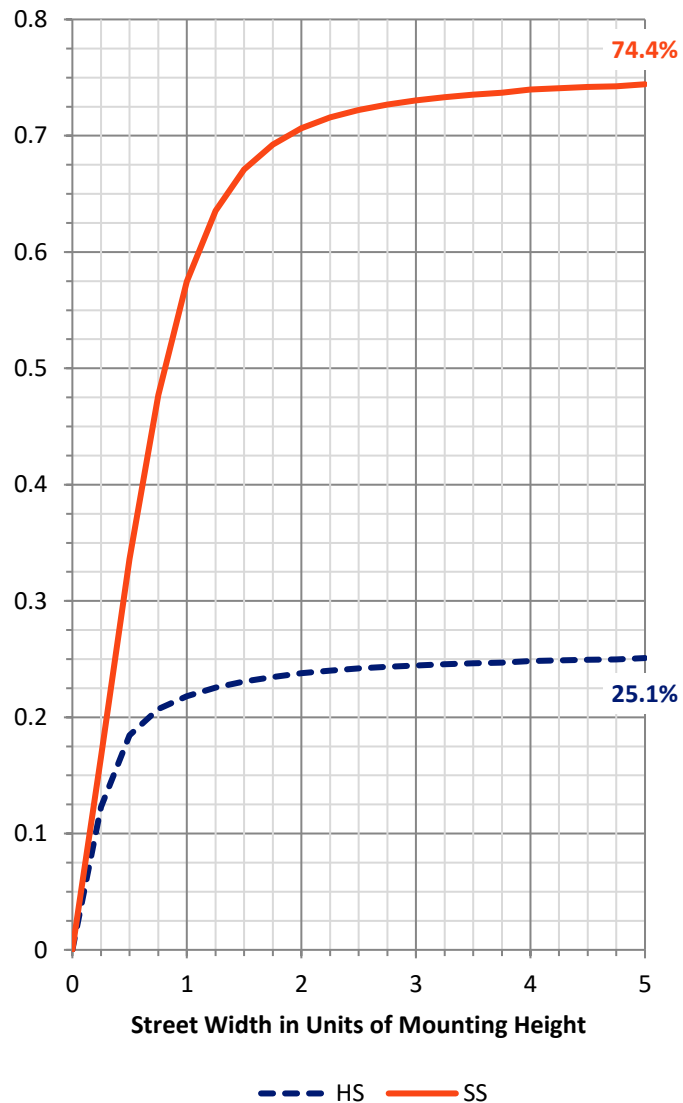
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12255.0	0.0	12255.0
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	35734.0	0.0	35734.0
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	47989.0	0.0	47989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.1	1.6
10°-20°	2372.3	4.9
20°-30°	4021.6	8.4
30°-40°	6061.4	12.6
40°-50°	8326.9	17.4
50°-60°	9681.0	20.2
60°-70°	9552.4	19.9
70°-80°	6108.0	12.7
80°-90°	1090.3	2.3
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°	47989.0	100.0
0°-180°	47989.0	100.0

**Coefficient of Utilization**

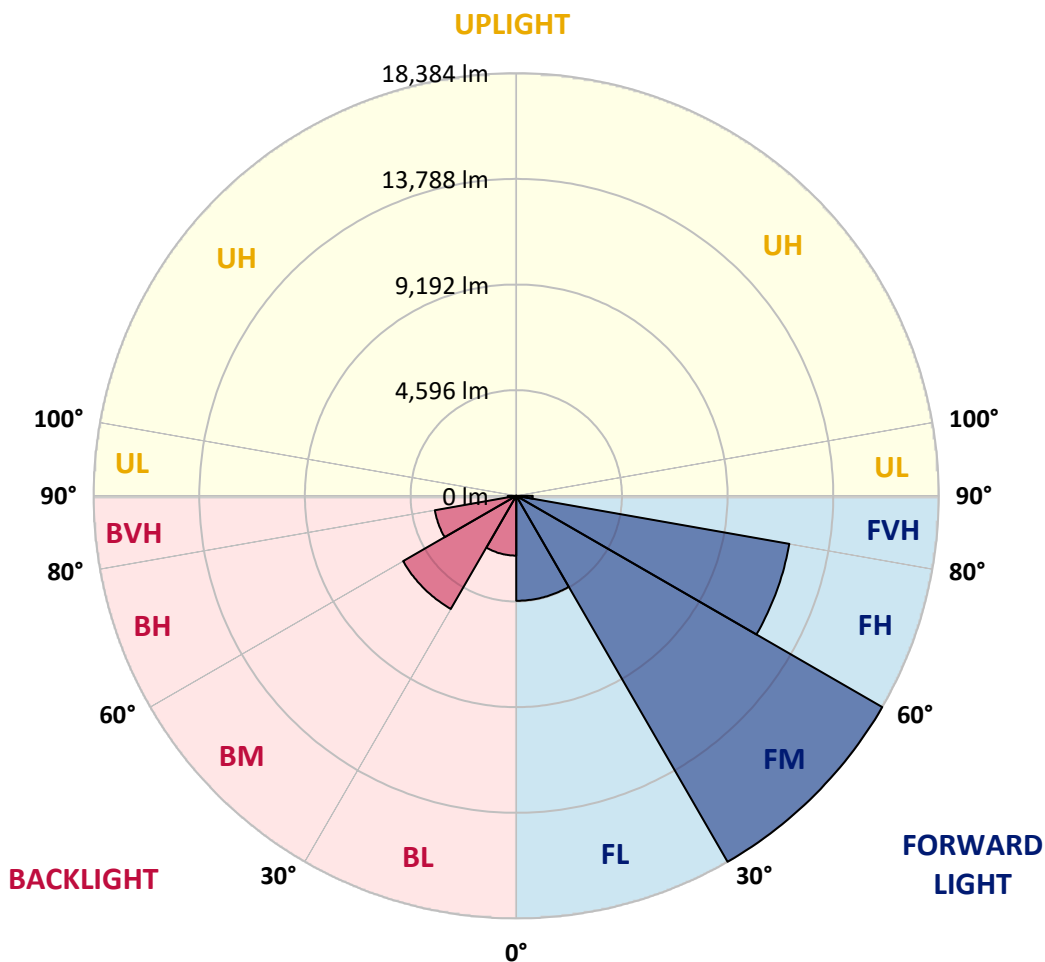


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4567.4	9.5			
FM (30°-60°)	18383.7	38.3			
FH (60°-80°)	12062.4	25.1			G5
FVH (80°-90°)	720.5	1.5			G4/750
BL (0°-30°)	2601.6	5.4	B4/5000		
BM (30°-60°)	5685.6	11.8	B4/8500		
BH (60°-80°)	3598.0	7.5	B4/5000		G4/5000
BVH (80°-90°)	369.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4
2.5°	8577.1	8560.7	8540.6	8505.9	8465.7	8418.2	8368.8	8257.4	8142.2	8105.7	8027.1
5°	9048.6	9017.5	8991.9	8959.0	8882.3	8785.4	8655.7	8473.0	8293.9	8237.3	8074.6
7.5°	9465.2	9430.4	9384.8	9340.9	9256.9	9132.6	8957.2	8725.1	8509.5	8410.8	8145.9
10°	9836.1	9803.2	9779.5	9730.1	9662.5	9512.7	9304.4	9013.8	8763.5	8626.5	8259.2
12.5°	10247.2	10219.8	10170.5	10113.8	10024.3	9880.0	9671.6	9355.5	9088.8	8922.5	8432.8
15°	10665.7	10647.4	10559.7	10526.8	10426.3	10260.0	10075.5	9750.2	9478.0	9271.5	8681.3
17.5°	11036.6	11023.8	10969.0	10930.6	10848.4	10662.0	10472.0	10174.1	9896.4	9633.3	8957.2
20°	11274.1	11292.4	11281.5	11274.1	11268.7	11115.2	10927.0	10620.0	10340.4	10079.1	9253.2
22.5°	11495.2	11502.6	11531.8	11599.4	11696.2	11628.6	11425.8	11142.6	10857.5	10545.1	9636.9
25°	11564.7	11570.2	11683.5	11888.1	12160.4	12189.6	12023.3	11833.3	11522.7	11215.7	10163.2
27.5°	11621.3	11635.9	11778.5	12136.6	12615.4	12754.2	12693.9	12631.8	12412.5	12090.9	10870.3
30°	11604.9	11608.5	11844.2	12304.7	12977.1	13351.7	13443.1	13742.8	13687.9	13468.7	12054.4
32.5°	11303.4	11276.0	11617.7	12308.4	13260.4	13951.1	14373.2	15226.5	15549.9	15608.4	14422.5
35°	10689.4	10689.4	11201.1	12165.8	13465.0	14543.1	15433.0	17031.8	18122.7	18151.9	16673.7
37.5°	10177.8	10210.7	10784.4	11899.1	13560.0	15144.3	16648.1	19239.1	20390.3	20291.6	18553.9
40°	9668.0	9708.2	10296.6	11535.4	13503.4	15663.2	17826.7	21344.1	22301.6	22075.0	20156.4
42.5°	9103.4	9134.4	9686.3	11018.3	13307.9	16041.4	19093.0	23140.3	23902.3	23626.4	21618.2
45°	8538.8	8591.7	9088.8	10324.0	12926.0	16268.0	20178.3	24770.2	25387.8	25069.9	22948.5
47.5°	7707.4	7912.0	8491.2	9638.8	12233.5	16251.6	21141.3	26233.9	26758.3	26420.2	24147.1
50°	6017.1	6137.7	7415.0	9017.5	11319.8	15924.5	21901.4	27540.3	27989.9	27690.2	25358.6
52.5°	5465.3	5498.2	5911.2	8255.5	10307.5	15277.7	22464.2	28748.2	29186.7	28843.2	26455.0
55°	5182.1	5200.4	5403.2	6749.9	9448.7	14086.3	22720.1	29864.6	30195.3	29808.0	27383.2
57.5°	4796.5	4853.2	5136.4	5754.0	8569.8	12401.6	22389.3	30741.7	31072.4	30652.2	28271.2
60°	4511.5	4546.2	4789.2	5268.0	7552.0	10431.8	21245.5	31375.8	31821.6	31434.2	29095.3
62.5°	4230.1	4250.2	4454.8	4915.3	6676.8	8966.3	19109.4	31302.7	32205.3	32011.6	29826.2
63°	4171.6	4189.9	4394.5	4851.4	6547.0	8666.7	18659.9	31211.3	32205.3	32070.1	29917.6
65°	3912.1	3934.1	4136.9	4553.5	6004.4	7913.8	16653.6	30643.0	32090.2	32154.2	30047.3
67.5°	3526.6	3563.1	3731.2	4094.9	5189.4	6996.5	13677.0	30049.2	31264.3	31401.3	29329.2
70°	3071.6	3078.9	3281.7	3586.9	4374.4	5951.4	10543.2	28247.5	29650.8	29711.1	27650.0
72.5°	2587.4	2607.5	2790.2	3047.9	3628.9	4928.1	7537.4	24905.4	27396.0	27735.9	24837.8
75°	2258.5	2274.9	2428.4	2609.3	3013.1	3884.7	5041.4	18161.1	24152.6	24530.9	21484.8
77.5°	1891.2	1902.2	2063.0	2187.2	2448.5	2930.9	3480.9	9582.1	16635.3	18648.9	16785.1
80°	1346.7	1348.5	1509.3	1606.2	1774.3	1801.7	2212.8	5099.9	7320.0	9459.7	11093.2
82.5°	292.4	420.3	632.2	794.9	889.9	749.2	1089.0	2793.9	4043.7	4827.6	6013.5
85°	126.1	173.6	334.4	367.3	244.9	270.4	442.2	1489.2	2311.5	2751.8	3095.4
87.5°	23.8	31.1	85.9	115.1	71.3	74.9	89.5	476.9	809.5	950.2	1059.8
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°	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4	8045.4
2.5°	7979.6	7957.7	7884.6	7835.3	7804.2	7764.0	7712.8	7645.2	7625.1	7577.6	7616.0
5°	7985.1	7926.6	7773.1	7661.7	7561.2	7473.5	7371.1	7274.3	7237.7	7173.8	7199.4
7.5°	8010.7	7912.0	7674.5	7504.5	7354.7	7235.9	7093.4	6974.6	6932.6	6859.5	6872.3
10°	8078.3	7924.8	7597.7	7391.2	7184.8	7011.2	6844.9	6682.3	6609.2	6545.2	6576.3
12.5°	8197.1	7972.3	7563.0	7298.0	7024.0	6812.0	6569.0	6360.7	6258.3	6176.1	6203.5
15°	8376.1	8063.7	7522.8	7164.7	6833.9	6558.0	6260.2	5997.0	5881.9	5818.0	5849.0
17.5°	8558.9	8197.1	7499.0	7002.0	6605.5	6247.4	5960.5	5712.0	5501.9	5454.3	5472.6
20°	8774.5	8334.1	7517.3	6830.3	6336.9	5913.0	5573.1	5406.8	5134.6	5039.6	5045.0
22.5°	9059.5	8547.9	7533.8	6662.2	6017.1	5543.9	5147.4	4982.9	4721.6	4553.5	4560.8
25°	9468.8	8812.8	7572.1	6506.8	5702.9	5138.2	4679.6	4405.5	4242.9	4029.1	4030.9
27.5°	10029.8	9176.5	7648.9	6360.7	5368.5	4672.3	4111.3	3804.3	3661.8	3521.1	3502.8
30°	10987.3	9777.6	7762.2	6199.9	4972.0	4109.5	3512.0	3243.4	3122.8	3007.7	2994.9
32.5°	13008.2	11237.6	7919.3	5997.0	4544.4	3470.0	2982.1	2770.1	2600.2	2486.9	2503.3
35°	15082.1	13066.7	8584.4	5755.8	4062.0	2910.8	2583.7	2320.6	2103.2	2015.5	2020.9
37.5°	16858.2	14724.0	9583.9	5494.5	3528.4	2550.8	2183.6	1929.6	1756.0	1712.1	1767.0
40°	18336.5	16085.3	10386.1	5218.6	2967.5	2247.5	1779.7	1640.9	1529.4	1516.6	1566.0
42.5°	19734.3	17315.0	11060.4	4900.7	2444.9	1856.5	1478.2	1511.1	1494.7	1492.9	1500.2
45°	21004.3	18455.2	11436.8	4427.4	2075.8	1520.3	1396.0	1520.3	1547.7	1544.0	1523.9
47.5°	22160.9	19496.8	11692.6	3742.2	1757.8	1425.3	1441.7	1525.8	1576.9	1586.1	1564.1
50°	23361.4	20514.6	11732.8	2912.6	1631.7	1500.2	1481.9	1470.9	1564.1	1562.3	1564.1
52.5°	24434.0	21388.0	11294.2	2264.0	1697.5	1578.7	1514.8	1450.8	1503.8	1505.7	1469.1
55°	25241.7	22104.3	10543.2	1984.4	1752.3	1644.5	1609.8	1481.9	1449.0	1427.1	1439.9
57.5°	26074.9	22743.8	9523.6	1858.3	1768.8	1659.1	1693.9	1489.2	1439.9	1339.4	1332.1
60°	26877.1	23260.9	8315.8	1774.3	1748.7	1651.8	1640.9	1545.9	1450.8	1301.0	1249.8
62.5°	27364.9	23374.2	7080.6	1692.0	1710.3	1640.9	1582.4	1587.9	1522.1	1439.9	1428.9
63°	27421.6	23335.8	6844.9	1671.9	1701.2	1639.0	1582.4	1591.5	1522.1	1472.8	1474.6
65°	27350.3	22890.0	5920.3	1586.1	1668.3	1609.8	1558.6	1513.0	1399.7	1430.7	1467.3
67.5°	26550.0	21431.8	4551.7	1447.2	1595.2	1562.3	1487.4	1374.1	1271.8	1251.7	1273.6
70°	24388.3	19043.6	3225.1	1233.4	1463.6	1502.0	1469.1	1299.2	1196.9	1178.6	1222.4
72.5°	21388.0	16534.8	2214.6	986.7	1226.1	1397.8	1388.7	1251.7	1160.3	1107.3	1129.2
75°	18003.9	13337.1	1547.7	831.4	944.7	1259.0	1317.4	1211.5	1142.0	1092.7	1085.4
77.5°	13861.5	10073.6	1217.0	710.8	780.2	1019.6	1211.5	1202.3	1288.2	1520.3	1469.1
80°	9443.2	6698.7	877.1	533.6	621.3	714.5	1043.4	1240.7	1629.9	957.5	939.2
82.5°	5489.1	3935.9	548.2	354.5	370.9	486.0	654.2	1310.1	1090.9	431.2	544.5
85°	2651.3	1714.0	274.1	244.9	169.9	182.7	303.3	1220.6	772.9	191.9	38.4
87.5°	846.0	416.6	29.2	21.9	25.6	36.5	144.4	745.5	455.0	164.5	23.8
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)