

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: P285834

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
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-T4-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48569 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

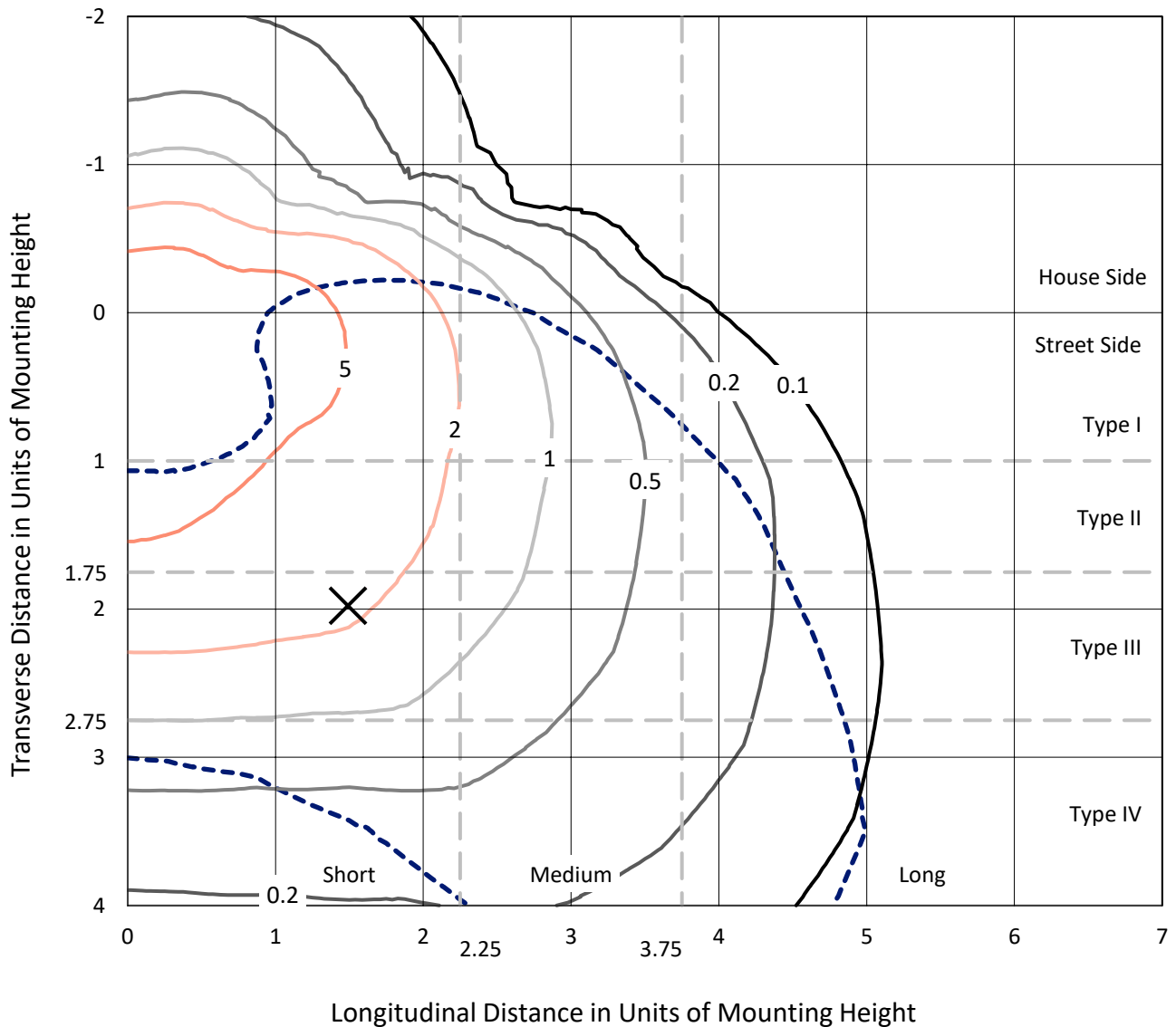
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

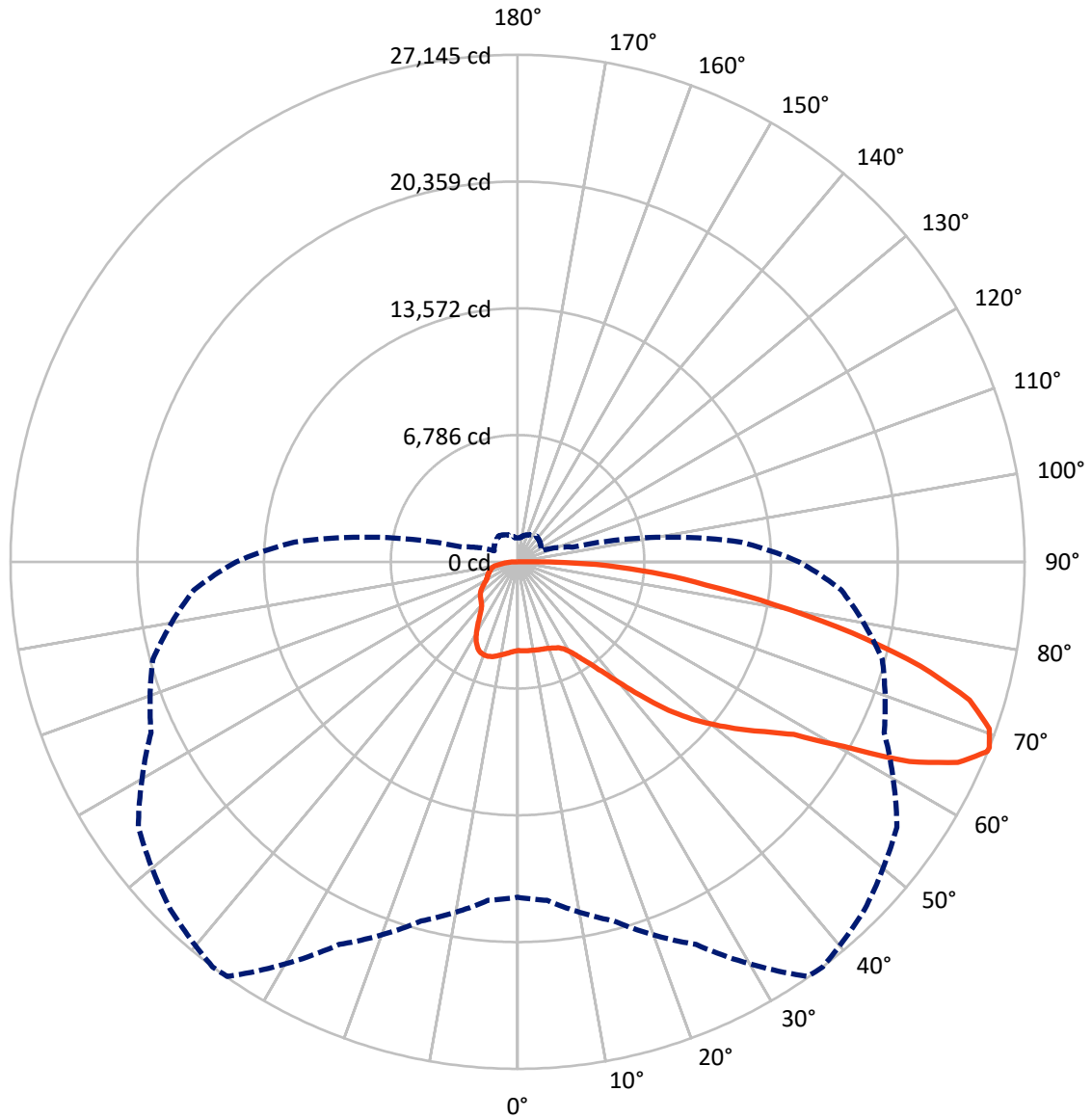
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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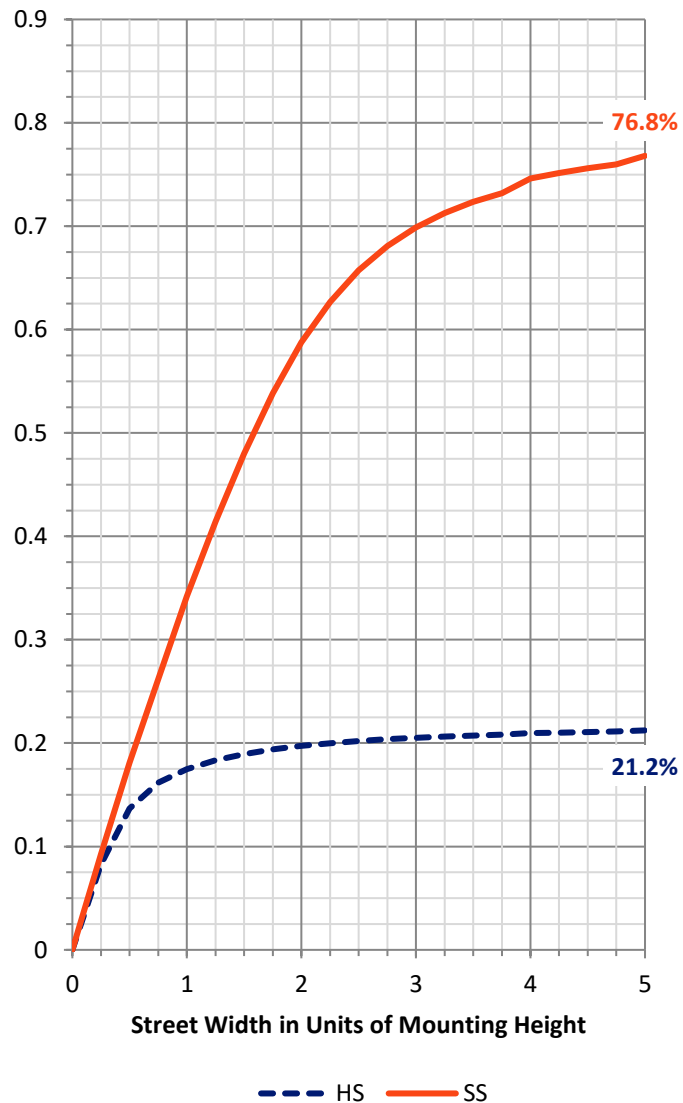
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10487.4	0.0	10487.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	38081.6	0.0	38081.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	48569.0	0.0	48569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.2	0.9
10°-20°	1433.6	3.0
20°-30°	2448.6	5.0
30°-40°	3901.1	8.0
40°-50°	6765.8	13.9
50°-60°	9807.4	20.2
60°-70°	12368.2	25.5
70°-80°	9164.8	18.9
80°-90°	2218.3	4.6
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°	48569.0	100.0
0°-180°	48569.0	100.0

**Coefficient of Utilization**



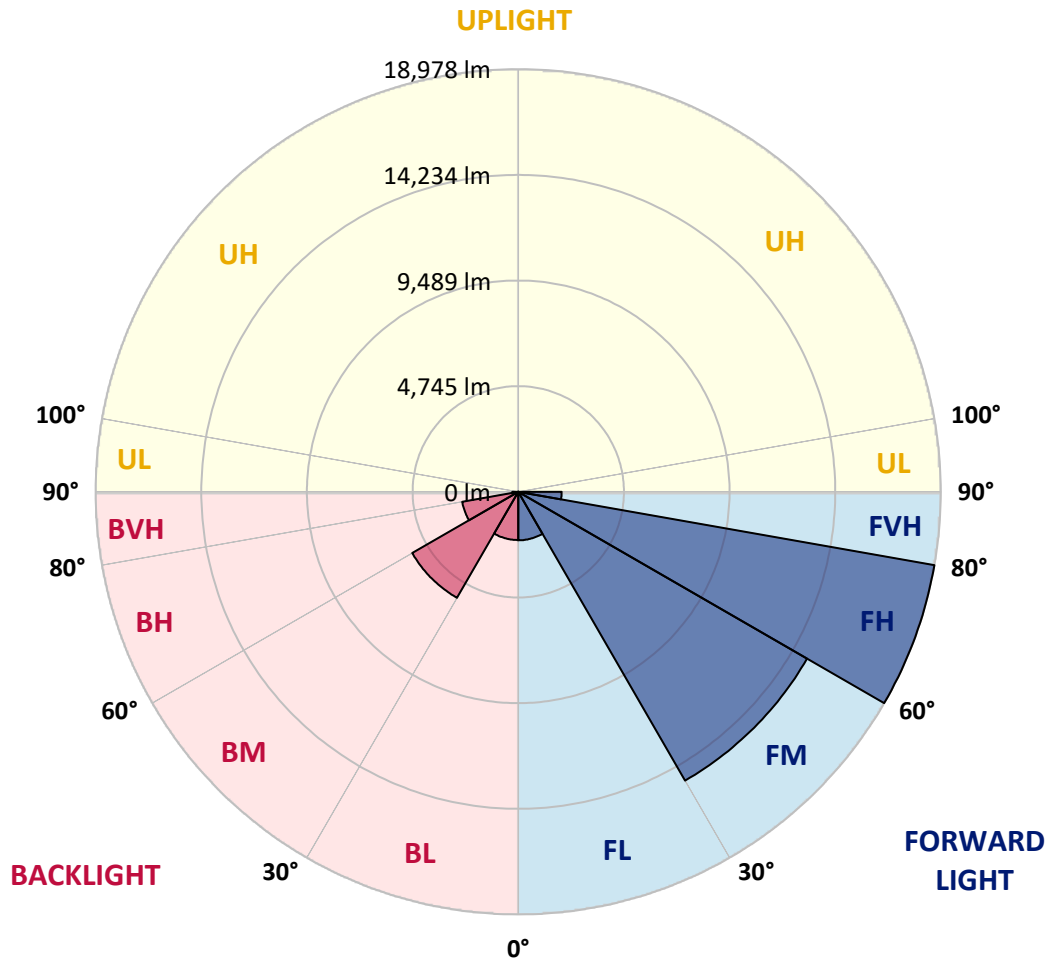
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.3	4.5			
FM (30°-60°)	14976.6	30.8			
FH (60°-80°)	18978.2	39.1			G5
FVH (80°-90°)	1949.4	4.0			G5
BL (0°-30°)	2166.1	4.5	B3/2500		
BM (30°-60°)	5497.8	11.3	B4/8500		
BH (60°-80°)	2554.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	268.9	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6
2.5°	4747.4	4760.5	4764.2	4756.7	4764.2	4771.6	4754.9	4753.0	4745.6	4715.8	4719.5
5°	4749.3	4766.0	4767.9	4762.3	4775.3	4782.8	4775.3	4767.9	4760.5	4717.7	4727.0
7.5°	4749.3	4762.3	4766.0	4762.3	4780.9	4794.0	4794.0	4799.5	4799.5	4751.2	4758.6
10°	4732.5	4743.7	4749.3	4758.6	4790.2	4808.8	4820.0	4846.1	4861.0	4827.5	4829.3
12.5°	4656.2	4665.5	4684.2	4738.1	4812.6	4834.9	4866.5	4913.1	4950.3	4950.3	4954.0
15°	4596.7	4606.0	4641.4	4713.9	4827.5	4857.2	4918.6	4996.8	5065.7	5102.9	5132.7
17.5°	4611.6	4622.7	4674.9	4736.3	4849.8	4879.6	4967.0	5080.6	5194.1	5274.1	5333.7
20°	4658.1	4665.5	4725.1	4795.8	4916.8	4937.3	5022.9	5162.4	5320.6	5452.8	5549.5
22.5°	4790.2	4786.5	4834.9	4862.8	4987.5	5006.1	5104.7	5248.0	5452.8	5651.9	5793.3
25°	4900.0	4916.8	4955.9	4978.2	5080.6	5097.3	5220.1	5378.3	5614.7	5871.5	6098.5
27.5°	5021.0	5035.9	5075.0	5125.2	5268.5	5277.8	5363.4	5558.8	5821.2	6135.7	6498.6
30°	5294.6	5292.7	5331.8	5385.8	5579.3	5596.1	5676.1	5877.1	6120.9	6513.5	6950.9
32.5°	5767.3	5763.5	5769.1	5843.6	6053.9	6092.9	6195.3	6461.4	6766.6	7146.3	7632.0
35°	6736.9	6697.8	6623.3	6563.8	6682.9	6727.5	6950.9	7280.3	7825.5	8571.8	9172.9
37.5°	8339.2	8277.8	8026.5	7686.0	7548.3	7542.7	7699.0	8199.6	9048.2	10544.5	11087.9
40°	9874.5	9876.4	9535.8	9074.3	8644.4	8622.1	8532.7	9152.4	10371.4	12396.2	12651.1
42.5°	11329.8	11320.5	10924.1	10501.7	9988.0	9921.0	9660.5	10136.9	11692.7	13920.3	13970.6
45°	12641.8	12612.1	12185.9	11914.2	11473.1	11339.1	10993.0	11143.7	12930.3	15143.0	14966.2
47.5°	13909.2	13879.4	13347.2	13084.8	12697.7	12586.0	12219.4	12286.4	14113.9	16161.0	15772.0
50°	15217.5	15208.2	14437.7	14182.7	13771.5	13724.9	13503.5	13551.9	15349.6	17007.8	16522.0
52.5°	16767.7	16527.6	15662.2	15174.7	14882.5	14880.6	14633.1	14757.8	16715.6	17763.3	17043.1
55°	18431.4	18128.1	17242.2	16540.6	16038.2	16045.6	15660.4	15861.4	17915.9	18438.9	17541.9
57.5°	19618.8	19555.5	19291.2	18589.6	17551.2	17428.3	16836.5	16994.7	18969.3	19138.6	17901.0
60°	20726.1	20995.9	21172.7	20949.4	20426.4	20071.0	18429.6	18193.2	19897.9	19754.6	18089.0
62.5°	21423.9	21563.5	22387.9	22695.0	23515.7	23543.6	21580.3	19644.8	20688.8	20141.7	18172.7
65°	20655.3	20861.9	22227.9	23428.2	25769.4	25903.4	25075.2	22066.0	21319.7	20275.7	18014.6
67.5°	18511.5	18727.3	20368.7	22830.9	27016.3	27107.4	26247.7	24578.3	21634.2	20247.8	17551.2
68°	17962.5	18193.2	19905.3	22605.7	27101.9	27144.7	26294.2	24786.8	21654.7	20216.1	17400.4
70°	15690.2	15917.2	17651.7	21196.9	26763.2	26791.1	26000.1	25006.4	21548.6	19944.4	16408.5
72.5°	12325.5	12554.4	13922.2	17981.1	25062.2	25306.0	24902.2	24381.1	21100.1	18885.5	14069.2
75°	8733.7	8968.2	10391.9	14072.9	21606.3	22283.7	23089.5	23182.6	19421.5	16218.7	10481.2
77.5°	6158.1	6349.8	7581.7	10520.3	17437.6	18314.2	19992.8	20130.5	16265.2	12375.7	5529.1
80°	3997.4	4161.2	5264.8	7710.2	13181.5	13939.0	15783.2	15213.7	11558.7	6729.4	962.1
82.5°	2413.7	2536.6	3353.5	5333.7	9645.6	10149.9	10901.8	9133.8	5363.4	951.0	336.8
85°	1384.6	1468.3	2071.3	3426.1	6796.4	7226.3	7330.5	4585.5	1008.7	262.4	189.8
87.5°	709.0	751.8	1111.0	2104.8	4016.1	4200.3	3677.4	1641.4	201.0	117.2	94.9
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°	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6	4745.6
2.5°	4700.9	4713.9	4723.2	4754.9	4788.4	4805.1	4788.4	4814.4	4823.7	4816.3	4805.1
5°	4712.1	4732.5	4747.4	4810.7	4847.9	4875.8	4857.2	4894.5	4907.5	4892.6	4892.6
7.5°	4743.7	4771.6	4795.8	4879.6	4922.4	4959.6	4948.4	4974.5	4985.6	4967.0	4978.2
10°	4827.5	4855.4	4887.0	4991.2	5019.1	5054.5	5034.0	5054.5	5058.2	5045.2	5054.5
12.5°	4972.6	4991.2	5052.6	5158.7	5162.4	5171.7	5128.9	5089.9	5073.1	5048.9	5065.7
15°	5158.7	5192.2	5276.0	5365.3	5341.1	5320.6	5214.5	5088.0	5008.0	4948.4	4944.7
17.5°	5365.3	5424.8	5529.1	5586.7	5530.9	5437.9	5259.2	5045.2	4851.6	4745.6	4712.1
20°	5577.4	5670.5	5785.9	5797.0	5702.1	5523.5	5251.8	4935.4	4615.3	4418.0	4369.6
22.5°	5836.1	5957.1	6061.3	6005.5	5815.7	5553.2	5182.9	4741.8	4302.7	4003.0	3958.4
25°	6178.5	6297.7	6316.3	6152.5	5858.5	5497.4	5024.7	4453.4	3897.0	3524.8	3489.4
27.5°	6591.7	6655.0	6534.0	6228.8	5806.3	5329.9	4754.9	4053.3	3444.7	3120.9	3066.9
30°	7049.5	7027.2	6694.0	6230.7	5653.7	5045.2	4345.5	3599.2	3087.4	2808.3	2756.2
32.5°	7630.1	7483.1	6856.0	6146.9	5402.5	4661.8	3863.5	3236.3	2841.8	2557.0	2506.8
35°	8784.0	8337.3	7075.6	6014.8	5069.4	4202.2	3441.0	2973.9	2631.5	2303.9	2257.4
37.5°	10538.9	9614.0	7471.9	5869.6	4699.0	3731.3	3117.2	2769.2	2465.8	2116.0	2043.4
40°	12077.9	11024.6	8104.7	5733.8	4321.3	3374.0	2931.1	2670.5	2374.6	2021.1	1946.6
42.5°	13259.7	12154.2	8828.6	5571.9	3926.7	3109.7	2852.9	2657.5	2363.5	2021.1	1952.2
45°	14214.4	13086.6	9472.5	5395.1	3545.2	2901.3	2782.2	2633.3	2341.1	2009.9	1944.8
47.5°	14968.1	13782.6	9980.6	5192.2	3148.8	2759.9	2709.6	2549.6	2283.5	1976.4	1911.3
50°	15621.3	14281.4	10265.3	4954.0	2797.1	2648.2	2607.3	2415.6	2168.1	1877.8	1835.0
52.5°	16077.3	14687.1	10373.3	4855.4	2545.9	2521.7	2467.7	2279.7	2043.4	1760.5	1712.1
55°	16419.7	14895.5	10283.9	4630.2	2294.6	2326.3	2302.1	2175.5	1955.9	1687.9	1639.5
57.5°	16594.6	14964.4	10029.0	3781.6	2056.4	2093.6	2110.4	2117.8	1942.9	1708.4	1663.7
60°	16656.0	14856.4	9472.5	2700.3	1801.5	1875.9	1968.9	1996.9	1885.2	1630.2	1593.0
62.5°	16563.0	14575.4	8382.0	1866.6	1607.9	1740.0	1862.9	1855.4	1736.3	1514.9	1464.6
65°	16200.1	13886.8	6374.0	1505.6	1542.8	1678.6	1814.5	1723.3	1607.9	1403.2	1377.1
67.5°	15321.7	12437.1	3575.0	1390.2	1522.3	1643.3	1730.7	1620.9	1492.5	1299.0	1287.8
68°	15061.1	12010.9	3052.1	1382.7	1518.6	1632.1	1708.4	1594.9	1470.2	1282.2	1274.8
70°	13542.6	9815.0	1377.1	1358.5	1496.3	1591.2	1647.0	1522.3	1388.3	1224.5	1213.4
72.5°	10464.5	6078.1	924.9	1291.5	1440.4	1529.7	1565.1	1447.9	1336.2	1153.8	1138.9
75°	6202.7	1671.2	876.5	1176.2	1345.5	1470.2	1507.4	1390.2	1258.0	1047.7	1023.6
77.5°	1526.0	603.0	848.6	1045.9	1246.9	1371.6	1431.1	1351.1	1191.0	943.5	919.3
80°	463.4	480.1	807.7	904.5	1122.2	1224.5	1259.9	1259.9	1101.7	664.4	699.7
82.5°	305.2	385.2	688.6	679.3	891.4	1014.2	947.3	951.0	865.4	295.9	346.1
85°	191.7	314.5	465.3	444.8	567.6	621.6	673.7	692.3	608.5	85.6	5.6
87.5°	98.6	134.0	163.8	174.9	225.2	322.0	431.8	424.3	312.6	76.3	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)