

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: P285849

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ-7030-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)  
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-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43262 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

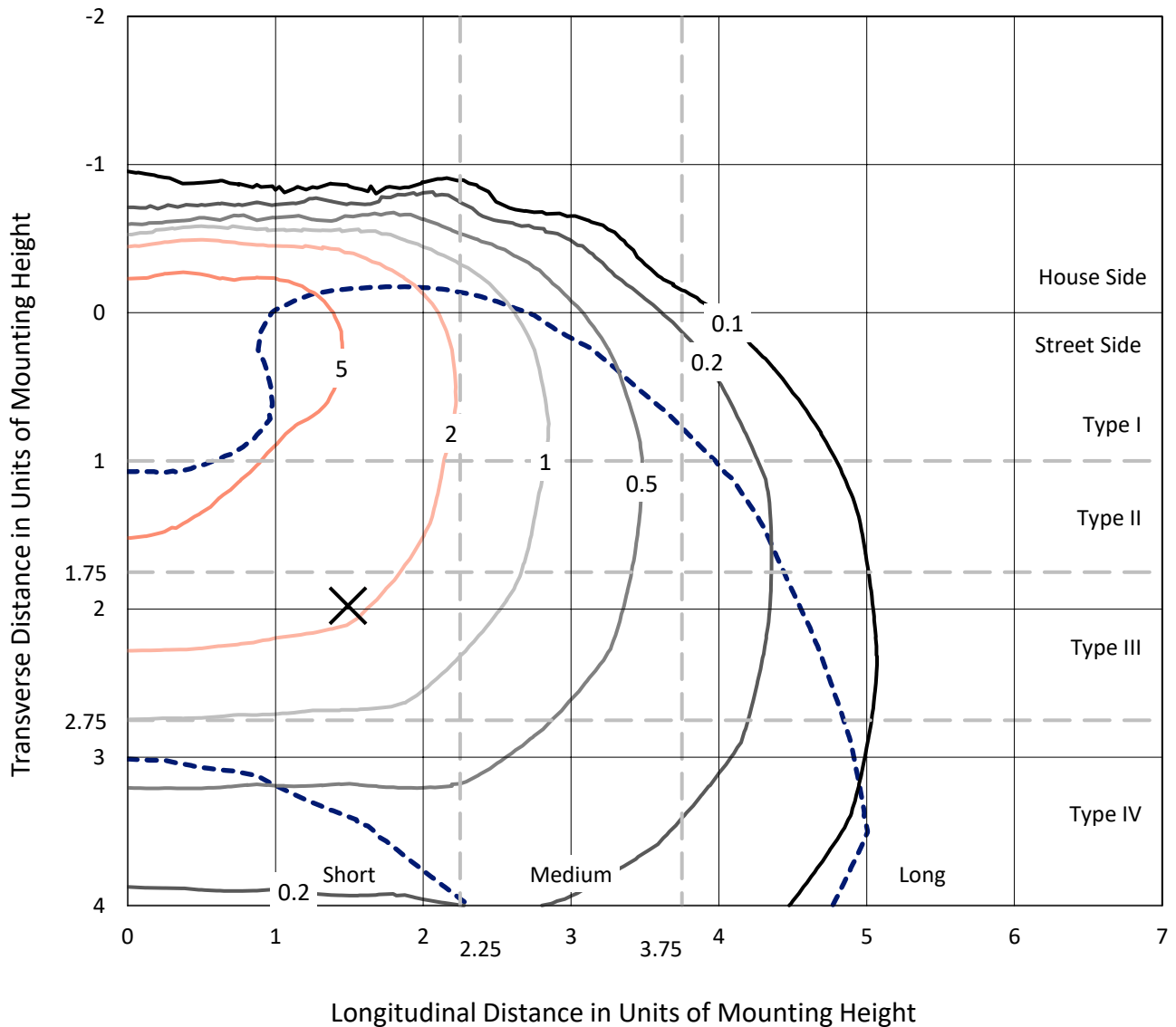
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

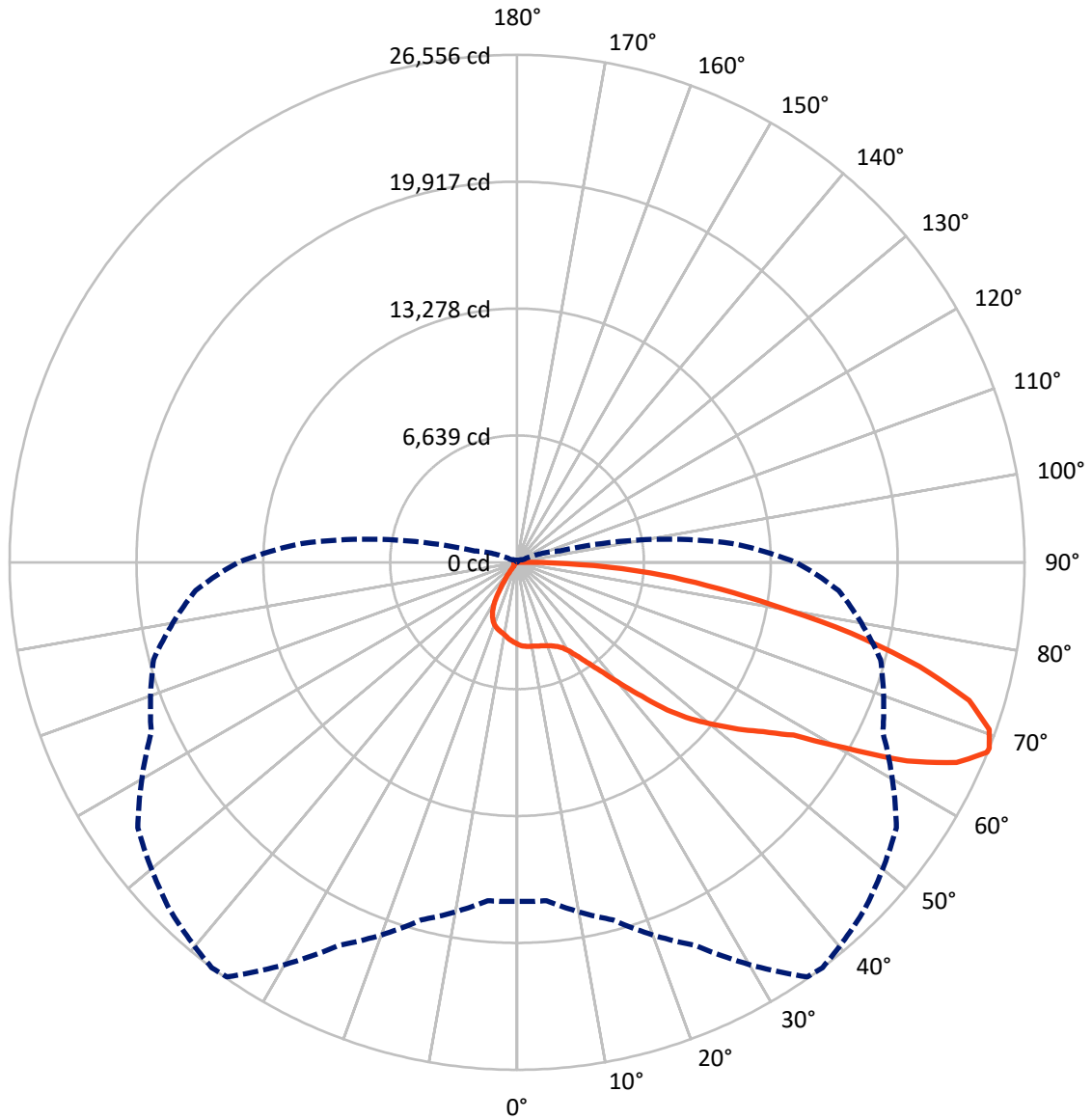
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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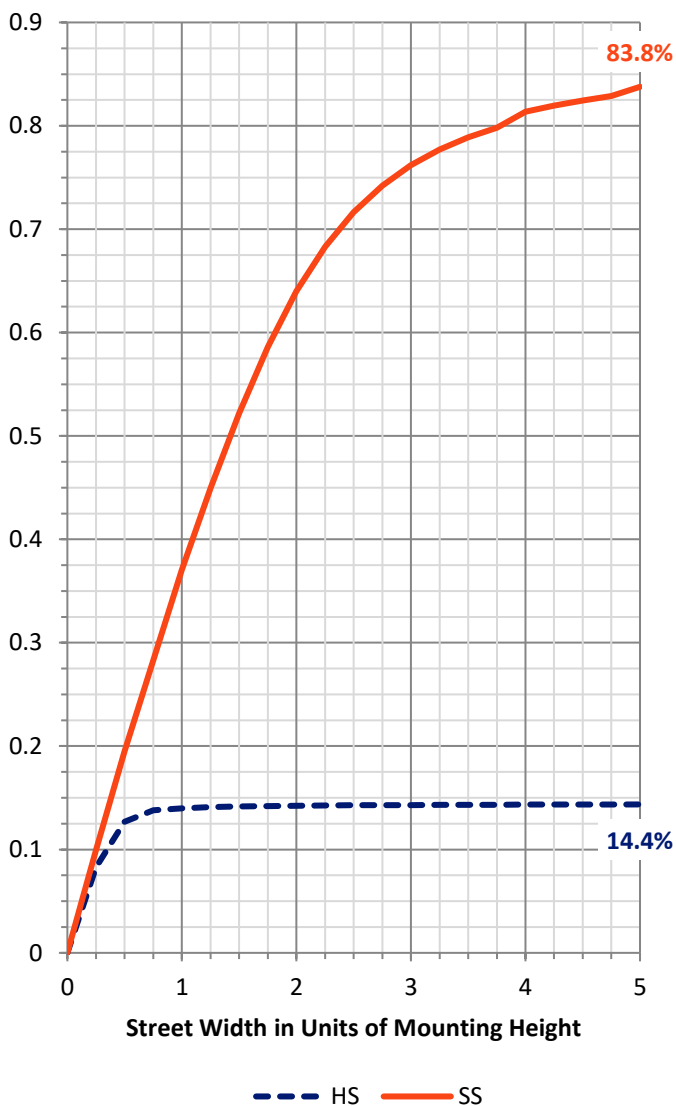
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6284.0	0.0	6284.0
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	36978.0	0.0	36978.0
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	43262.0	0.0	43262.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.4	0.9
10°-20°	1200.3	2.8
20°-30°	2005.8	4.6
30°-40°	3258.0	7.5
40°-50°	5885.9	13.6
50°-60°	8767.5	20.3
60°-70°	11421.2	26.4
70°-80°	8408.9	19.4
80°-90°	1910.0	4.4
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°	43262.0	100.0
0°-180°	43262.0	100.0

**Coefficient of Utilization**



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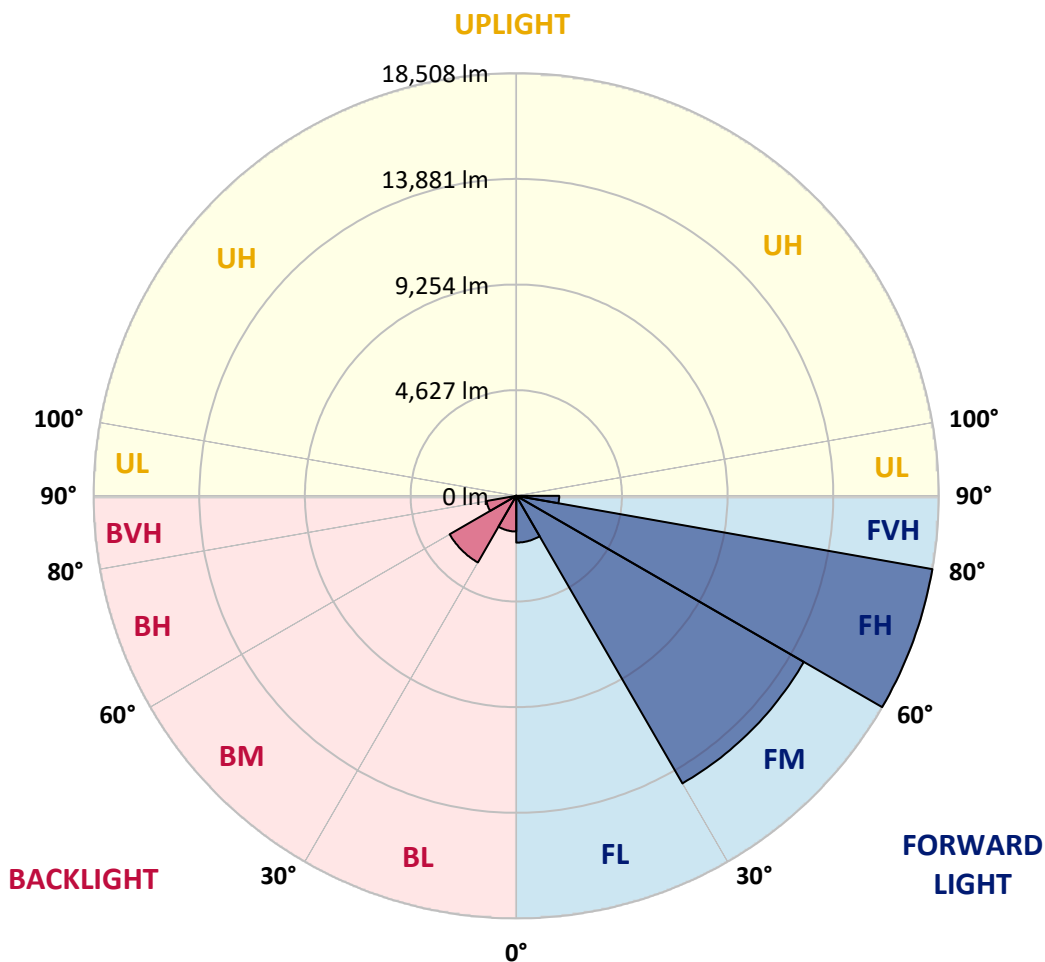
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.7	4.7			
FM (30°-60°)	14543.9	33.6			
FH (60°-80°)	18507.8	42.8			G5
FVH (80°-90°)	1878.7	4.3			G5
BL (0°-30°)	1562.8	3.6	B3/2500		
BM (30°-60°)	3367.6	7.8	B3/5000		
BH (60°-80°)	1322.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	31.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3
2.5°	4374.5	4378.1	4378.1	4372.6	4379.9	4374.5	4361.7	4348.9	4334.3	4275.8	4263.0
5°	4394.6	4403.7	4403.7	4401.9	4412.8	4411.0	4400.0	4389.1	4372.6	4303.2	4279.4
7.5°	4405.5	4414.7	4416.5	4412.8	4434.8	4438.4	4431.1	4431.1	4418.3	4348.9	4314.2
10°	4403.7	4405.5	4411.0	4420.1	4454.9	4464.0	4473.1	4487.8	4487.8	4431.1	4390.9
12.5°	4356.2	4358.0	4376.3	4418.3	4487.8	4502.4	4529.8	4570.0	4590.1	4559.0	4524.3
15°	4323.3	4323.3	4348.9	4414.7	4520.6	4540.7	4599.2	4661.3	4719.8	4716.2	4708.8
17.5°	4352.5	4358.0	4398.2	4454.9	4562.7	4584.6	4661.3	4761.8	4855.0	4895.2	4902.5
20°	4440.2	4445.7	4489.6	4548.1	4641.2	4657.7	4732.6	4853.2	4992.1	5079.8	5130.9
22.5°	4570.0	4573.6	4608.4	4652.2	4743.6	4754.5	4827.6	4957.4	5132.8	5282.6	5372.1
25°	4692.4	4699.7	4730.8	4763.7	4866.0	4875.1	4964.7	5101.7	5306.4	5507.4	5671.8
27.5°	4816.7	4829.4	4867.8	4913.5	5061.5	5065.2	5147.4	5282.6	5525.6	5799.7	6044.6
30°	5092.6	5078.0	5110.8	5171.1	5379.5	5392.2	5474.5	5626.1	5852.7	6161.5	6516.0
32.5°	5562.2	5545.7	5543.9	5633.4	5825.3	5887.4	5977.0	6216.3	6499.6	6806.5	7177.5
35°	6490.4	6464.8	6342.4	6313.2	6426.5	6514.2	6693.3	7044.1	7521.0	8191.6	8613.7
37.5°	8032.6	7999.7	7731.1	7415.0	7252.4	7307.2	7457.0	7943.1	8743.4	10163.2	10581.7
40°	9556.6	9563.9	9238.6	8712.4	8357.9	8368.9	8308.6	8869.5	10060.9	12003.3	12173.2
42.5°	11012.9	11000.1	10601.8	10121.2	9668.0	9578.5	9353.7	9839.8	11294.3	13487.0	13413.9
45°	12304.8	12279.2	11835.2	11566.6	11069.5	11022.0	10662.1	10824.7	12538.7	14667.4	14417.1
47.5°	13538.2	13516.2	12990.0	12736.0	12335.8	12253.6	11915.6	11997.8	13693.5	15595.7	15224.7
50°	14822.7	14866.6	14101.0	13808.6	13441.3	13333.5	13163.6	13212.9	14884.9	16469.1	15913.6
52.5°	16383.2	16162.1	15350.8	14809.9	14515.8	14493.8	14276.4	14380.5	16195.0	17236.5	16527.6
55°	18047.8	17755.5	16957.0	16251.7	15592.0	15630.4	15308.8	15462.3	17371.8	17899.8	17011.8
57.5°	19184.4	19177.1	18965.1	18290.9	17141.5	17061.1	16465.4	16595.2	18402.3	18585.1	17375.4
60°	20271.6	20569.5	20797.9	20496.4	19939.1	19683.2	18016.8	17775.6	19343.4	19204.5	17583.7
62.5°	21002.5	21093.9	21954.5	22208.5	22959.5	22910.2	21117.6	19204.5	20145.5	19606.5	17651.3
65°	20330.1	20405.0	21711.5	22933.9	25165.0	25267.4	24520.0	21563.5	20777.8	19745.4	17512.5
67.5°	18245.2	18300.0	19834.9	22365.7	26391.1	26526.3	25654.7	24024.8	21097.5	19721.6	17039.2
68°	17737.2	17775.6	19369.0	22126.3	26482.5	26555.6	25711.4	24229.5	21123.1	19694.2	16885.7
70°	15557.3	15550.0	17055.6	20704.7	26186.5	26208.4	25384.3	24452.4	21022.6	19434.7	15906.3
72.5°	12028.9	12262.7	13518.1	17439.4	24554.7	24730.1	24300.7	23836.6	20595.1	18385.9	13561.9
75°	8558.9	8741.6	10031.7	13600.3	21196.2	21749.9	22511.8	22681.8	19041.9	15802.1	9991.5
77.5°	5971.5	6165.2	7371.2	10157.7	17134.2	17857.8	19465.8	19718.0	16015.9	11979.5	5098.1
80°	3820.8	4005.4	5112.7	7387.6	12937.0	13554.6	15312.4	14948.8	11208.4	6417.3	893.5
82.5°	2322.4	2415.6	3252.5	5052.4	9428.7	10002.4	10587.1	8977.3	5364.8	908.1	286.9
85°	1319.3	1385.1	1995.4	3263.5	6660.4	6992.9	7124.5	4480.4	1116.5	244.9	164.5
87.5°	350.8	487.9	1078.1	2011.8	3351.2	3265.3	3519.3	1604.3	201.0	106.0	78.6
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°	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3	4281.3
2.5°	4248.4	4244.7	4231.9	4226.5	4231.9	4226.5	4186.3	4189.9	4189.9	4169.8	4157.0
5°	4257.5	4248.4	4208.2	4200.9	4178.9	4144.2	4078.4	4063.8	4051.0	4018.1	4012.7
7.5°	4283.1	4270.3	4206.4	4177.1	4116.8	4054.7	3965.2	3912.2	3886.6	3846.4	3851.9
10°	4358.0	4330.6	4239.2	4182.6	4069.3	3967.0	3837.2	3756.8	3709.3	3649.0	3669.1
12.5°	4493.2	4451.2	4337.9	4239.2	4065.7	3914.0	3729.4	3581.4	3506.5	3437.1	3457.2
15°	4677.8	4632.1	4493.2	4343.4	4113.2	3892.1	3638.1	3404.2	3269.0	3179.4	3184.9
17.5°	4884.3	4844.1	4685.1	4485.9	4186.3	3877.4	3533.9	3219.6	2973.0	2845.0	2841.4
20°	5103.5	5079.8	4906.2	4637.6	4261.2	3844.6	3400.5	2983.9	2644.0	2428.4	2410.2
22.5°	5355.7	5344.7	5141.9	4787.4	4295.9	3769.6	3221.5	2691.6	2240.2	1947.9	1929.6
25°	5686.4	5670.0	5375.8	4891.6	4281.3	3643.6	2971.1	2340.7	1728.6	1392.4	1377.8
27.5°	6084.8	6002.5	5582.3	4944.6	4210.0	3444.4	2644.0	1820.0	1162.1	857.0	849.7
30°	6532.5	6371.7	5763.2	4950.0	4078.4	3166.6	2163.5	1176.8	676.1	482.4	478.7
32.5°	7113.5	6830.3	5958.7	4919.0	3877.4	2792.1	1545.9	674.3	339.9	259.5	259.5
35°	8257.4	7639.8	6209.0	4838.6	3597.9	2256.7	953.8	327.1	199.2	195.5	197.3
37.5°	9956.7	8949.9	6618.3	4708.8	3225.1	1626.3	489.7	182.7	182.7	190.0	191.9
40°	11456.9	10320.4	7208.5	4526.1	2729.9	1028.7	233.9	171.8	182.7	184.6	188.2
42.5°	12644.6	11420.4	7831.6	4250.2	2148.9	548.2	195.5	166.3	169.9	168.1	175.4
45°	13594.8	12288.3	8312.2	3888.4	1516.6	281.4	202.8	160.8	148.0	148.0	151.7
47.5°	14334.9	12948.0	8613.7	3495.5	922.8	226.6	202.8	142.5	133.4	135.2	137.0
50°	14985.4	13441.3	8717.9	3011.3	464.1	230.2	195.5	135.2	118.8	120.6	124.3
52.5°	15453.1	13788.5	8639.3	2410.2	255.8	233.9	186.4	124.3	102.3	111.5	115.1
55°	15805.8	13953.0	8379.8	1714.0	232.1	230.2	180.9	111.5	91.4	109.6	115.1
57.5°	16005.0	14007.8	7939.4	1116.5	254.0	202.8	166.3	102.3	85.9	107.8	115.1
60°	16087.2	13907.3	7303.6	654.2	259.5	179.1	155.3	95.0	78.6	89.5	93.2
62.5°	16001.3	13649.6	6368.0	413.0	237.5	169.9	148.0	89.5	65.8	64.0	62.1
65°	15659.6	13011.9	4822.1	330.7	221.1	169.9	138.9	78.6	51.2	38.4	34.7
67.5°	14842.8	11696.3	2728.1	327.1	215.6	166.3	126.1	71.3	40.2	20.1	16.4
68°	14596.2	11318.0	2298.7	332.6	221.1	166.3	124.3	67.6	38.4	16.4	12.8
70°	13092.3	9277.0	793.0	319.8	252.2	175.4	118.8	58.5	31.1	7.3	5.5
72.5°	9969.5	5699.2	350.8	257.6	277.7	182.7	118.8	56.6	25.6	1.8	0.0
75°	5796.1	1403.3	299.7	173.6	232.1	217.4	137.0	65.8	23.8	0.0	0.0
77.5°	1405.2	323.4	261.3	100.5	182.7	237.5	162.6	73.1	25.6	0.0	0.0
80°	334.4	252.2	254.0	64.0	146.2	212.0	140.7	78.6	36.5	0.0	0.0
82.5°	221.1	199.2	226.6	34.7	84.1	157.1	98.7	49.3	45.7	0.0	0.0
85°	149.8	182.7	129.7	20.1	32.9	53.0	40.2	7.3	9.1	0.0	0.0
87.5°	84.1	53.0	21.9	9.1	7.3	5.5	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)