

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: P285848

Luminaire Tested: **PRV-XL-C150-D-UNV-T4-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285848
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-C150-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: 36599 lumens
Efficiency: N/A
Efficacy: 128.4 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

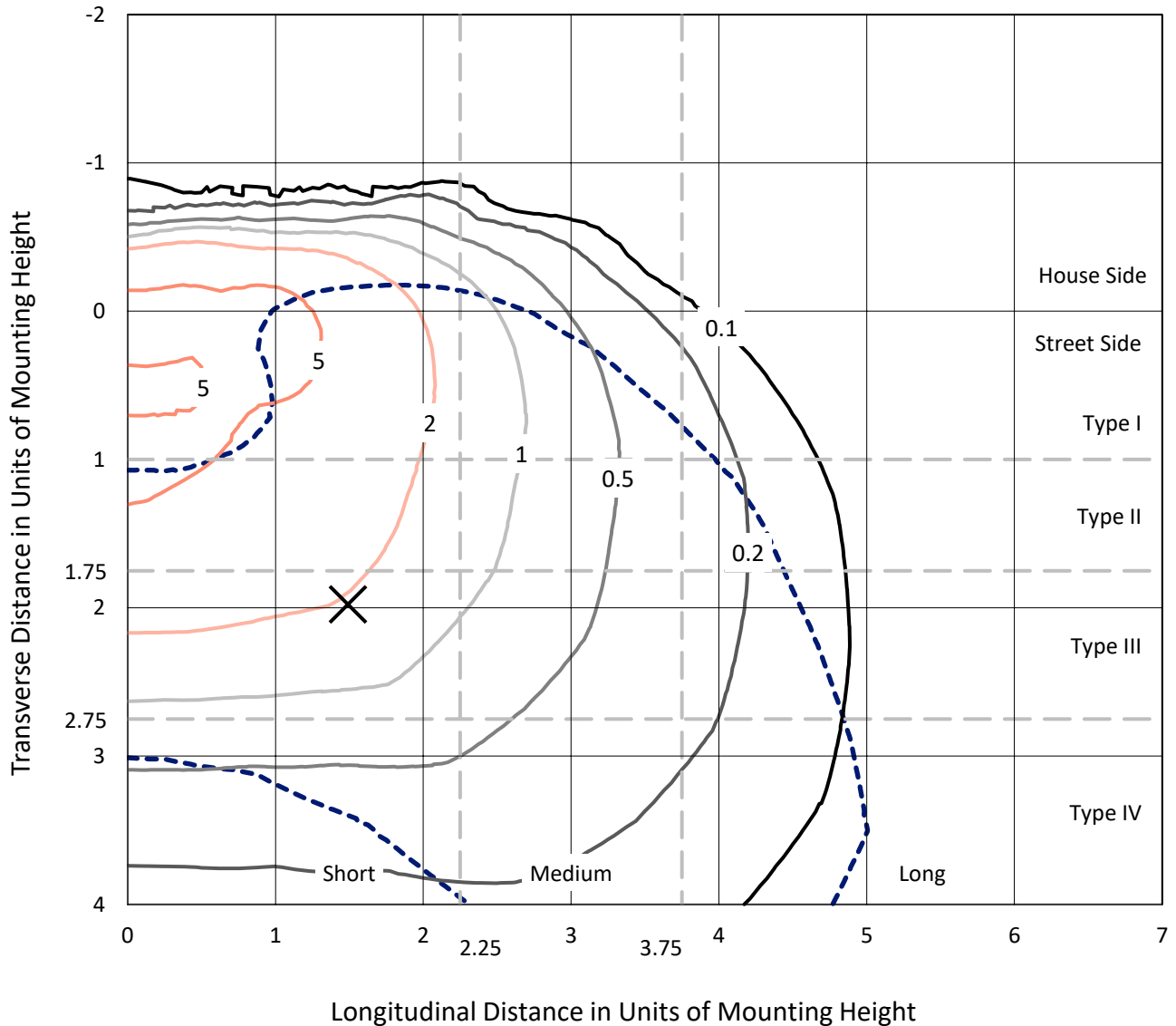
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

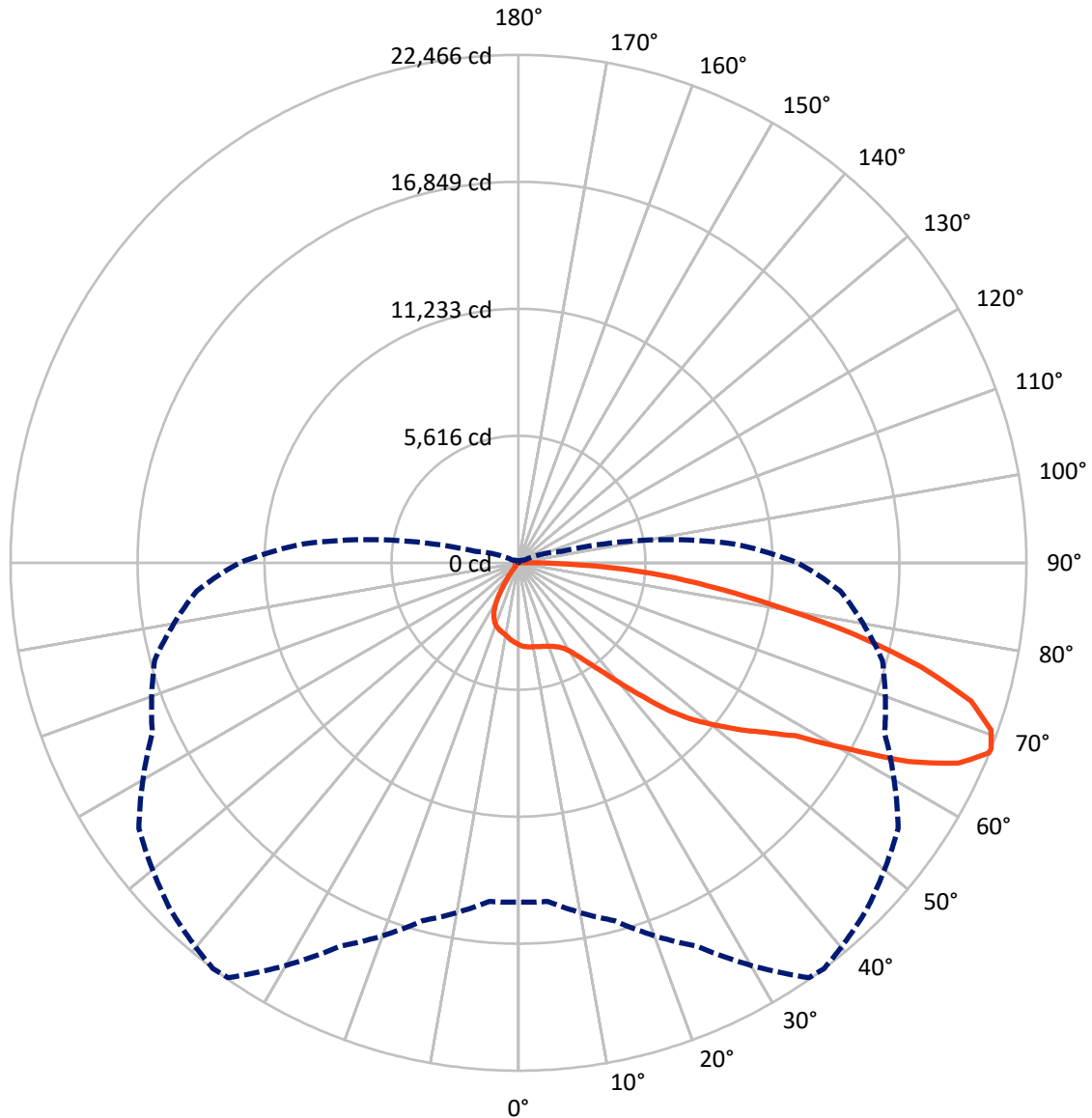
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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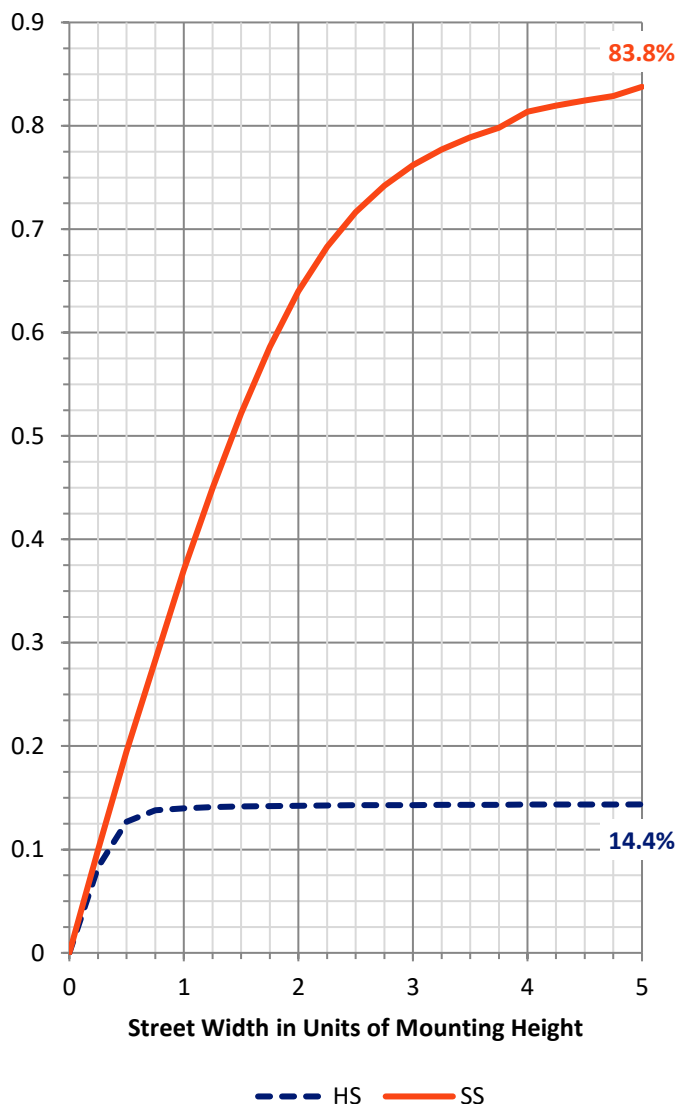
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5316.2	0.0	5316.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	31282.8	0.0	31282.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	36599.0	0.0	36599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	0.9
10°-20°	1015.4	2.8
20°-30°	1696.9	4.6
30°-40°	2756.2	7.5
40°-50°	4979.4	13.6
50°-60°	7417.2	20.3
60°-70°	9662.2	26.4
70°-80°	7113.8	19.4
80°-90°	1615.8	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°	36599.0	100.0
0°-180°	36599.0	100.0

Coefficient of Utilization



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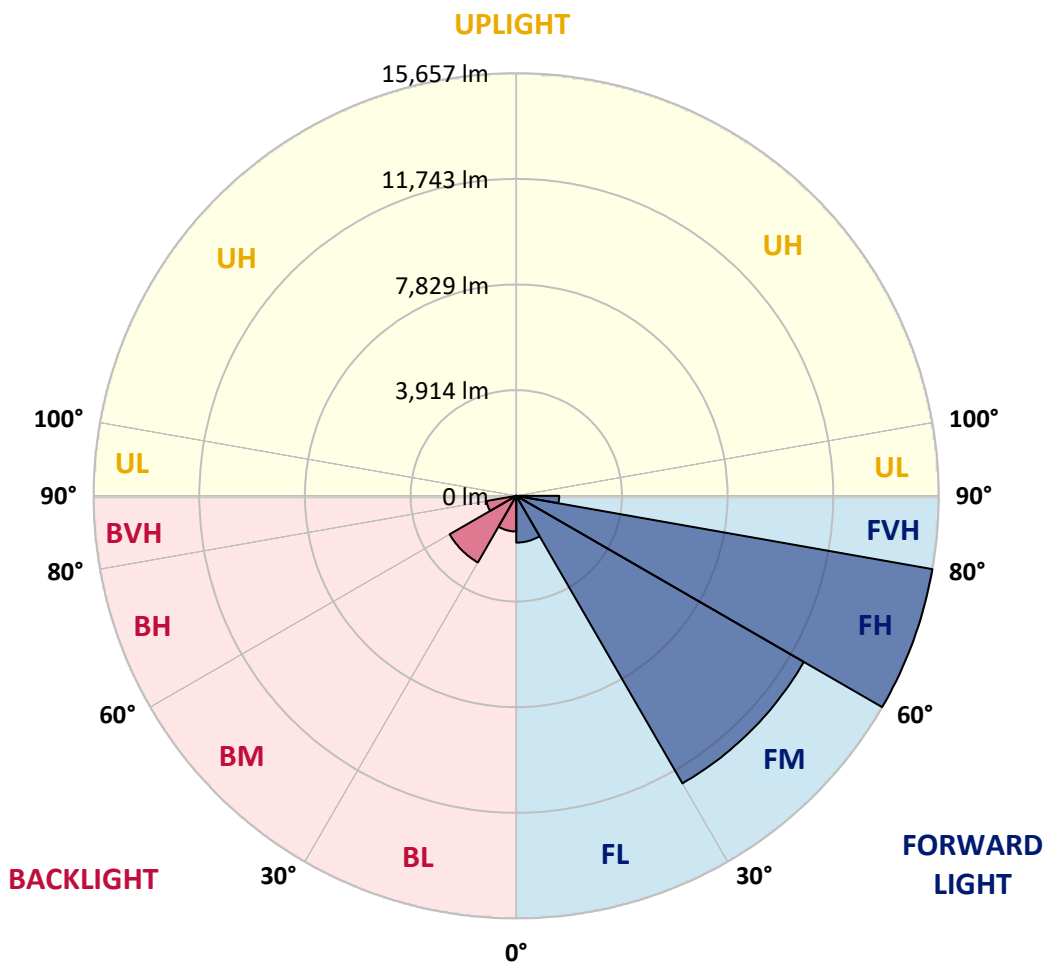
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.3	4.7			
FM (30°-60°)	12303.9	33.6			
FH (60°-80°)	15657.3	42.8			G5
FVH (80°-90°)	1589.3	4.3			G5
BL (0°-30°)	1322.1	3.6	B3/2500		
BM (30°-60°)	2848.9	7.8	B3/5000		
BH (60°-80°)	1118.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	26.5	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°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	3700.7	3703.8	3703.8	3699.2	3705.4	3700.7	3689.9	3679.1	3666.7	3617.3	3606.4
5°	3717.7	3725.5	3725.5	3723.9	3733.2	3731.6	3722.4	3713.1	3699.2	3640.4	3620.3
7.5°	3727.0	3734.7	3736.3	3733.2	3751.7	3754.8	3748.6	3748.6	3737.8	3679.1	3649.7
10°	3725.5	3727.0	3731.6	3739.4	3768.7	3776.5	3784.2	3796.6	3796.6	3748.6	3714.6
12.5°	3685.3	3686.8	3702.3	3737.8	3796.6	3808.9	3832.1	3866.1	3883.1	3856.9	3827.5
15°	3657.4	3657.4	3679.1	3734.7	3824.4	3841.4	3890.9	3943.4	3992.9	3989.8	3983.6
17.5°	3682.2	3686.8	3720.8	3768.7	3859.9	3878.5	3943.4	4028.4	4107.3	4141.3	4147.5
20°	3756.4	3761.0	3798.1	3847.6	3926.4	3940.3	4003.7	4105.7	4223.2	4297.4	4340.7
22.5°	3866.1	3869.2	3898.6	3935.7	4013.0	4022.3	4084.1	4193.8	4342.2	4469.0	4544.8
25°	3969.7	3975.9	4002.2	4030.0	4116.6	4124.3	4200.0	4316.0	4489.1	4659.1	4798.3
27.5°	4074.8	4085.6	4118.1	4156.7	4282.0	4285.1	4354.6	4469.0	4674.6	4906.5	5113.6
30°	4308.2	4295.9	4323.7	4374.7	4550.9	4561.8	4631.3	4759.6	4951.3	5212.6	5512.4
32.5°	4705.5	4691.6	4690.1	4765.8	4928.1	4980.7	5056.4	5258.9	5498.5	5758.2	6072.0
35°	5490.8	5469.2	5365.6	5340.9	5436.7	5510.9	5662.4	5959.2	6362.7	6930.0	7287.1
37.5°	6795.5	6767.7	6540.4	6273.0	6135.4	6181.8	6308.6	6719.7	7396.8	8597.9	8951.9
40°	8084.7	8090.9	7815.7	7370.5	7070.6	7079.9	7028.9	7503.5	8511.4	10154.6	10298.4
42.5°	9316.7	9305.9	8968.9	8562.4	8179.0	8103.3	7913.1	8324.3	9554.8	11409.8	11348.0
45°	10409.7	10388.0	10012.4	9785.1	9364.7	9324.5	9019.9	9157.5	10607.5	12408.4	12196.6
47.5°	11453.1	11434.5	10989.3	10774.5	10435.9	10366.4	10080.4	10150.0	11584.5	13193.7	12879.9
50°	12539.8	12576.9	11929.2	11681.9	11371.2	11280.0	11136.2	11177.9	12592.4	13932.6	13462.7
52.5°	13860.0	13672.9	12986.6	12529.0	12280.1	12261.6	12077.6	12165.7	13700.7	14581.9	13982.1
55°	15268.2	15020.9	14345.3	13748.7	13190.6	13223.1	12951.0	13080.9	14696.2	15143.0	14391.7
57.5°	16229.7	16223.5	16044.2	15473.8	14501.5	14433.5	13929.5	14039.3	15568.1	15722.7	14699.3
60°	17149.5	17401.5	17594.7	17339.6	16868.1	16651.7	15241.9	15037.9	16364.2	16246.7	14875.6
62.5°	17767.8	17845.1	18573.2	18788.1	19423.4	19381.7	17865.2	16246.7	17042.8	16586.8	14932.8
65°	17199.0	17262.3	18367.6	19401.8	21289.2	21375.8	20743.6	18242.4	17577.7	16704.3	14815.3
67.5°	15435.2	15481.5	16780.0	18921.0	22326.5	22440.9	21703.5	20324.6	17848.2	16684.2	14414.9
68°	15005.4	15037.9	16385.8	18718.5	22403.8	22465.6	21751.4	20497.8	17869.8	16661.0	14285.1
70°	13161.2	13155.1	14428.8	17515.9	22153.4	22171.9	21474.7	20686.4	17784.8	16441.5	13456.5
72.5°	10176.2	10374.1	11436.1	14753.4	20772.9	20921.3	20558.1	20165.4	17423.1	15554.2	11473.2
75°	7240.7	7395.3	8486.6	11505.6	17931.7	18400.1	19044.7	19188.4	16109.1	13368.4	8452.6
77.5°	5051.8	5215.6	6235.9	8593.3	14495.3	15107.4	16467.8	16681.1	13549.2	10134.5	4312.9
80°	3232.3	3388.5	4325.2	6249.8	10944.5	11467.0	12954.1	12646.5	9482.1	5429.0	755.9
82.5°	1964.8	2043.6	2751.6	4274.2	7976.5	8461.9	8956.6	7594.7	4538.6	768.3	242.7
85°	1116.1	1171.7	1688.1	2760.9	5634.6	5915.9	6027.2	3790.4	944.5	207.1	139.1
87.5°	296.8	412.7	912.0	1702.0	2835.1	2762.4	2977.3	1357.2	170.0	89.7	66.5
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°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	3594.1	3591.0	3580.2	3575.5	3580.2	3575.5	3541.5	3544.6	3544.6	3527.6	3516.8
5°	3601.8	3594.1	3560.1	3553.9	3535.3	3506.0	3450.3	3437.9	3427.1	3399.3	3394.7
7.5°	3623.4	3612.6	3558.5	3533.8	3482.8	3430.2	3354.5	3309.6	3288.0	3254.0	3258.6
10°	3686.8	3663.6	3586.3	3538.4	3442.6	3356.0	3246.3	3178.2	3138.0	3087.0	3104.0
12.5°	3801.2	3765.7	3669.8	3586.3	3439.5	3311.2	3155.0	3029.8	2966.5	2907.7	2924.7
15°	3957.3	3918.7	3801.2	3674.4	3479.7	3292.6	3077.8	2879.9	2765.5	2689.8	2694.4
17.5°	4132.0	4098.0	3963.5	3795.0	3541.5	3280.3	2989.6	2723.8	2515.1	2406.9	2403.8
20°	4317.5	4297.4	4150.6	3923.3	3604.9	3252.4	2876.8	2524.3	2236.8	2054.4	2039.0
22.5°	4530.8	4521.6	4350.0	4050.1	3634.3	3189.1	2725.3	2277.0	1895.2	1647.9	1632.4
25°	4810.6	4796.7	4547.8	4138.2	3621.9	3082.4	2513.5	1980.2	1462.4	1177.9	1165.6
27.5°	5147.6	5078.1	4722.5	4183.0	3561.6	2913.9	2236.8	1539.7	983.2	725.0	718.8
30°	5526.4	5390.3	4875.6	4187.7	3450.3	2678.9	1830.3	995.5	572.0	408.1	405.0
32.5°	6017.9	5778.3	5041.0	4161.4	3280.3	2362.0	1307.8	570.4	287.5	219.5	219.5
35°	6985.6	6463.1	5252.7	4093.4	3043.7	1909.1	806.9	276.7	168.5	165.4	167.0
37.5°	8423.3	7571.5	5599.0	3983.6	2728.4	1375.8	414.3	154.6	154.6	160.8	162.3
40°	9692.4	8730.9	6098.3	3829.0	2309.5	870.3	197.9	145.3	154.6	156.1	159.2
42.5°	10697.2	9661.5	6625.4	3595.6	1817.9	463.8	165.4	140.7	143.8	142.2	148.4
45°	11501.0	10395.7	7032.0	3289.5	1283.0	238.1	171.6	136.0	125.2	125.2	128.3
47.5°	12127.1	10953.8	7287.1	2957.2	780.6	191.7	171.6	120.6	112.8	114.4	115.9
50°	12677.4	11371.2	7375.2	2547.5	392.6	194.8	165.4	114.4	100.5	102.0	105.1
52.5°	13073.1	11664.9	7308.7	2039.0	216.4	197.9	157.7	105.1	86.6	94.3	97.4
55°	13371.5	11804.0	7089.2	1450.0	196.3	194.8	153.0	94.3	77.3	92.8	97.4
57.5°	13540.0	11850.4	6716.7	944.5	214.9	171.6	140.7	86.6	72.7	91.2	97.4
60°	13609.5	11765.3	6178.7	553.4	219.5	151.5	131.4	80.4	66.5	75.7	78.8
62.5°	13536.9	11547.4	5387.2	349.4	201.0	143.8	125.2	75.7	55.7	54.1	52.6
65°	13247.8	11007.9	4079.5	279.8	187.0	143.8	117.5	66.5	43.3	32.5	29.4
67.5°	12556.8	9894.9	2307.9	276.7	182.4	140.7	106.7	60.3	34.0	17.0	13.9
68°	12348.1	9574.9	1944.7	281.3	187.0	140.7	105.1	57.2	32.5	13.9	10.8
70°	11075.9	7848.2	670.9	270.5	213.3	148.4	100.5	49.5	26.3	6.2	4.6
72.5°	8434.1	4821.5	296.8	218.0	235.0	154.6	100.5	47.9	21.6	1.5	0.0
75°	4903.4	1187.2	253.5	146.9	196.3	184.0	115.9	55.7	20.1	0.0	0.0
77.5°	1188.7	273.6	221.1	85.0	154.6	201.0	137.6	61.8	21.6	0.0	0.0
80°	282.9	213.3	214.9	54.1	123.7	179.3	119.0	66.5	30.9	0.0	0.0
82.5°	187.0	168.5	191.7	29.4	71.1	132.9	83.5	41.7	38.6	0.0	0.0
85°	126.8	154.6	109.8	17.0	27.8	44.8	34.0	6.2	7.7	0.0	0.0
87.5°	71.1	44.8	18.6	7.7	6.2	4.6	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)