

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: P381194

Luminaire Tested: **PRV-XL-PA4A-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21065.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 245
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: 28.75 FT

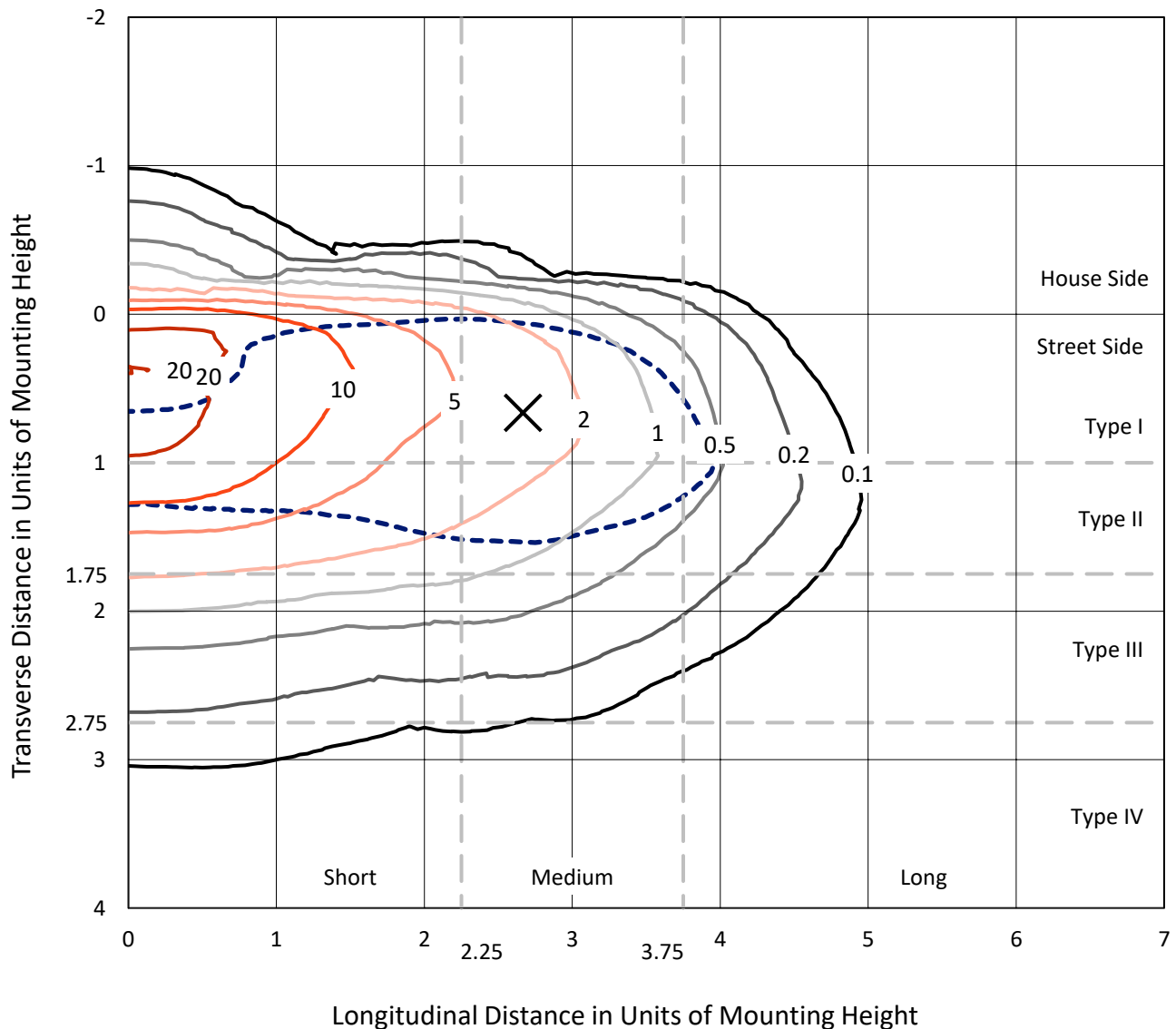


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

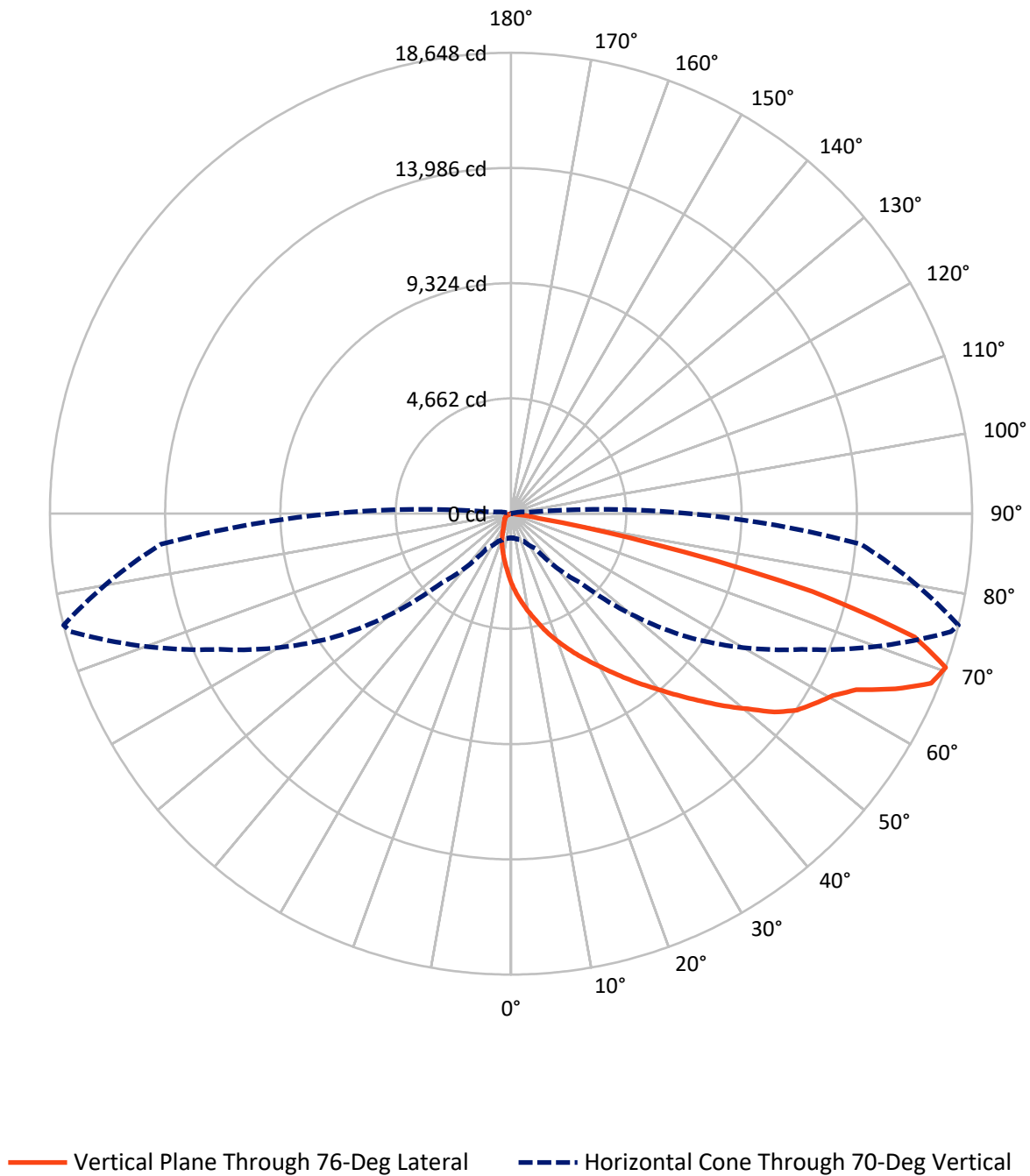


Based on 15 foot mounting height. Maximum calculated value = 24 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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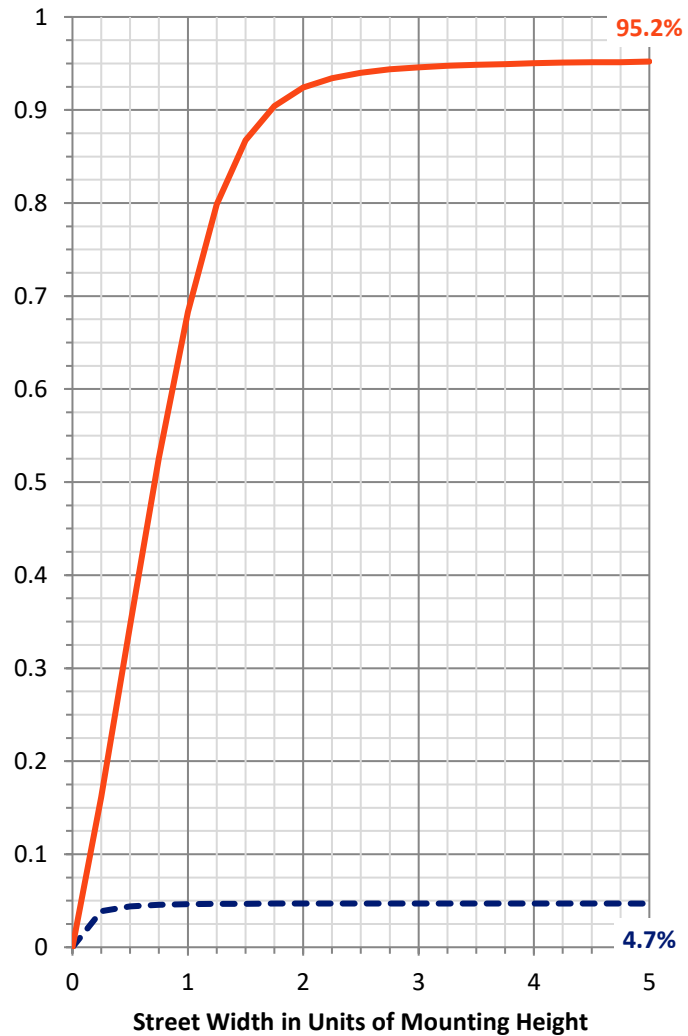
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.5	0.0	993.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20072.3	0.0	20072.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	21065.8	0.0	21065.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	1.3
10°-20°	857.4	4.1
20°-30°	1596.7	7.6
30°-40°	2824.3	13.4
40°-50°	4319.0	20.5
50°-60°	4896.7	23.2
60°-70°	4197.7	19.9
70°-80°	2033.1	9.7
80°-90°	75.4	0.4
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°	21065.8	100.0
0°-180°	21065.8	100.0

Coefficient of Utilization



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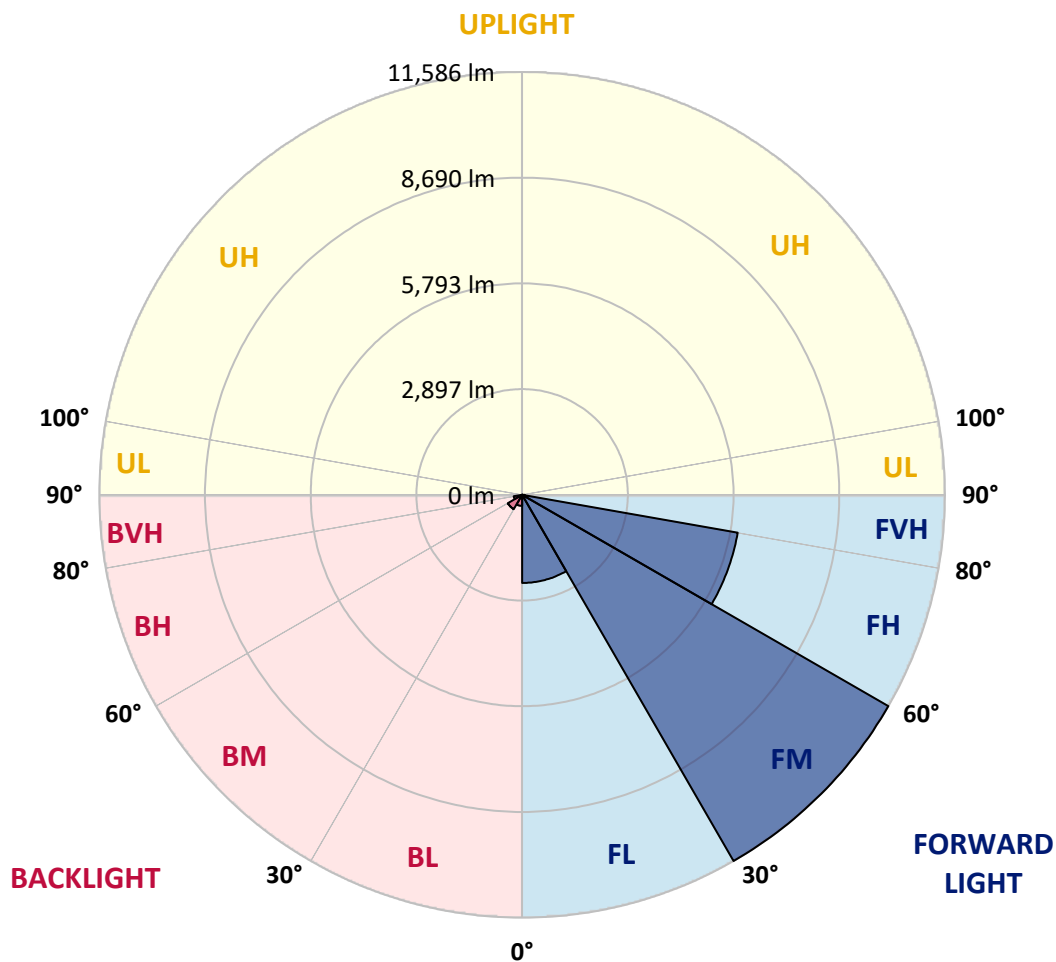
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2415.0	11.5			
FM	(30°-60°)	11586.4	55.0			
FH	(60°-80°)	5996.8	28.5			G3/7500
FVH	(80°-90°)	74.1	0.4			G1/100
BL	(0°-30°)	304.8	1.4	B1/500		
BM	(30°-60°)	453.5	2.2	B1/1000		
BH	(60°-80°)	233.9	1.1	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8
2.5°	3854.4	3833.4	3812.3	3731.7	3658.0	3591.4	3465.1	3300.3	3153.0	3121.4	2949.6
5°	4527.8	4503.3	4471.7	4391.1	4296.3	4184.1	3998.2	3745.7	3486.2	3430.1	3110.9
7.5°	4983.7	4962.7	4917.1	4878.6	4783.8	4675.1	4468.2	4173.5	3815.9	3745.7	3296.7
10°	5295.9	5281.9	5274.8	5243.3	5173.1	5085.4	4878.6	4569.9	4149.0	4068.4	3493.2
12.5°	5408.1	5408.1	5443.2	5495.8	5506.3	5478.3	5288.9	4980.3	4499.7	4415.6	3724.7
15°	5257.3	5274.8	5352.0	5520.4	5695.7	5811.4	5692.2	5404.6	4885.5	4794.4	3998.2
17.5°	5215.2	5232.8	5285.3	5432.7	5667.7	5976.2	6035.9	5814.9	5250.3	5173.1	4278.8
20°	5334.5	5352.0	5397.6	5523.8	5702.7	6014.8	6263.8	6211.3	5636.1	5555.4	4562.9
22.5°	5618.6	5629.1	5629.1	5727.3	5885.1	6116.6	6407.7	6586.5	6032.4	5944.7	4843.5
25°	6228.8	6207.8	6123.6	6074.5	6176.2	6365.6	6590.0	6916.2	6474.3	6355.1	5145.1
27.5°	7028.4	7098.6	6895.2	6660.2	6583.0	6691.8	6846.1	7207.3	6902.2	6775.9	5418.7
30°	8112.2	8084.1	7817.6	7480.9	7147.7	7109.1	7161.7	7456.4	7330.1	7210.8	5723.7
32.5°	9003.0	9055.6	8775.0	8364.7	7866.6	7631.7	7575.6	7754.4	7786.0	7708.9	6085.0
35°	9918.4	9974.5	9701.0	9245.0	8652.3	8259.5	8098.2	8122.7	8350.7	8252.4	6463.8
37.5°	10739.1	10788.2	10518.1	10051.7	9459.0	8978.4	8747.0	8557.6	8897.8	8810.1	6863.6
40°	11363.4	11370.4	11188.0	10770.6	10209.5	9711.5	9448.5	9076.7	9476.5	9416.8	7281.0
42.5°	11805.3	11819.3	11686.0	11328.3	10809.2	10346.2	10132.3	9690.4	10142.8	10090.2	7764.9
45°	12012.2	12036.7	12022.7	11693.0	11261.7	10861.9	10791.7	10342.7	10872.3	10823.3	8322.6
47.5°	11815.8	11815.8	11994.6	11949.0	11552.8	11286.2	11366.9	11023.2	11665.0	11619.4	8890.8
50°	10998.6	11009.1	11373.9	11896.4	11665.0	11605.4	11857.9	11689.6	12383.9	12412.0	9571.2
52.5°	8852.2	8834.7	10065.7	11068.7	11587.9	11749.1	12310.3	12369.9	13246.7	13330.9	10248.1
55°	6614.6	6604.1	7782.5	9602.7	11047.7	11675.5	12562.8	12976.7	13983.3	14035.8	10753.1
57.5°	5236.2	5208.2	5857.1	7740.4	9827.2	11345.8	12573.3	13092.4	14393.6	14484.8	11244.1
60°	4026.3	4001.8	4485.7	5758.8	8098.2	10469.0	12271.7	13099.4	14789.9	14951.2	11903.5
62.5°	2879.4	2907.5	3279.2	4131.5	6228.8	9230.9	11878.9	13197.6	15494.9	15677.2	12839.9
65°	1943.0	1929.0	2237.6	2812.8	4429.6	7565.0	11275.7	13404.6	16764.5	17083.7	13962.2
67.5°	1350.3	1360.8	1501.1	1830.7	2812.8	5807.9	10272.6	13520.3	18076.2	18325.2	14747.8
70°	975.0	989.0	1066.2	1231.0	1718.5	3938.6	8683.9	12990.7	18430.4	18647.8	14200.7
72.5°	641.8	669.9	785.6	873.3	1097.8	2465.6	6397.2	11191.5	16904.7	17066.1	11914.0
75°	347.2	354.2	505.0	652.3	782.1	1536.2	3815.9	7547.5	12647.0	12594.4	7856.2
77.5°	270.1	280.5	312.1	466.4	526.1	845.2	1508.1	3409.0	5990.3	5829.0	2679.5
80°	164.8	171.9	217.4	277.1	368.2	491.0	441.9	925.9	1217.0	1139.8	392.8
82.5°	98.2	105.2	129.7	231.5	291.1	231.5	154.3	224.5	227.9	224.5	98.2
85°	17.5	17.5	91.2	161.3	154.3	66.6	91.2	73.7	66.6	70.2	21.1
87.5°	0.0	0.0	35.1	49.1	70.2	24.6	35.1	17.5	17.5	17.5	10.5
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°	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8	2819.8
2.5°	2844.3	2725.1	2479.6	2265.7	2051.7	1893.9	1774.7	1651.9	1609.8	1557.2	1529.1
5°	2893.4	2658.4	2170.9	1781.6	1452.0	1199.5	1038.1	939.9	876.8	831.2	820.7
7.5°	2967.1	2605.8	1922.0	1395.9	1034.7	782.1	648.9	582.2	547.2	526.1	519.1
10°	3054.8	2560.3	1676.5	1087.3	729.5	550.6	477.0	448.9	434.9	427.9	424.4
12.5°	3177.6	2542.7	1469.5	838.2	550.6	452.4	413.8	396.3	385.8	375.3	371.8
15°	3338.9	2549.8	1280.1	648.9	455.9	403.3	371.8	354.2	340.2	329.6	329.6
17.5°	3507.2	2560.3	1094.2	526.1	413.8	368.2	333.2	308.7	298.1	287.6	284.1
20°	3665.1	2556.7	915.4	448.9	375.3	329.6	294.6	270.1	252.5	242.0	242.0
22.5°	3815.9	2535.7	747.1	403.3	343.7	291.1	252.5	227.9	213.9	203.4	203.4
25°	3977.2	2493.6	610.3	368.2	305.1	256.0	217.4	192.9	182.4	171.9	171.9
27.5°	4103.5	2423.5	498.0	336.7	270.1	221.0	185.9	164.8	154.3	147.3	147.3
30°	4240.2	2321.8	413.8	301.6	235.0	189.4	157.9	140.3	129.7	126.3	126.3
32.5°	4391.1	2209.5	354.2	266.5	199.9	161.3	133.3	122.8	112.2	108.8	108.8
35°	4566.4	2111.4	319.2	231.5	175.4	136.8	115.7	105.2	98.2	98.2	98.2
37.5°	4766.3	2009.6	287.6	203.4	150.8	115.7	98.2	94.7	91.2	87.7	87.7
40°	4983.7	1900.9	259.6	178.8	129.7	98.2	84.2	84.2	80.6	80.6	80.6
42.5°	5229.3	1806.2	235.0	157.9	112.2	84.2	73.7	73.7	70.2	70.2	70.2
45°	5495.8	1718.5	213.9	140.3	98.2	73.7	66.6	63.1	59.6	59.6	59.6
47.5°	5811.4	1669.4	196.4	122.8	84.2	63.1	56.1	52.6	49.1	45.6	45.6
50°	6214.7	1690.5	178.8	101.7	73.7	52.6	45.6	42.1	38.6	35.1	35.1
52.5°	6533.9	1679.9	154.3	87.7	59.6	42.1	35.1	31.6	28.0	24.6	24.6
55°	6765.4	1637.9	133.3	73.7	45.6	35.1	28.0	21.1	17.5	17.5	17.5
57.5°	6993.4	1595.8	112.2	59.6	35.1	24.6	17.5	14.0	14.0	14.0	14.0
60°	7347.6	1536.2	98.2	49.1	28.0	17.5	10.5	10.5	7.0	7.0	7.0
62.5°	7779.0	1462.5	80.6	42.1	21.1	14.0	7.0	7.0	0.0	0.0	0.0
65°	8252.4	1332.7	66.6	31.6	17.5	10.5	7.0	0.0	0.0	0.0	0.0
67.5°	8143.7	1069.7	56.1	21.1	14.0	7.0	3.5	0.0	0.0	0.0	0.0
70°	7203.8	722.5	45.6	17.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	5643.1	427.9	31.6	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
75°	3612.4	213.9	21.1	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1210.0	105.2	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	171.9	35.1	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.6	14.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	0.0	0.0	0.0	0.0	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)