

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: P381258

Luminaire Tested: **PRV-XL-PA4A-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
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-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19613.4 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

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

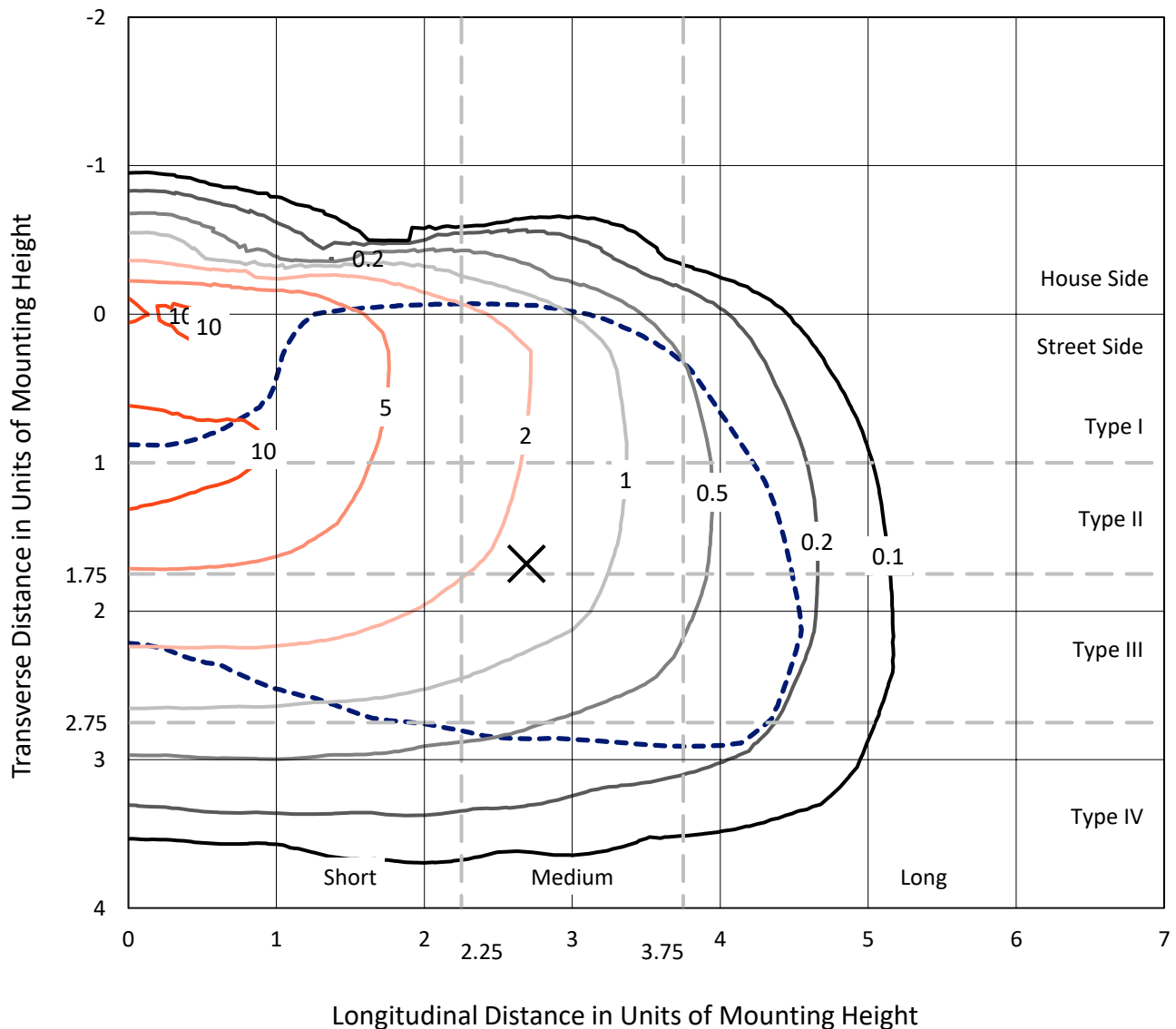


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

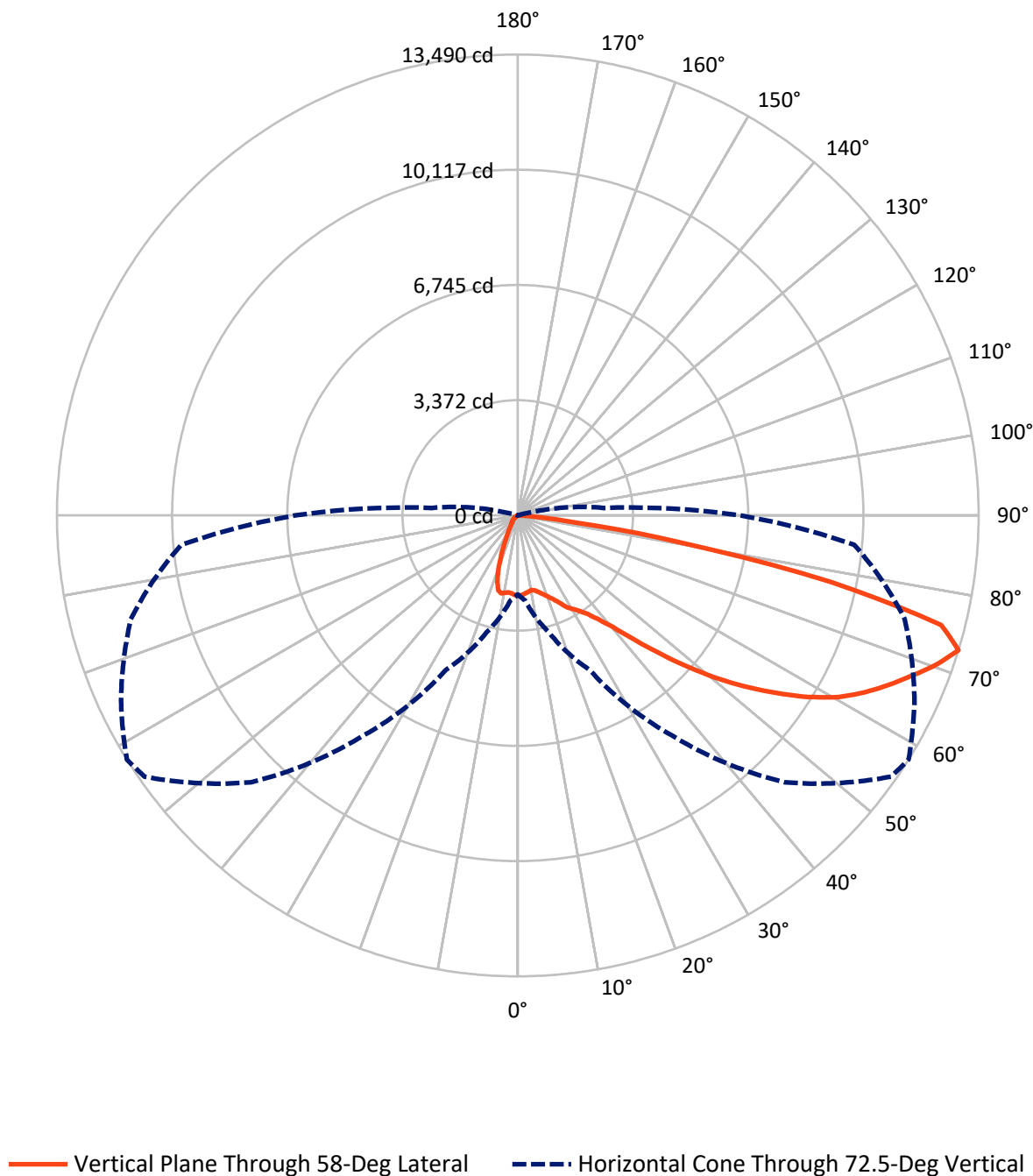


Based on 15 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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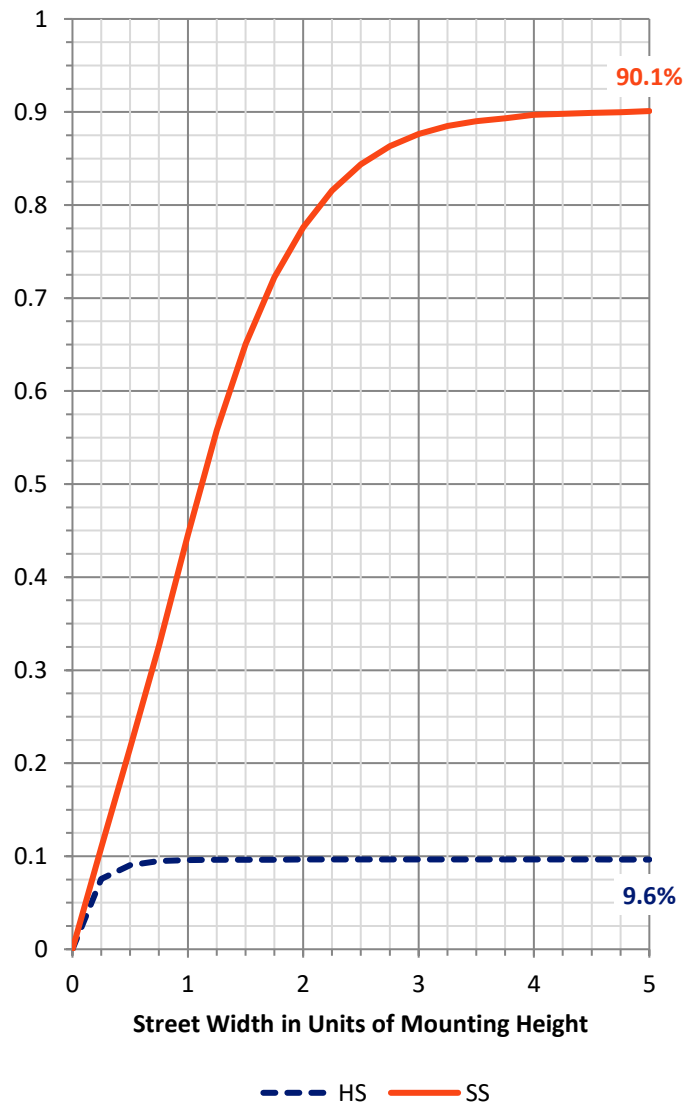
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.3	0.0	1907.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17706.1	0.0	17706.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	19613.4	0.0	19613.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	1.1
10°-20°	562.6	2.9
20°-30°	883.8	4.5
30°-40°	1524.1	7.8
40°-50°	2899.7	14.8
50°-60°	4592.2	23.4
60°-70°	5358.6	27.3
70°-80°	3356.1	17.1
80°-90°	220.3	1.1
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°	19613.4	100.0
0°-180°	19613.4	100.0

Coefficient of Utilization



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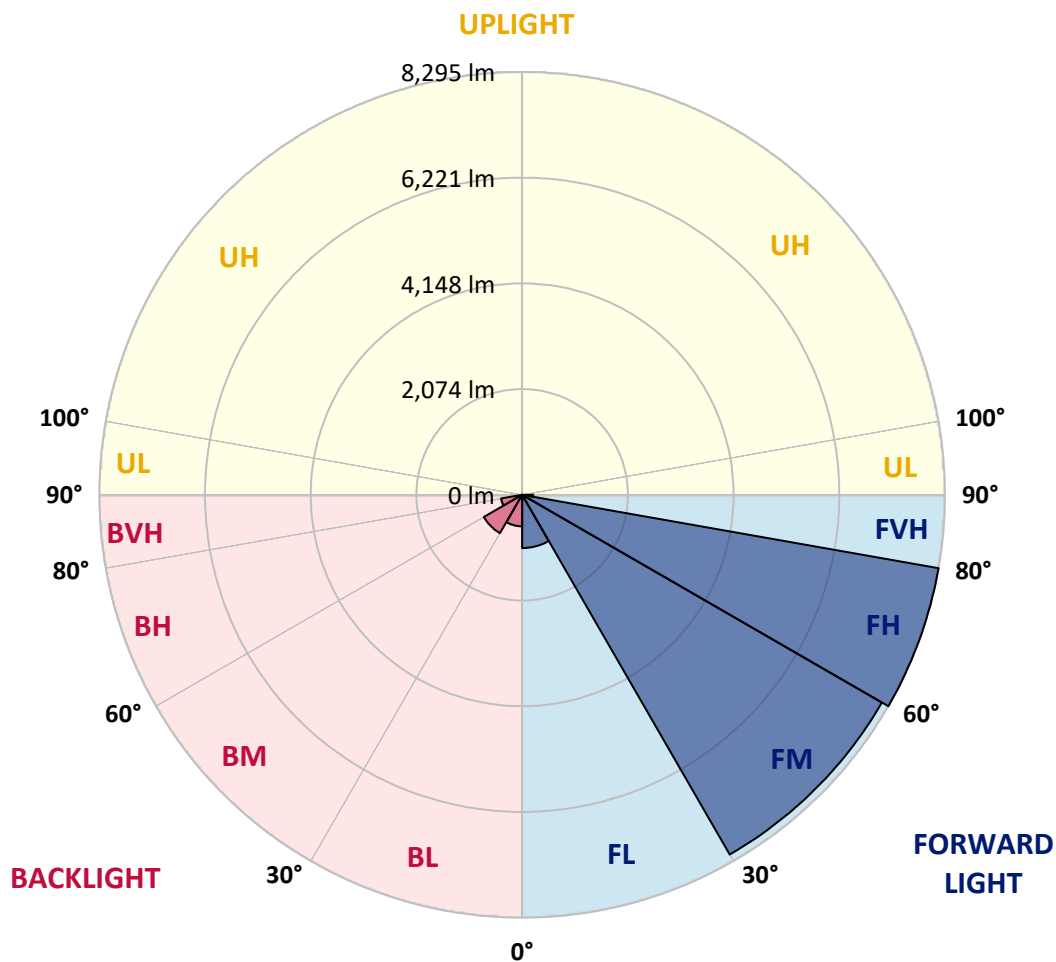
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1044.7	5.3			
FM	(30°-60°)	8148.2	41.5			
FH	(60°-80°)	8295.0	42.3			G4/12000
FVH	(80°-90°)	218.2	1.1			G2/225
BL	(0°-30°)	617.6	3.1	B2/1000		
BM	(30°-60°)	867.8	4.4	B1/1000		
BH	(60°-80°)	419.7	2.1	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2343.0	2332.5	2329.0	2325.4	2329.0	2332.5	2321.9	2332.5	2325.4	2329.0	2335.9
5°	2258.8	2248.2	2244.8	2248.2	2258.8	2276.3	2283.3	2293.9	2293.9	2304.4	2307.9
7.5°	2164.1	2157.1	2153.6	2160.6	2181.6	2220.2	2241.3	2255.3	2269.3	2290.4	2311.4
10°	2111.4	2108.0	2104.5	2115.0	2136.0	2171.1	2199.1	2220.2	2272.8	2332.5	2371.0
12.5°	2076.4	2076.4	2083.4	2104.5	2132.5	2160.6	2227.2	2255.3	2335.9	2427.1	2479.8
15°	2048.3	2048.3	2058.9	2097.4	2136.0	2202.7	2300.8	2332.5	2427.1	2539.3	2609.5
17.5°	2027.3	2034.3	2041.4	2079.9	2153.6	2265.8	2381.6	2427.1	2542.9	2665.6	2742.8
20°	2030.8	2037.8	2041.4	2079.9	2185.1	2339.4	2486.7	2539.3	2672.7	2802.4	2879.6
22.5°	2051.9	2062.3	2065.9	2118.5	2241.3	2416.7	2606.0	2665.6	2809.5	2946.3	3005.9
25°	2139.5	2146.5	2125.5	2171.1	2321.9	2535.9	2760.3	2823.5	2967.3	3093.6	3142.6
27.5°	2437.6	2444.7	2329.0	2276.3	2385.0	2634.1	2949.7	3037.4	3216.3	3300.5	3307.5
30°	3083.1	3090.0	2862.1	2613.0	2535.9	2718.3	3055.0	3177.7	3409.2	3503.9	3461.8
32.5°	3914.3	3907.2	3595.1	3226.8	2893.7	2865.5	3205.8	3335.6	3588.1	3679.3	3647.8
35°	4749.1	4759.5	4493.0	3938.8	3461.8	3142.6	3398.7	3549.5	3854.6	3984.5	3928.3
37.5°	5320.8	5391.0	5275.1	4675.4	4159.8	3654.7	3710.9	3872.2	4254.5	4429.9	4310.6
40°	6127.4	6109.9	5829.4	5387.4	4931.4	4412.4	4215.9	4293.1	4731.5	4966.5	4780.6
42.5°	7211.3	7176.2	6699.2	6267.8	5759.2	5334.8	4934.9	4920.9	5278.7	5552.3	5282.2
45°	8193.4	8140.8	7814.6	7397.2	6839.5	6351.9	5811.8	5689.0	5938.1	6169.6	5853.9
47.5°	8975.5	8887.8	8656.3	8435.3	8298.5	7541.0	6730.7	6544.9	6671.2	6843.0	6397.6
50°	9901.5	9659.5	9322.7	9189.4	9473.6	8887.8	7614.6	7435.8	7428.7	7527.0	6958.8
52.5°	10322.4	9884.0	9694.6	9806.8	10308.4	10140.0	8568.7	8312.6	8210.9	8221.4	7481.3
55°	9813.8	9764.7	9866.4	10217.1	10873.1	10774.8	9484.1	9168.4	9017.6	8828.2	7982.9
57.5°	9235.1	9385.9	9789.2	10459.2	11588.6	11437.8	10385.5	10027.7	9750.6	9315.7	8540.6
60°	8701.9	8856.3	9522.7	10515.3	11981.4	12076.1	11136.1	10795.8	10385.5	9813.8	9154.4
62.5°	7891.7	8011.0	8947.4	10434.6	11809.5	12447.9	11658.7	11402.7	11020.3	10287.3	9859.4
65°	6979.8	7056.9	7982.9	9789.2	11472.8	12405.8	12090.1	11946.3	11574.5	10781.8	10557.3
67.5°	5980.2	6071.4	6843.0	8628.3	10813.4	12209.4	12497.0	12482.9	12058.5	11329.0	11062.5
70°	4829.7	4836.7	5475.1	7155.1	9663.0	11816.5	13002.0	13033.6	12521.5	11739.4	11083.4
72.5°	2311.4	2500.8	3549.5	4994.6	7853.1	11044.9	13331.7	13489.6	12812.6	11725.3	9887.4
75°	529.6	547.2	1034.7	2374.5	4605.2	8477.5	12507.5	12802.1	12104.2	10140.0	6965.7
77.5°	192.9	203.4	291.1	694.4	1771.2	4380.8	8950.9	9382.4	8947.4	6555.4	3293.5
80°	129.7	126.3	150.8	308.7	813.7	1241.6	4577.2	4833.2	4412.4	2237.7	789.2
82.5°	66.6	70.2	105.2	171.9	547.2	431.4	1529.3	1662.5	1367.9	449.0	147.3
85°	31.6	31.6	59.7	108.8	231.5	150.8	340.2	410.4	368.2	196.5	49.1
87.5°	31.6	31.6	56.1	70.2	119.3	63.1	84.2	105.2	98.2	105.2	17.5
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°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2335.9	2332.5	2329.0	2335.9	2332.5	2339.4	2339.4	2346.5	2346.5	2339.4	2335.9
5°	2304.4	2297.4	2290.4	2290.4	2286.8	2293.9	2314.9	2332.5	2335.9	2325.4	2321.9
7.5°	2307.9	2307.9	2300.8	2286.8	2262.3	2262.3	2262.3	2283.3	2293.9	2286.8	2283.3
10°	2371.0	2374.5	2357.0	2325.4	2283.3	2244.8	2171.1	2062.3	1960.6	1932.6	1922.1
12.5°	2479.8	2483.3	2448.2	2392.1	2304.4	2076.4	1795.8	1536.2	1336.3	1280.2	1269.7
15°	2609.5	2613.0	2549.9	2458.7	2192.2	1662.5	1245.1	950.5	775.2	733.0	729.5
17.5°	2742.8	2735.8	2641.1	2465.7	1858.9	1178.5	757.6	606.7	561.2	550.7	554.2
20°	2872.6	2851.5	2721.8	2335.9	1431.0	771.6	554.2	519.1	508.6	501.6	501.6
22.5°	2991.8	2949.7	2788.4	2079.9	1003.1	554.2	494.5	487.5	473.5	463.0	459.5
25°	3111.1	3051.4	2830.5	1746.7	673.5	484.1	466.5	452.5	435.0	420.9	417.4
27.5°	3254.9	3170.7	2809.5	1325.8	505.0	449.0	435.0	413.9	389.3	368.2	361.3
30°	3391.7	3297.0	2690.2	915.4	431.4	413.9	392.8	361.3	329.7	305.1	298.2
32.5°	3563.5	3454.8	2476.2	599.8	375.3	361.3	340.2	301.6	259.6	231.5	224.5
35°	3809.1	3686.3	2202.7	420.9	329.7	305.1	277.1	235.0	189.4	168.3	164.8
37.5°	4152.8	3988.0	1858.9	340.2	291.1	256.0	213.9	171.9	140.3	122.8	119.3
40°	4573.7	4321.1	1476.7	301.6	259.6	213.9	161.4	122.8	101.7	87.7	87.7
42.5°	5029.7	4633.3	1087.3	277.1	228.0	175.4	119.3	87.7	73.7	66.6	63.1
45°	5499.6	4910.4	733.0	256.0	199.9	133.3	84.2	59.7	49.1	49.1	45.6
47.5°	5987.2	5096.3	473.5	231.5	168.3	98.2	56.1	42.1	35.1	35.1	35.1
50°	6471.2	5194.5	336.7	210.5	136.8	66.6	42.1	31.6	28.0	28.0	28.0
52.5°	6822.0	5131.4	270.1	182.4	105.2	49.1	31.6	24.6	21.1	21.1	21.1
55°	7127.1	5022.6	235.0	157.9	77.1	35.1	24.6	21.1	17.5	17.5	17.5
57.5°	7439.3	4882.3	210.5	133.3	56.1	24.6	17.5	14.0	14.0	14.0	14.0
60°	7723.4	4643.8	182.4	105.2	38.6	17.5	14.0	10.5	10.5	10.5	10.5
62.5°	8000.5	4440.4	157.9	80.6	28.0	14.0	7.0	7.0	3.5	3.5	3.5
65°	8158.3	4166.8	126.3	52.6	17.5	10.5	3.5	3.5	0.0	0.0	0.0
67.5°	8109.1	3840.6	87.7	31.6	10.5	7.0	3.5	0.0	0.0	0.0	0.0
70°	7768.9	3402.2	52.6	17.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	6506.3	2518.4	31.6	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
75°	4345.7	1157.4	17.5	10.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1988.7	347.3	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	399.9	91.2	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	84.2	17.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	7.0	0.0	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)