

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: P381129

Luminaire Tested: **PRV-XL-PA3B-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23972.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 234
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

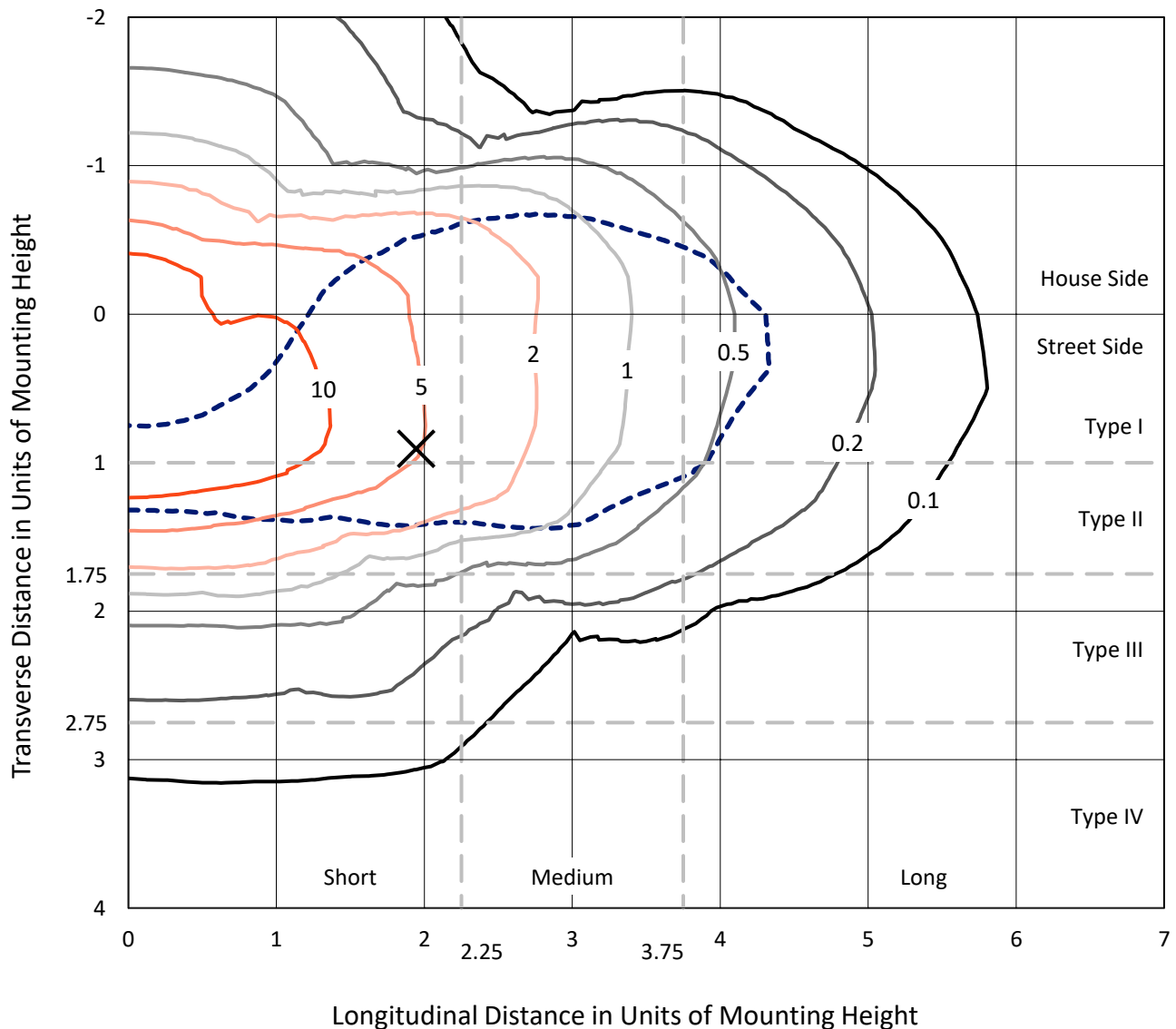


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

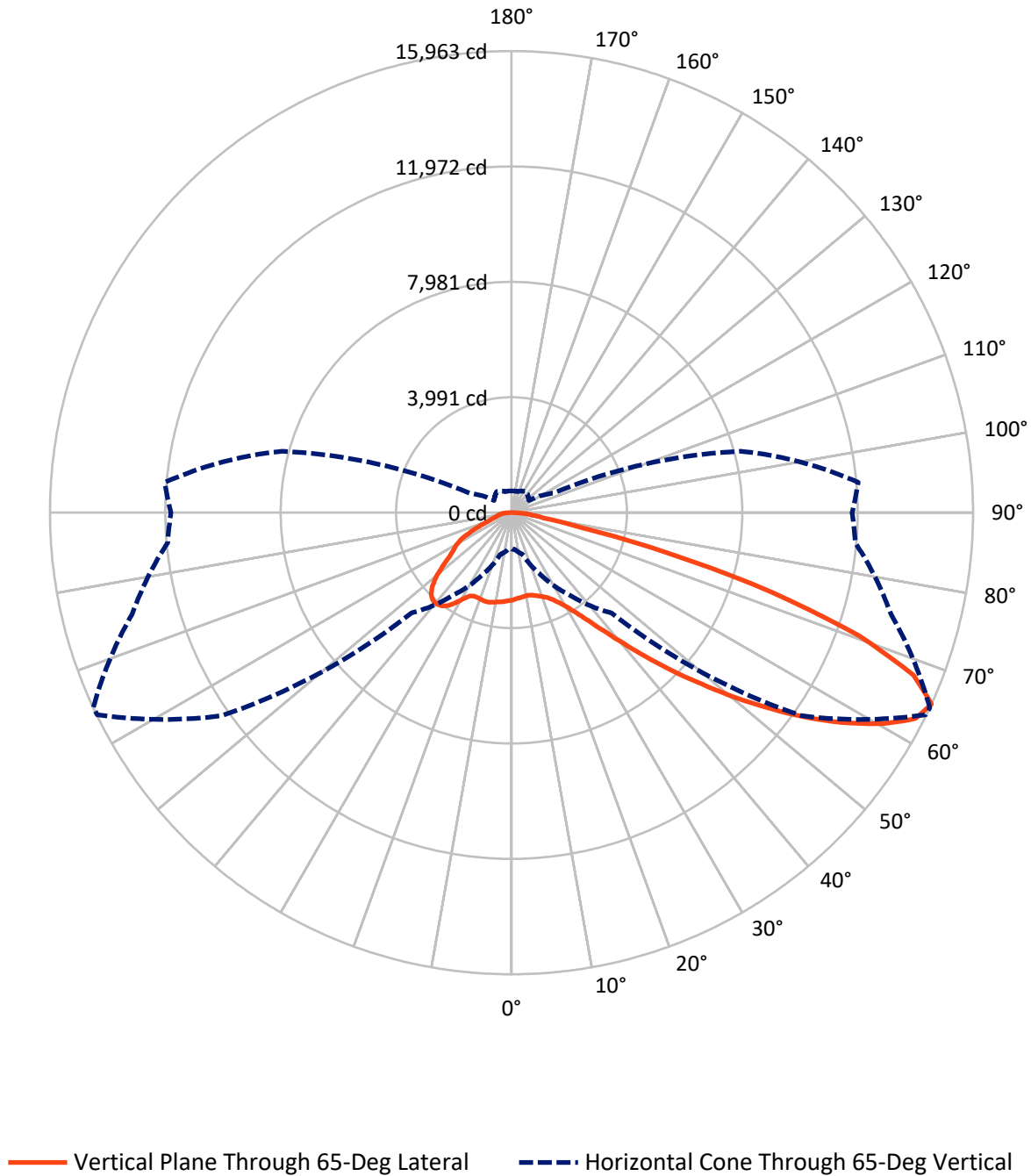


Based on 15 foot mounting height. Maximum calculated value = 18.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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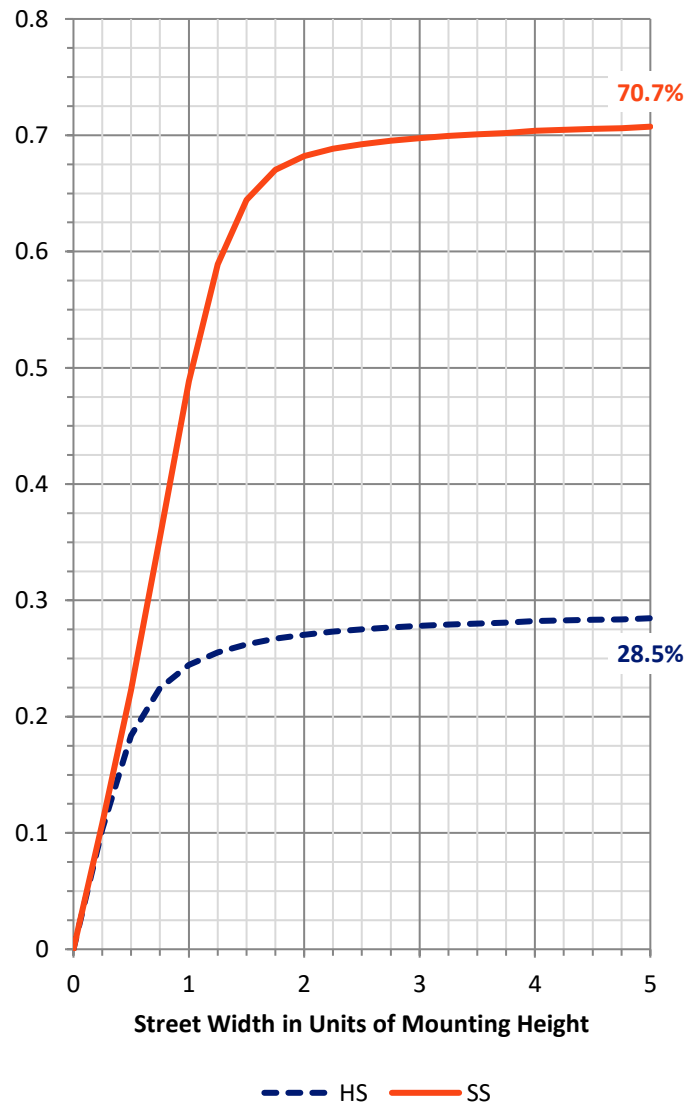
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6930.8	0.0	6930.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17041.6	0.0	17041.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	23972.3	0.0	23972.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.2
10°-20°	861.6	3.6
20°-30°	1530.5	6.4
30°-40°	2589.2	10.8
40°-50°	4507.3	18.8
50°-60°	5824.8	24.3
60°-70°	5097.0	21.3
70°-80°	2772.4	11.6
80°-90°	500.9	2.1
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°	23972.3	100.0
0°-180°	23972.3	100.0

Coefficient of Utilization



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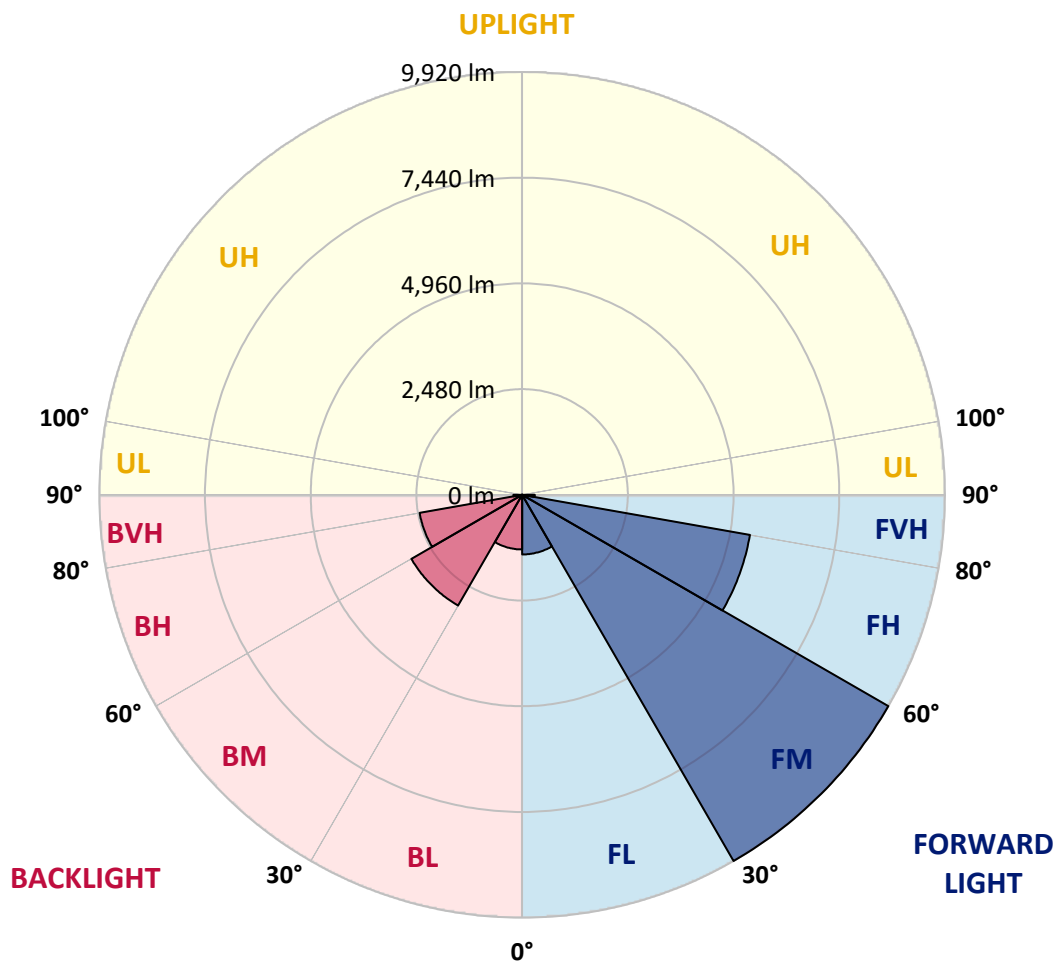
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.7	5.8			
FM	(30°-60°)	9920.4	41.4			
FH	(60°-80°)	5427.7	22.6			G3/7500
FVH	(80°-90°)	294.8	1.2			G3/500
BL	(0°-30°)	1281.9	5.3	B3/2500		
BM	(30°-60°)	3000.9	12.5	B3/5000		
BH	(60°-80°)	2441.8	10.2	B3/2500		G3/2500
BVH	(80°-90°)	206.2	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1
2.5°	2975.5	2972.3	2966.0	2972.3	2975.5	2981.8	2978.6	2985.0	2981.8	2991.3	3007.0
5°	2899.8	2893.4	2890.3	2906.1	2915.6	2931.3	2937.7	2959.7	2956.5	2972.3	2997.6
7.5°	2814.6	2814.6	2811.4	2830.3	2843.0	2871.3	2893.4	2931.3	2934.4	2962.9	2991.3
10°	2748.3	2751.5	2748.3	2764.1	2783.0	2817.7	2855.6	2909.2	2912.4	2953.4	2981.8
12.5°	2723.0	2723.0	2723.0	2745.1	2770.4	2817.7	2861.9	2918.7	2925.0	2969.2	2994.4
15°	2757.8	2760.9	2754.6	2776.7	2805.1	2861.9	2902.9	2962.9	2969.2	3010.2	3026.0
17.5°	2880.8	2893.4	2877.7	2890.3	2884.0	2928.2	2966.0	3026.0	3029.1	3063.9	3070.1
20°	3123.8	3136.4	3111.2	3095.4	3038.6	3035.5	3051.2	3098.6	3098.6	3120.6	3104.8
22.5°	3499.3	3511.9	3467.8	3407.8	3272.1	3205.8	3171.2	3193.2	3190.0	3199.5	3158.5
25°	3997.8	3994.7	3941.0	3830.6	3612.8	3451.9	3366.7	3332.1	3332.1	3313.1	3262.6
27.5°	4616.3	4569.0	4474.3	4341.7	4038.9	3814.9	3631.8	3543.5	3527.6	3470.9	3376.2
30°	5275.8	5241.0	5105.3	4912.9	4562.6	4275.5	3972.6	3795.9	3786.4	3663.3	3521.4
32.5°	6052.0	5995.2	5843.7	5613.3	5193.7	4789.8	4411.2	4143.0	4127.2	3931.6	3735.9
35°	7049.0	7001.7	6708.3	6477.9	5938.4	5408.3	4960.2	4603.6	4591.0	4351.2	4102.0
37.5°	8244.9	8121.9	7837.9	7405.6	6837.6	6209.7	5641.7	5193.7	5177.9	4912.9	4597.3
40°	9311.4	9201.0	8948.6	8551.0	7942.0	7244.7	6474.8	5932.1	5916.3	5594.5	5196.8
42.5°	10100.3	10024.5	9860.5	9630.1	9194.7	8771.9	7538.1	6825.0	6796.6	6380.1	5884.7
45°	10557.8	10497.8	10403.2	10460.0	10453.7	10374.8	8806.6	7888.3	7796.9	7257.3	6651.5
47.5°	10447.3	10393.7	10431.6	10873.4	11482.3	11939.8	10283.3	8976.9	8853.9	8150.2	7468.7
50°	9649.1	9671.1	9869.9	10715.6	12081.8	13097.9	11920.9	10217.1	10052.9	9049.5	8244.9
52.5°	8194.4	8248.0	8730.8	9914.1	12015.6	13848.8	13400.7	11498.1	11280.4	9926.7	8951.7
55°	6509.5	6645.2	7269.9	8513.2	11151.0	13902.5	14517.8	12785.5	12545.7	10750.3	9567.0
57.5°	4815.1	5017.0	5739.5	6881.8	9494.4	13053.7	15076.3	14016.1	13725.8	11567.5	10217.1
60°	3054.4	3177.4	4010.4	5357.8	7266.8	10977.4	15003.7	15063.7	14811.2	12381.6	10895.4
62.5°	1950.0	2010.0	2429.6	3821.1	5080.1	8128.2	14211.7	15855.6	15685.2	13123.1	11539.1
65°	1252.6	1277.9	1492.5	2350.7	3458.3	4906.6	12239.6	15940.8	15962.9	13586.9	11936.7
67.5°	1019.2	1031.8	1110.7	1451.4	2445.4	2710.4	8525.8	14729.2	14997.3	13467.1	11801.0
70°	927.7	943.4	1025.5	1158.0	1893.2	1871.1	4127.2	12324.8	12763.4	12776.0	11198.3
72.5°	782.5	804.6	915.0	1094.9	1464.1	1476.7	1748.0	8778.2	9425.0	11419.2	10292.8
75°	653.2	665.8	760.4	965.5	1240.0	1180.1	1227.4	4654.2	5588.1	9156.8	9330.4
77.5°	530.1	542.7	612.1	769.9	1101.2	918.2	965.5	1927.9	2382.3	6216.0	7626.5
80°	378.7	391.3	470.1	599.5	833.0	826.7	716.3	1063.3	1154.8	3360.5	4953.9
82.5°	271.4	280.9	356.6	429.2	577.5	829.8	539.6	722.6	757.3	1489.3	1997.4
85°	183.0	183.0	246.1	284.0	372.3	523.8	435.4	489.1	511.1	706.8	539.6
87.5°	78.8	78.8	132.6	145.2	195.6	243.0	325.0	246.1	252.4	381.8	220.9
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°	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1	3029.1
2.5°	3016.5	3019.6	3026.0	3044.9	3057.5	3076.5	3086.0	3098.6	3098.6	3092.2	3095.4
5°	3010.2	3019.6	3041.7	3076.5	3098.6	3133.3	3158.5	3177.4	3183.8	3177.4	3180.6
7.5°	3007.0	3022.8	3060.7	3111.2	3142.7	3186.9	3221.6	3243.7	3259.5	3253.1	3256.3
10°	2997.6	3022.8	3070.1	3133.3	3180.6	3224.8	3256.3	3265.8	3275.3	3268.9	3265.8
12.5°	3010.2	3038.6	3089.1	3164.8	3218.4	3253.1	3262.6	3246.9	3224.8	3212.2	3209.0
15°	3035.5	3063.9	3114.3	3193.2	3240.5	3253.1	3231.0	3180.6	3130.1	3101.7	3098.6
17.5°	3070.1	3089.1	3130.1	3199.5	3237.4	3221.6	3177.4	3117.5	3079.6	3057.5	3060.7
20°	3092.2	3092.2	3123.8	3177.4	3209.0	3196.4	3142.7	3076.5	3016.5	2988.1	2978.6
22.5°	3123.8	3108.0	3111.2	3158.5	3202.7	3183.8	3070.1	2953.4	2868.2	2836.7	2833.5
25°	3209.0	3164.8	3136.4	3164.8	3268.9	3114.3	2887.2	2751.5	2672.6	2644.2	2647.3
27.5°	3313.1	3253.1	3193.2	3240.5	3322.6	2956.5	2653.7	2499.0	2451.7	2429.6	2439.1
30°	3417.2	3338.3	3259.5	3429.9	3284.7	2710.4	2353.9	2202.4	2161.4	2145.7	2158.3
32.5°	3609.7	3480.4	3385.7	3682.3	3167.9	2429.6	2028.9	1890.1	1852.2	1833.2	1827.0
35°	3931.6	3767.5	3672.8	3903.2	3003.9	2117.2	1732.3	1634.4	1593.5	1552.5	1546.1
37.5°	4395.4	4196.6	4111.5	4029.4	2773.5	1808.0	1505.1	1438.8	1378.9	1315.8	1312.6
40°	4950.8	4692.0	4628.9	4086.2	2454.9	1517.7	1347.3	1284.2	1208.5	1148.6	1151.7
42.5°	5591.2	5260.0	5124.3	4070.4	2060.5	1363.1	1233.8	1164.3	1098.1	1044.4	1041.2
45°	6276.0	5900.5	5588.1	3959.9	1669.2	1255.9	1164.3	1082.3	1016.0	956.0	949.8
47.5°	7033.3	6613.6	6017.3	3745.4	1378.9	1180.1	1123.3	1006.5	946.6	908.7	908.7
50°	7796.9	7295.1	6411.7	3420.4	1208.5	1123.3	1063.3	965.5	918.2	886.7	886.7
52.5°	8450.1	8005.2	6736.7	3032.3	1101.2	1076.0	1022.4	946.6	896.1	867.7	864.6
55°	9084.2	8664.6	7027.0	2647.3	1012.9	1012.9	1012.9	930.8	874.1	848.8	845.6
57.5°	9715.3	9358.7	7329.9	2394.9	934.0	959.3	993.9	911.9	855.1	833.0	829.8
60°	10428.5	10191.8	7680.1	2218.2	864.6	902.4	968.7	889.8	823.6	804.6	801.5
62.5°	11185.7	11185.7	7998.8	1968.9	801.5	855.1	930.8	861.4	795.1	779.4	776.2
65°	11778.9	12034.5	8203.9	1596.6	738.4	807.7	886.7	823.6	757.3	754.1	747.8
67.5°	11848.4	12249.1	8074.5	1205.4	681.5	757.3	842.5	782.5	719.4	719.4	709.9
70°	11349.8	11756.8	7670.7	902.4	640.6	706.8	785.7	732.0	672.1	678.4	662.7
72.5°	10516.8	10617.7	6667.2	713.1	593.2	653.2	716.3	675.3	621.6	621.6	599.5
75°	9418.7	8857.1	4843.5	596.3	536.4	590.1	646.8	612.1	564.8	549.0	536.4
77.5°	7497.1	6418.0	2814.6	514.4	489.1	530.1	568.0	542.7	501.7	467.0	467.0
80°	4569.0	3761.1	1243.2	444.9	432.3	463.8	489.1	460.7	426.0	391.3	381.8
82.5°	1738.6	1451.4	602.7	381.8	378.7	397.6	416.5	388.1	362.8	347.1	299.7
85°	476.5	438.6	413.3	318.7	312.4	309.2	331.3	318.7	284.0	233.5	208.3
87.5°	179.9	205.1	224.0	195.6	208.3	192.5	220.9	201.9	179.9	116.7	104.1
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)