

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: P380875

Luminaire Tested: **PRV-XL-PA4B-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31076.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 303
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

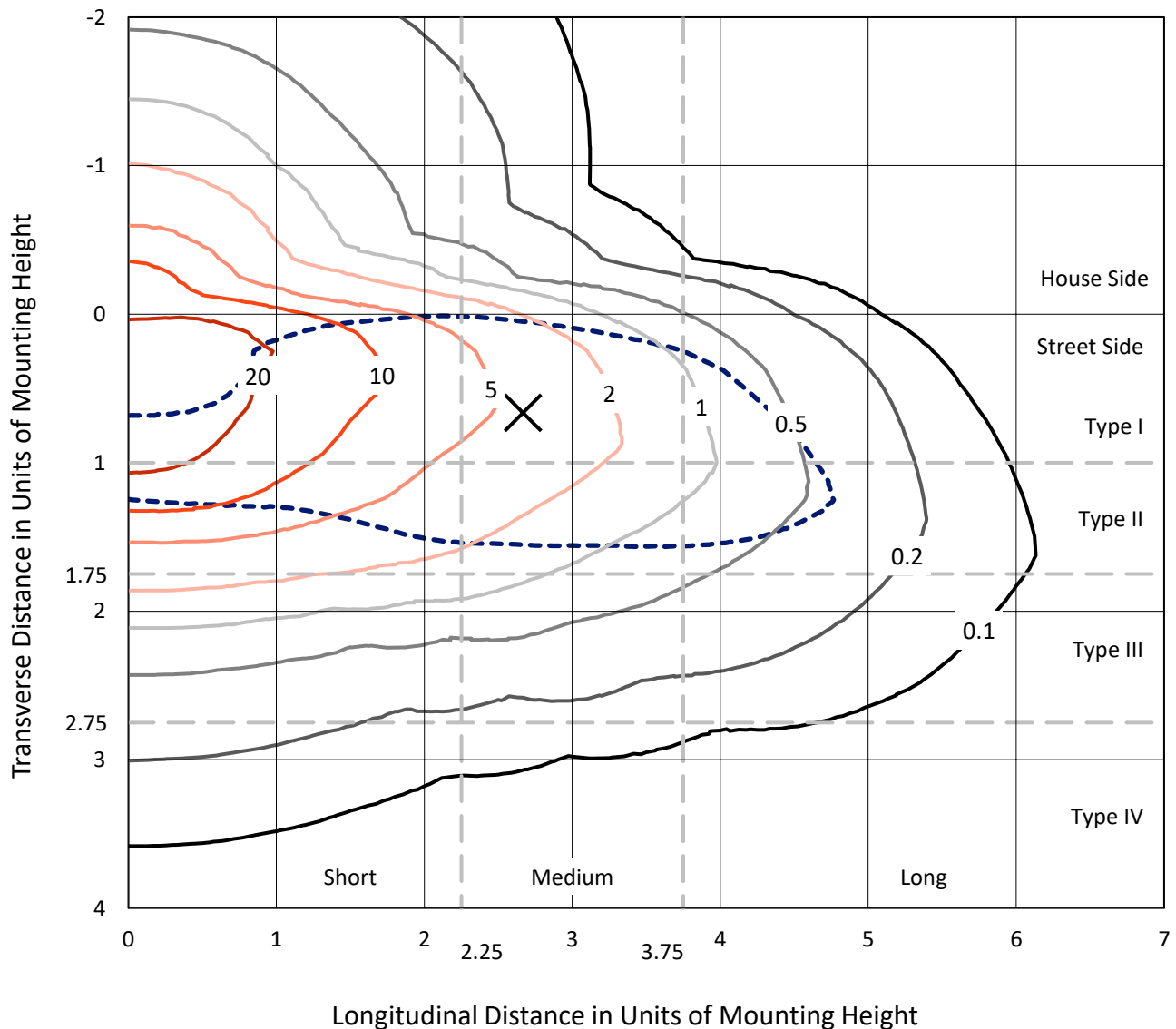


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

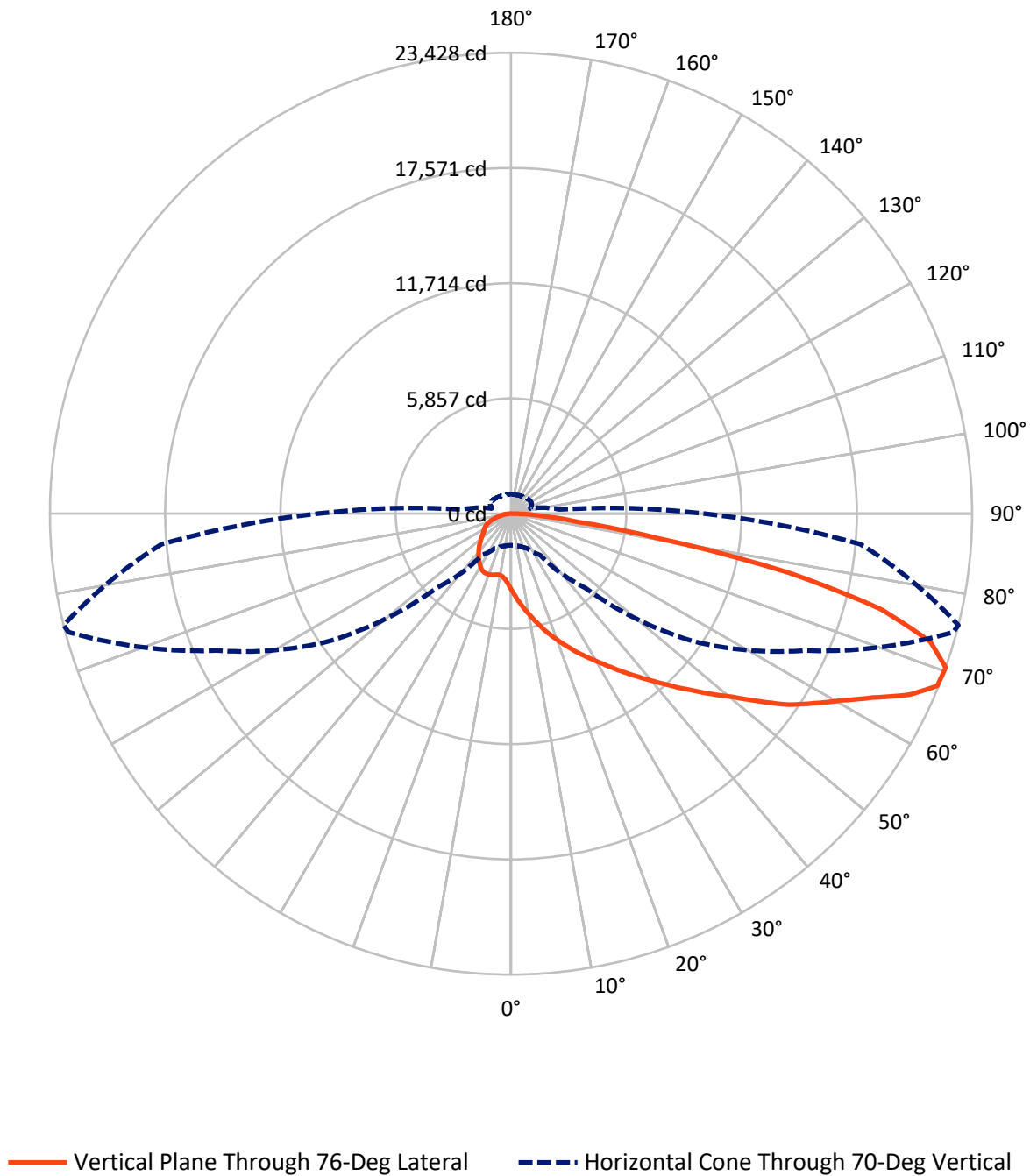


Based on 15 foot mounting height. Maximum calculated value = 29.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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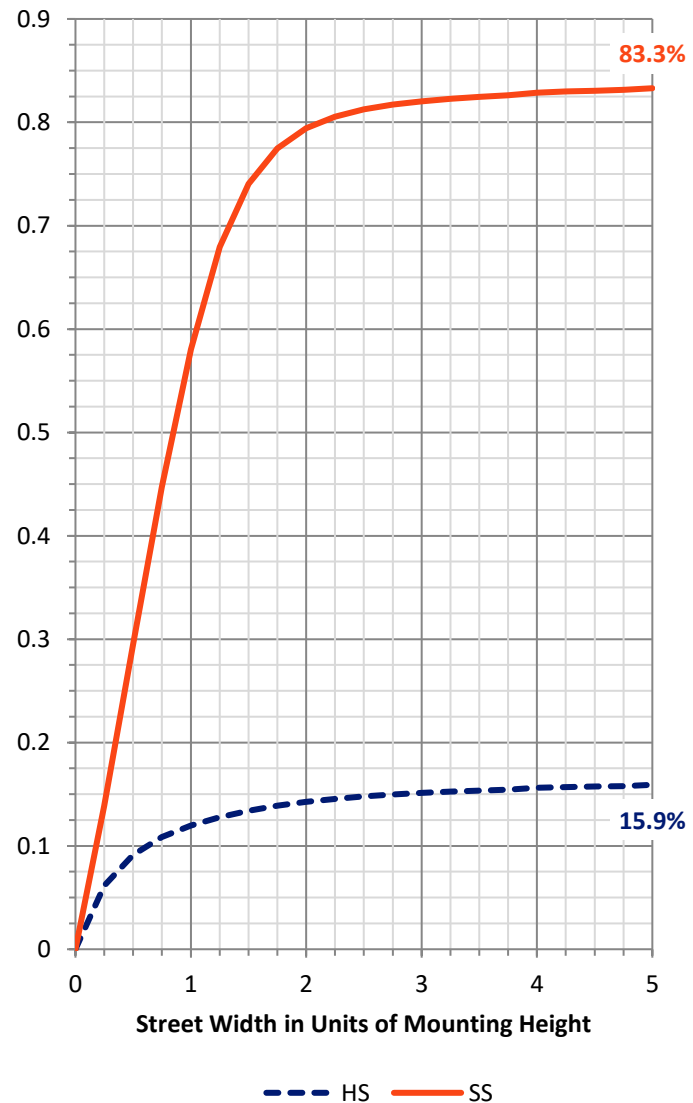
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5073.5	0.0	5073.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	26002.9	0.0	26002.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	31076.5	0.0	31076.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.8	1.3
10°-20°	1372.4	4.4
20°-30°	2455.4	7.9
30°-40°	3971.9	12.8
40°-50°	5746.0	18.5
50°-60°	6576.6	21.2
60°-70°	6049.7	19.5
70°-80°	3741.1	12.0
80°-90°	759.7	2.4
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°	31076.5	100.0
0°-180°	31076.5	100.0

Coefficient of Utilization



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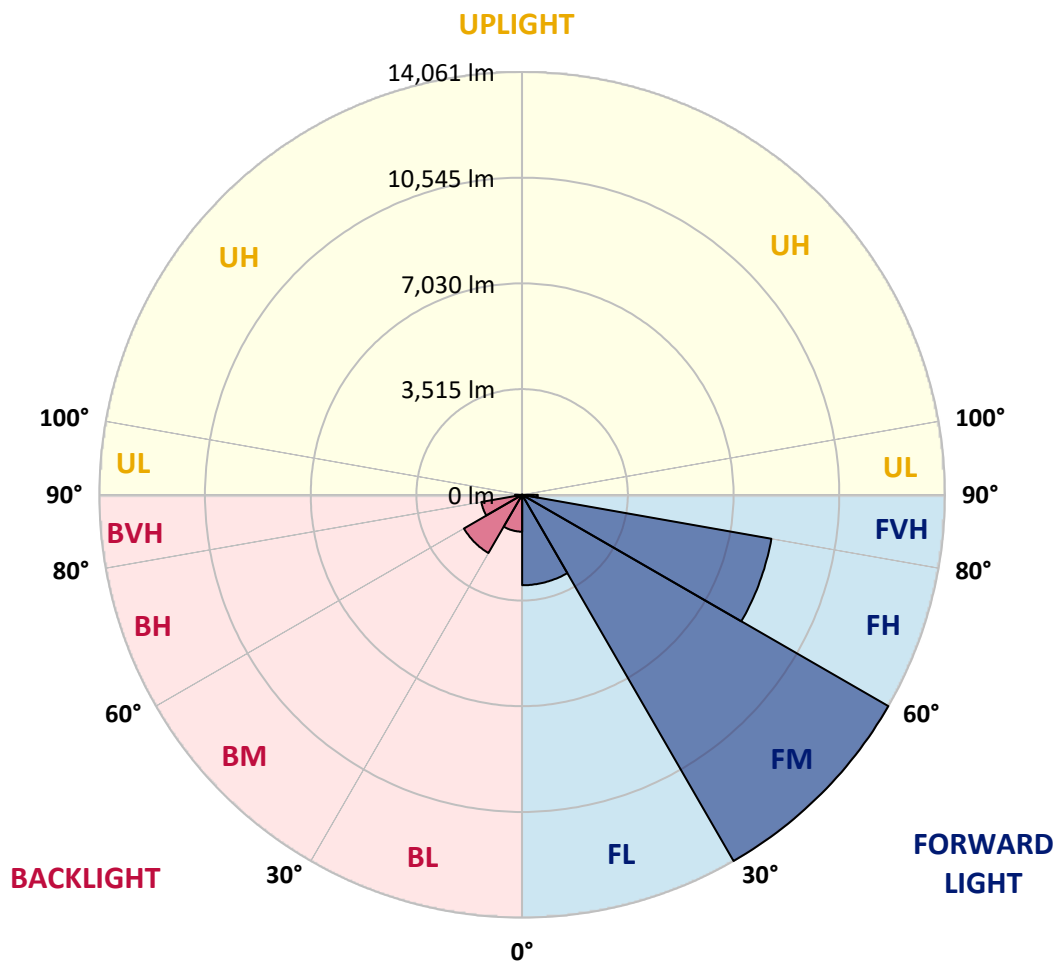
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3006.1	9.7			
FM	(30°-60°)	14060.6	45.2			
FH	(60°-80°)	8414.7	27.1			G4/12000
FVH	(80°-90°)	521.5	1.7			G4/750
BL	(0°-30°)	1225.4	3.9	B3/2500		
BM	(30°-60°)	2233.8	7.2	B2/2500		
BH	(60°-80°)	1376.1	4.4	B3/2500		G3/2500
BVH	(80°-90°)	238.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3
2.5°	4952.8	4916.1	4912.0	4854.8	4801.6	4658.6	4556.4	4376.7	4196.8	4192.7	4013.0
5°	5725.1	5688.4	5668.0	5598.4	5508.6	5320.6	5136.7	4858.8	4552.4	4531.9	4192.7
7.5°	6248.3	6215.5	6174.7	6146.1	6060.3	5892.7	5668.0	5336.9	4916.1	4875.2	4401.2
10°	6599.7	6579.2	6571.1	6550.7	6497.5	6362.7	6146.1	5794.7	5279.8	5234.8	4621.8
12.5°	6750.9	6742.7	6779.4	6836.7	6857.1	6804.0	6595.6	6264.5	5680.2	5631.2	4887.4
15°	6575.2	6583.3	6677.3	6873.5	7081.8	7196.3	7073.7	6750.9	6133.8	6064.3	5198.0
17.5°	6493.4	6505.7	6571.1	6759.0	7053.3	7408.8	7466.0	7212.7	6571.1	6473.0	5524.9
20°	6636.5	6652.8	6701.9	6849.0	7053.3	7433.3	7731.7	7654.0	7000.2	6898.0	5839.6
22.5°	7000.2	7020.6	7016.5	7110.5	7249.4	7510.9	7878.8	8070.8	7449.7	7335.2	6166.5
25°	7776.6	7760.2	7621.3	7576.3	7613.1	7780.7	8074.9	8471.3	7919.6	7805.2	6509.8
27.5°	8830.9	8810.5	8557.1	8328.2	8123.9	8197.5	8352.8	8794.1	8397.8	8267.0	6836.7
30°	9958.7	9934.2	9640.0	9268.1	8814.5	8708.3	8687.9	9076.1	8879.9	8741.0	7184.0
32.5°	11058.0	11037.6	10723.0	10289.8	9664.6	9345.8	9149.7	9390.8	9427.6	9292.6	7564.1
35°	12059.2	12059.2	11789.5	11274.7	10567.7	10085.4	9762.6	9779.0	10056.9	9901.6	7997.2
37.5°	12950.0	12946.0	12651.8	12145.0	11466.6	10915.0	10514.5	10248.9	10657.6	10522.7	8450.8
40°	13657.0	13628.4	13411.9	12970.5	12288.1	11740.5	11335.9	10800.5	11327.7	11205.1	8933.1
42.5°	14171.9	14155.6	14008.5	13624.4	12974.6	12459.7	12181.8	11495.3	12087.8	11965.3	9497.0
45°	14372.2	14404.9	14404.9	14041.1	13526.2	13056.3	12933.8	12259.4	12909.2	12786.6	10101.8
47.5°	14049.4	14135.2	14310.9	14335.4	13881.8	13563.0	13603.9	13027.7	13755.1	13689.7	10763.8
50°	13040.0	13199.3	13583.5	14278.2	14024.8	13951.3	14176.0	13812.4	14662.3	14641.9	11568.8
52.5°	10436.9	10825.1	12022.4	13268.8	13926.8	14131.0	14744.0	14695.0	15831.0	15863.7	12619.1
55°	8005.4	8152.5	9537.9	11658.7	13326.0	14073.9	15124.1	15557.3	17097.8	17138.7	13583.5
57.5°	6473.0	6571.1	7327.1	9537.9	11957.0	13763.3	15422.4	16059.9	18070.5	18176.7	14441.7
60°	5128.6	5271.5	5778.3	7298.5	10040.5	13015.4	15630.8	16619.7	19116.6	19276.0	15467.4
62.5°	3812.7	3882.2	4360.3	5406.5	7948.2	11671.0	15520.5	17228.6	20399.7	20591.8	16701.5
65°	2713.4	2774.7	3113.9	3845.4	5876.3	9852.5	14878.9	17682.3	22009.8	22206.0	17943.8
67.5°	2030.9	2055.5	2247.6	2688.9	3959.8	7654.0	13579.4	17604.6	23186.7	23362.4	18442.3
70°	1606.0	1614.2	1708.1	1945.1	2574.5	5328.8	11303.2	16464.5	23272.6	23427.8	17813.0
72.5°	1332.2	1328.1	1381.2	1495.7	1793.9	3371.4	8373.2	14347.6	22169.2	22275.4	16055.8
75°	1099.3	1107.5	1144.2	1209.6	1369.0	2223.0	5426.8	11446.2	19557.9	19443.5	13473.2
77.5°	923.5	919.5	935.8	993.0	1107.5	1597.8	3179.3	8271.1	14494.7	14437.6	8843.1
80°	743.8	751.9	776.4	825.4	931.7	1217.8	1879.7	5161.2	7776.6	7568.2	4225.5
82.5°	498.5	576.2	625.2	682.5	805.0	899.0	1193.3	2623.5	3477.6	3424.5	1916.5
85°	237.0	314.7	465.9	531.3	653.8	563.9	809.2	1250.5	1740.8	1720.4	690.6
87.5°	49.0	49.0	249.3	298.3	404.6	241.1	449.5	543.5	841.8	788.7	282.0
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°	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3	3886.3
2.5°	3906.7	3796.4	3575.6	3399.9	3220.2	3118.0	2991.3	2930.0	2917.8	2885.0	2909.5
5°	3976.2	3759.6	3342.8	3069.0	2885.0	2795.2	2750.2	2733.8	2729.8	2721.6	2721.6
7.5°	4070.1	3739.1	3195.7	2917.8	2799.2	2770.6	2782.9	2807.4	2811.5	2819.7	2815.6
10°	4184.6	3743.2	3113.9	2881.0	2823.7	2827.9	2868.7	2901.4	2917.8	2930.0	2925.9
12.5°	4343.9	3792.2	3101.6	2905.5	2881.0	2897.3	2938.2	2970.9	2987.2	2991.3	2991.3
15°	4552.4	3894.4	3130.3	2958.6	2938.2	2950.4	2974.9	2987.2	2991.3	2987.2	2987.2
17.5°	4781.2	4017.0	3171.2	2991.3	2958.6	2946.4	2938.2	2925.9	2901.4	2885.0	2885.0
20°	5001.9	4127.3	3191.5	2987.2	2930.0	2881.0	2832.0	2770.6	2729.8	2697.0	2697.0
22.5°	5222.5	4229.5	3191.5	2942.3	2852.4	2758.4	2656.2	2558.1	2496.8	2456.0	2456.0
25°	5455.5	4327.6	3167.0	2864.6	2729.8	2594.9	2456.0	2333.4	2272.1	2231.2	2223.0
27.5°	5651.6	4384.8	3101.6	2754.3	2578.6	2406.9	2247.6	2120.9	2076.0	2039.2	2039.2
30°	5860.1	4421.6	2979.1	2611.2	2406.9	2210.8	2047.3	1945.1	1896.1	1843.0	1839.0
32.5°	6092.9	4446.1	2840.1	2460.0	2231.2	2022.8	1883.9	1802.2	1695.9	1638.7	1630.5
35°	6362.7	4478.8	2693.0	2288.4	2055.5	1867.5	1785.8	1651.0	1548.8	1499.8	1495.7
37.5°	6648.7	4503.3	2533.6	2137.2	1896.1	1765.4	1683.6	1524.3	1434.4	1360.8	1352.6
40°	6951.1	4503.3	2370.1	1990.2	1769.4	1720.4	1565.1	1422.1	1270.9	1234.1	1225.9
42.5°	7286.2	4495.1	2206.7	1847.1	1651.0	1618.2	1495.7	1344.5	1266.8	1234.1	1225.9
45°	7641.8	4466.5	2051.4	1683.6	1528.3	1463.0	1369.0	1328.1	1295.4	1295.4	1295.4
47.5°	8046.3	4442.0	1875.7	1536.5	1438.4	1364.8	1295.4	1270.9	1266.8	1279.1	1291.3
50°	8565.2	4433.8	1728.6	1430.3	1369.0	1283.2	1275.0	1254.5	1258.7	1258.7	1258.7
52.5°	9194.6	4360.3	1589.6	1352.6	1299.5	1197.4	1221.9	1242.3	1250.5	1246.4	1242.3
55°	9656.3	4229.5	1471.1	1299.5	1250.5	1164.6	1197.4	1230.0	1238.2	1225.9	1225.9
57.5°	10073.2	4045.6	1377.1	1258.7	1217.8	1144.2	1181.0	1213.6	1205.5	1201.4	1197.4
60°	10551.3	3869.9	1303.6	1238.2	1185.1	1136.1	1168.7	1189.1	1176.9	1168.7	1164.6
62.5°	11070.3	3698.3	1250.5	1238.2	1160.6	1132.0	1156.5	1164.6	1140.1	1132.0	1132.0
65°	11311.4	3428.6	1193.3	1238.2	1148.3	1123.8	1132.0	1123.8	1099.3	1099.3	1095.2
67.5°	10915.0	2983.2	1119.7	1221.9	1164.6	1111.5	1095.2	1082.9	1054.3	1054.3	1046.2
70°	9819.8	2451.9	1013.4	1168.7	1168.7	1107.5	1046.2	1017.5	984.9	997.1	980.8
72.5°	8389.5	1945.1	882.7	1078.8	1144.2	1103.3	993.0	948.1	919.5	931.7	907.2
75°	6795.8	1507.9	727.4	935.8	1082.9	1082.9	939.9	878.6	845.9	845.9	817.3
77.5°	4331.7	1115.6	592.6	776.4	972.6	1054.3	895.0	800.9	751.9	739.6	719.2
80°	2145.4	784.6	486.3	617.1	829.6	988.9	862.2	711.0	641.6	617.1	580.3
82.5°	1140.1	543.5	388.2	482.2	662.0	890.8	821.4	613.0	527.2	490.4	449.5
85°	510.8	335.1	310.5	367.8	502.6	731.5	739.6	502.6	404.6	482.2	355.6
87.5°	188.0	151.2	151.2	188.0	290.1	306.5	523.0	322.8	257.5	175.7	138.9
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)