

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: P381003

Luminaire Tested: **PRV-XL-PA4B-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
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-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30581.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

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



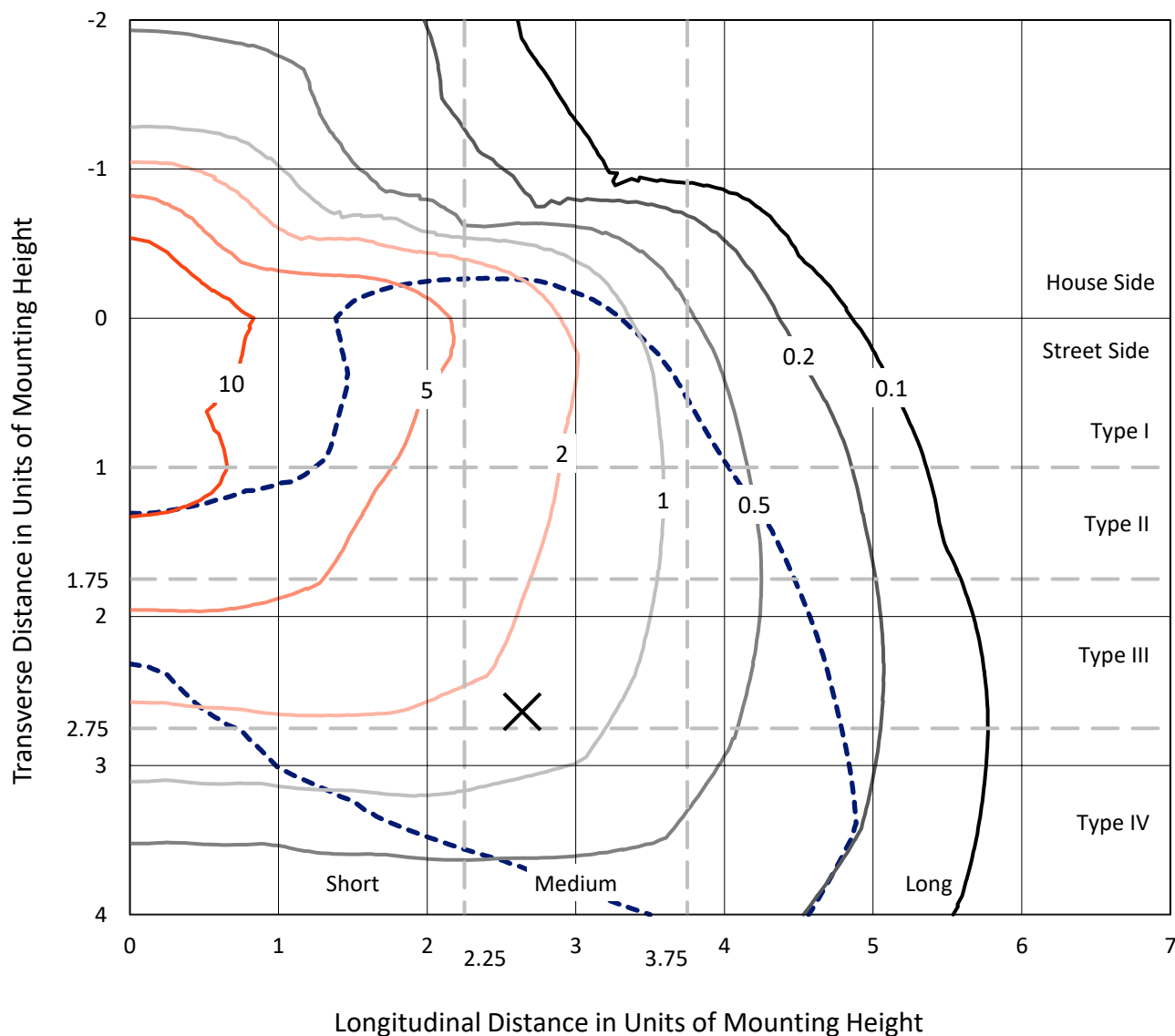
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

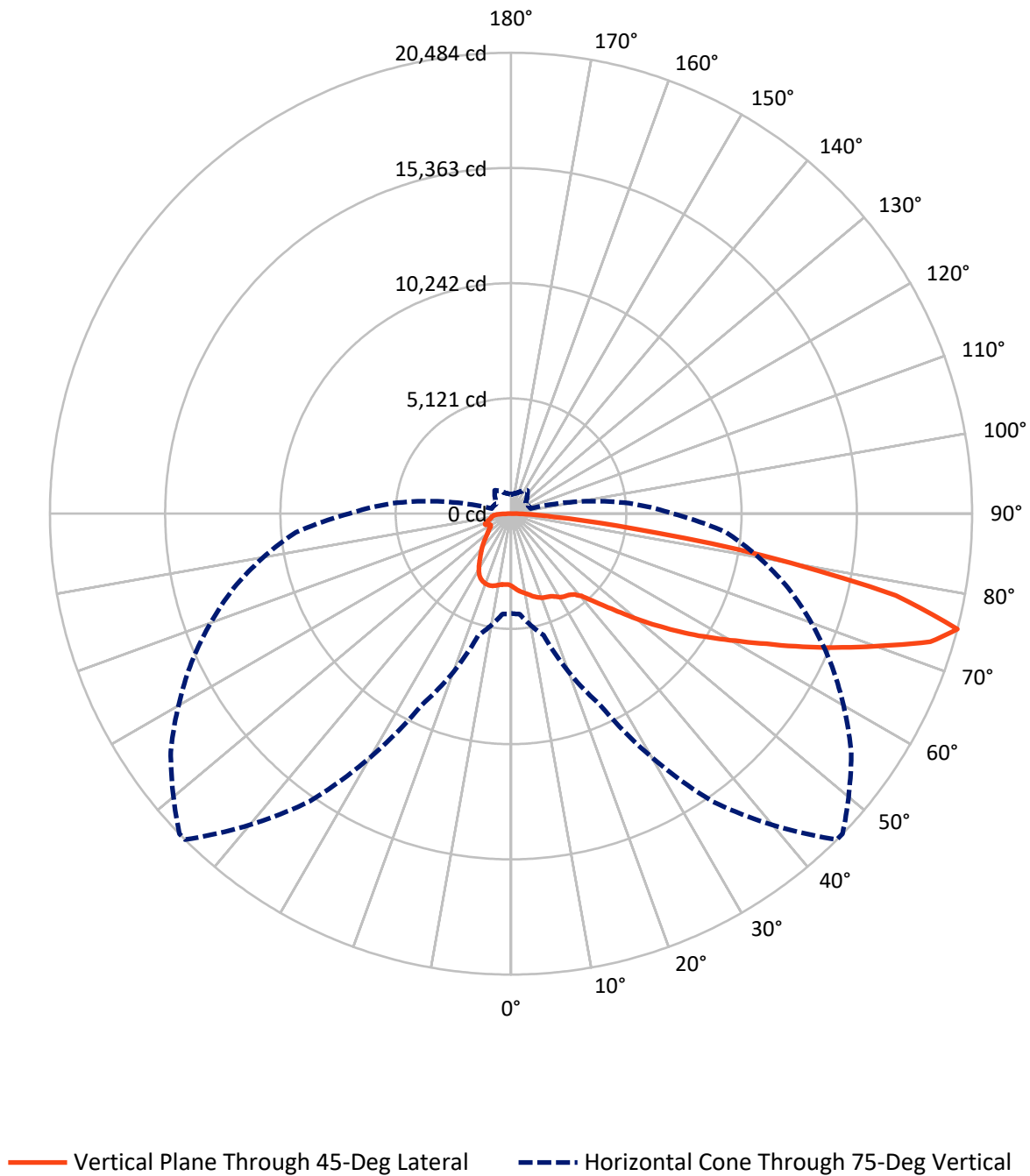


Based on 15 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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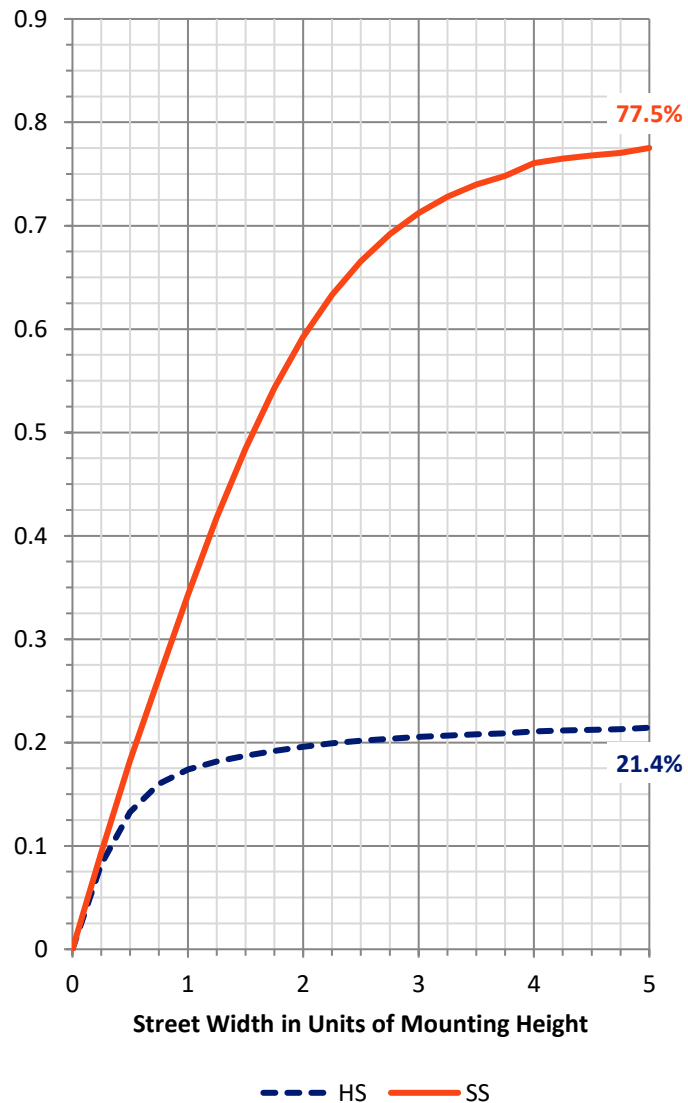
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6758.4	0.0	6758.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23823.2	0.0	23823.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	30581.6	0.0	30581.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.0
10°-20°	1010.8	3.3
20°-30°	1723.3	5.6
30°-40°	2414.6	7.9
40°-50°	3547.3	11.6
50°-60°	5645.6	18.5
60°-70°	8030.9	26.3
70°-80°	6724.3	22.0
80°-90°	1167.0	3.8
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°	30581.6	100.0
0°-180°	30581.6	100.0

Coefficient of Utilization



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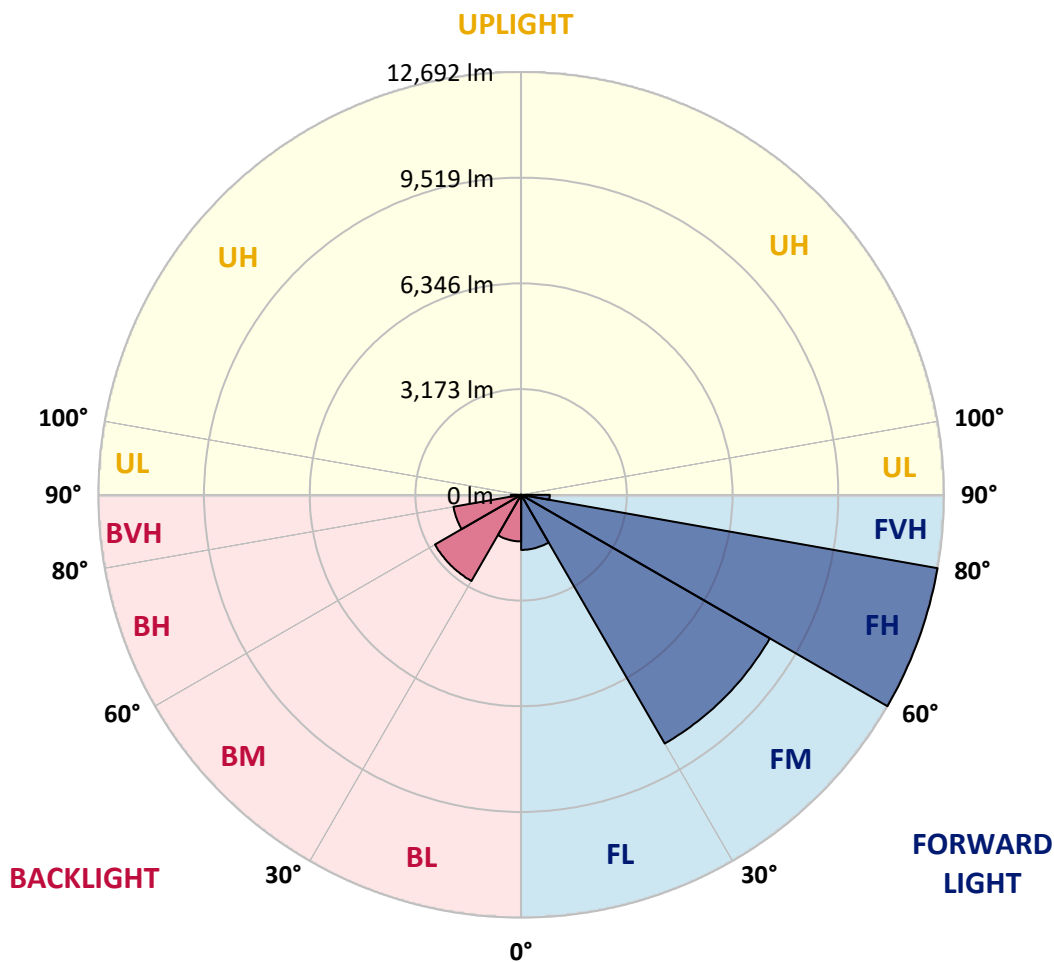
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1653.1	5.4			
FM	(30°-60°)	8620.0	28.2			
FH	(60°-80°)	12692.1	41.5			G5
FVH	(80°-90°)	857.9	2.8			G5
BL	(0°-30°)	1398.7	4.6	B3/2500		
BM	(30°-60°)	2987.5	9.8	B3/5000		
BH	(60°-80°)	2063.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	309.1	1.0			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7
2.5°	3395.6	3379.3	3371.1	3371.1	3338.4	3318.0	3313.9	3285.3	3260.8	3236.3	3215.9
5°	3591.8	3579.5	3555.0	3534.5	3489.6	3432.4	3424.2	3362.9	3301.6	3244.4	3195.4
7.5°	3771.6	3747.0	3718.4	3677.6	3604.0	3526.4	3514.1	3428.3	3342.5	3256.7	3191.3
10°	3922.8	3898.2	3857.4	3800.1	3706.2	3612.2	3599.9	3510.0	3420.1	3318.0	3224.0
12.5°	4065.7	4045.3	3984.1	3906.4	3796.1	3710.2	3698.0	3620.4	3526.4	3412.0	3289.4
15°	4188.3	4167.9	4102.5	4012.6	3886.0	3820.6	3804.2	3730.7	3636.7	3514.1	3387.4
17.5°	4249.7	4249.7	4180.2	4082.1	3963.6	3914.5	3902.3	3812.4	3726.6	3608.1	3481.5
20°	4270.1	4278.2	4229.2	4110.7	4008.6	3988.1	3975.8	3902.3	3804.2	3689.8	3571.3
22.5°	4282.3	4298.7	4257.8	4123.0	4037.1	4024.9	4016.7	3967.7	3890.0	3779.7	3661.2
25°	4323.2	4323.2	4294.6	4143.4	4073.9	4069.9	4069.9	4041.2	3988.1	3894.2	3775.6
27.5°	4384.5	4380.4	4343.6	4188.3	4155.6	4167.9	4163.8	4159.8	4123.0	4029.0	3902.3
30°	4486.7	4486.7	4445.8	4278.2	4257.8	4310.9	4315.0	4323.2	4265.9	4118.9	4016.7
32.5°	4641.9	4625.6	4584.7	4368.1	4335.5	4384.5	4392.6	4388.6	4339.5	4200.6	4151.5
35°	5120.0	5083.2	4936.1	4568.3	4404.9	4433.5	4437.6	4458.0	4466.2	4355.9	4331.3
37.5°	5957.7	5908.6	5683.9	5042.4	4625.6	4556.1	4552.0	4605.1	4650.1	4552.0	4552.0
40°	6868.9	6828.0	6697.2	5859.6	5034.1	4805.3	4789.0	4838.1	4895.2	4825.8	4846.2
42.5°	7653.4	7686.1	7698.4	6725.9	5647.1	5271.2	5226.2	5156.8	5246.6	5185.3	5267.1
45°	8241.9	8225.5	8450.2	7612.6	6439.9	5855.5	5794.2	5606.3	5720.7	5716.6	5896.4
47.5°	8867.0	8838.4	8932.4	8446.1	7342.9	6570.5	6476.6	6198.8	6370.3	6488.9	6787.1
50°	9459.5	9467.7	9500.4	9104.0	8323.5	7440.9	7322.5	6950.6	7195.8	7445.0	7865.9
52.5°	10231.8	10174.6	10133.7	9872.2	9422.8	8348.1	8270.4	7845.5	8188.7	8482.9	9042.7
55°	10906.0	10869.2	10844.7	10832.5	10342.1	9349.2	9267.4	8826.1	9320.6	9529.0	10354.4
57.5°	11625.2	11604.8	11735.5	11943.9	11747.7	10366.7	10280.9	9855.9	10407.5	10554.6	11776.4
60°	12152.3	12164.5	12524.2	13055.4	12920.5	11469.9	11367.8	10991.8	11465.9	11596.6	13198.4
62.5°	12156.4	12279.0	13112.6	14064.6	14219.9	12740.7	12622.2	12213.6	12552.7	12552.7	14473.3
65°	10995.9	11134.9	13006.3	14313.9	15535.7	14252.6	14138.2	13496.6	13623.3	13451.7	15670.5
67.5°	9839.6	10003.0	11764.1	14334.3	16459.1	15870.7	15735.9	14779.8	14563.2	14130.0	16508.1
70°	9071.3	9185.8	10656.8	14068.7	17014.9	17562.5	17460.3	15997.4	15302.8	14698.0	16332.4
72.5°	7637.1	7596.2	9001.8	12806.1	17325.4	19482.9	19397.1	17321.4	15944.3	14428.3	13929.8
75°	4433.5	4482.5	5585.8	9381.9	15617.4	20484.1	20475.8	18453.2	15662.3	12744.8	9598.5
77.5°	1279.0	1315.8	1834.7	4123.0	9876.3	17472.5	18032.3	16875.9	13239.2	9083.6	4977.0
80°	559.8	588.4	796.8	1373.0	4253.7	11412.7	11903.1	11412.7	7984.4	4167.9	1953.2
82.5°	331.0	351.4	519.0	849.9	2039.0	5430.6	6092.5	5320.3	3444.7	1769.3	809.1
85°	188.0	196.1	298.3	539.4	1283.0	1900.1	2133.0	1998.1	1679.5	1005.2	424.9
87.5°	85.8	89.9	147.1	253.4	719.2	641.5	666.0	882.6	972.5	612.9	212.5
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°	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7
2.5°	3207.6	3195.4	3170.9	3162.7	3150.5	3154.6	3158.6	3158.6	3162.7	3150.5	3150.5
5°	3175.0	3154.6	3130.0	3130.0	3130.0	3162.7	3191.3	3207.6	3215.9	3215.9	3207.6
7.5°	3162.7	3138.2	3109.6	3117.7	3125.9	3166.8	3219.9	3273.0	3289.4	3289.4	3281.2
10°	3187.2	3162.7	3142.3	3154.6	3175.0	3207.6	3248.5	3297.5	3338.4	3342.5	3338.4
12.5°	3244.4	3215.9	3195.4	3219.9	3244.4	3264.9	3285.3	3305.7	3358.8	3367.0	3367.0
15°	3338.4	3309.8	3285.3	3305.7	3313.9	3313.9	3313.9	3313.9	3367.0	3375.2	3375.2
17.5°	3432.4	3407.9	3383.3	3387.4	3362.9	3330.3	3318.0	3313.9	3342.5	3367.0	3371.1
20°	3522.3	3501.9	3477.4	3436.5	3375.2	3313.9	3293.5	3293.5	3309.8	3346.6	3346.6
22.5°	3620.4	3595.8	3555.0	3461.0	3358.8	3273.0	3252.6	3264.9	3285.3	3334.3	3330.3
25°	3730.7	3698.0	3628.5	3452.8	3305.7	3203.6	3207.6	3244.4	3281.2	3334.3	3334.3
27.5°	3853.3	3808.4	3669.4	3387.4	3187.2	3089.2	3125.9	3211.7	3264.9	3322.0	3330.3
30°	3988.1	3947.3	3702.1	3273.0	2995.2	2905.2	2995.2	3134.1	3215.9	3268.9	3281.2
32.5°	4151.5	4118.9	3730.7	3125.9	2745.9	2668.3	2799.1	2970.6	3101.4	3162.7	3175.0
35°	4355.9	4323.2	3767.5	2958.4	2513.0	2431.3	2549.8	2725.5	2897.1	2974.8	2999.3
37.5°	4621.5	4572.4	3800.1	2778.6	2316.9	2222.9	2280.1	2439.4	2594.7	2701.0	2729.5
40°	4960.6	4883.0	3828.8	2574.3	2145.3	2039.0	2059.4	2137.0	2227.0	2321.0	2357.7
42.5°	5438.7	5283.4	3832.9	2357.7	1969.6	1871.4	1863.3	1887.8	1887.8	1887.8	1900.1
45°	6104.7	5810.6	3841.0	2153.4	1789.8	1687.6	1663.1	1654.9	1593.6	1475.1	1467.0
47.5°	6946.5	6501.1	3877.8	1981.8	1601.8	1511.9	1479.2	1446.5	1332.1	1209.5	1185.0
50°	8025.3	7302.0	3951.3	1818.4	1442.4	1381.1	1340.3	1262.7	1136.0	1041.9	1017.4
52.5°	9267.4	8254.1	4020.8	1646.7	1323.9	1283.0	1234.0	1140.0	1005.2	948.0	939.8
55°	10693.5	9316.5	4159.8	1495.5	1221.8	1193.1	1148.2	1058.3	956.2	915.3	911.3
57.5°	12152.3	10505.6	4355.9	1360.7	1123.7	1107.3	1107.3	1029.7	964.3	948.0	948.0
60°	13558.0	11527.1	4204.7	1234.0	1033.8	1041.9	1119.6	1099.2	1050.2	1070.6	1082.8
62.5°	14649.0	12127.8	3412.0	1131.9	968.4	1041.9	1242.2	1242.2	1185.0	1176.8	1176.8
65°	15114.8	12119.6	2398.6	1054.2	943.9	1144.1	1385.2	1319.8	1168.6	1111.5	1099.2
67.5°	14996.3	11588.4	1654.9	1001.1	935.8	1250.4	1450.6	1266.7	1095.1	1046.1	1009.3
70°	13954.3	10464.7	1274.9	952.0	923.5	1205.4	1430.1	1205.4	1037.9	992.9	960.3
72.5°	11257.4	8393.1	1058.3	903.0	874.5	1115.5	1360.7	1148.2	992.9	943.9	911.3
75°	7179.4	5279.4	894.9	837.7	780.5	1001.1	1266.7	1091.0	943.9	878.5	854.0
77.5°	3452.8	2276.0	780.5	760.1	702.8	927.5	1172.7	1017.4	878.5	825.4	809.1
80°	1397.5	1041.9	678.3	682.4	645.6	882.6	1107.3	948.0	813.1	755.9	727.3
82.5°	727.3	604.8	572.1	588.4	588.4	841.7	1058.3	890.8	755.9	731.4	637.4
85°	392.3	375.9	441.3	474.0	510.8	760.1	984.8	829.5	690.5	592.5	572.1
87.5°	192.1	245.2	249.2	286.0	355.5	608.9	829.5	694.7	576.1	478.1	469.9
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)