

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: P381387

Luminaire Tested: **PRV-XL-PA4B-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21645.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

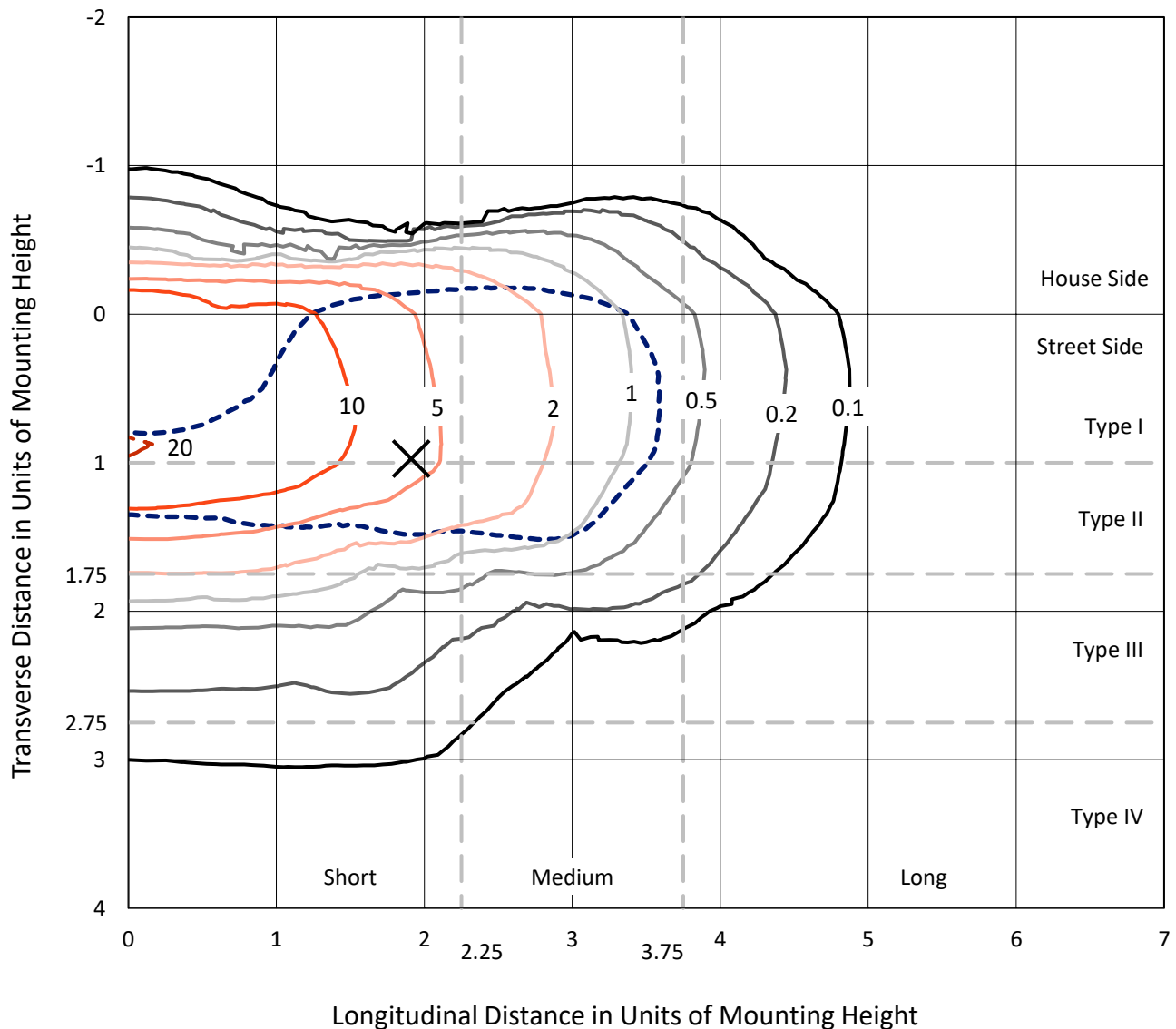


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

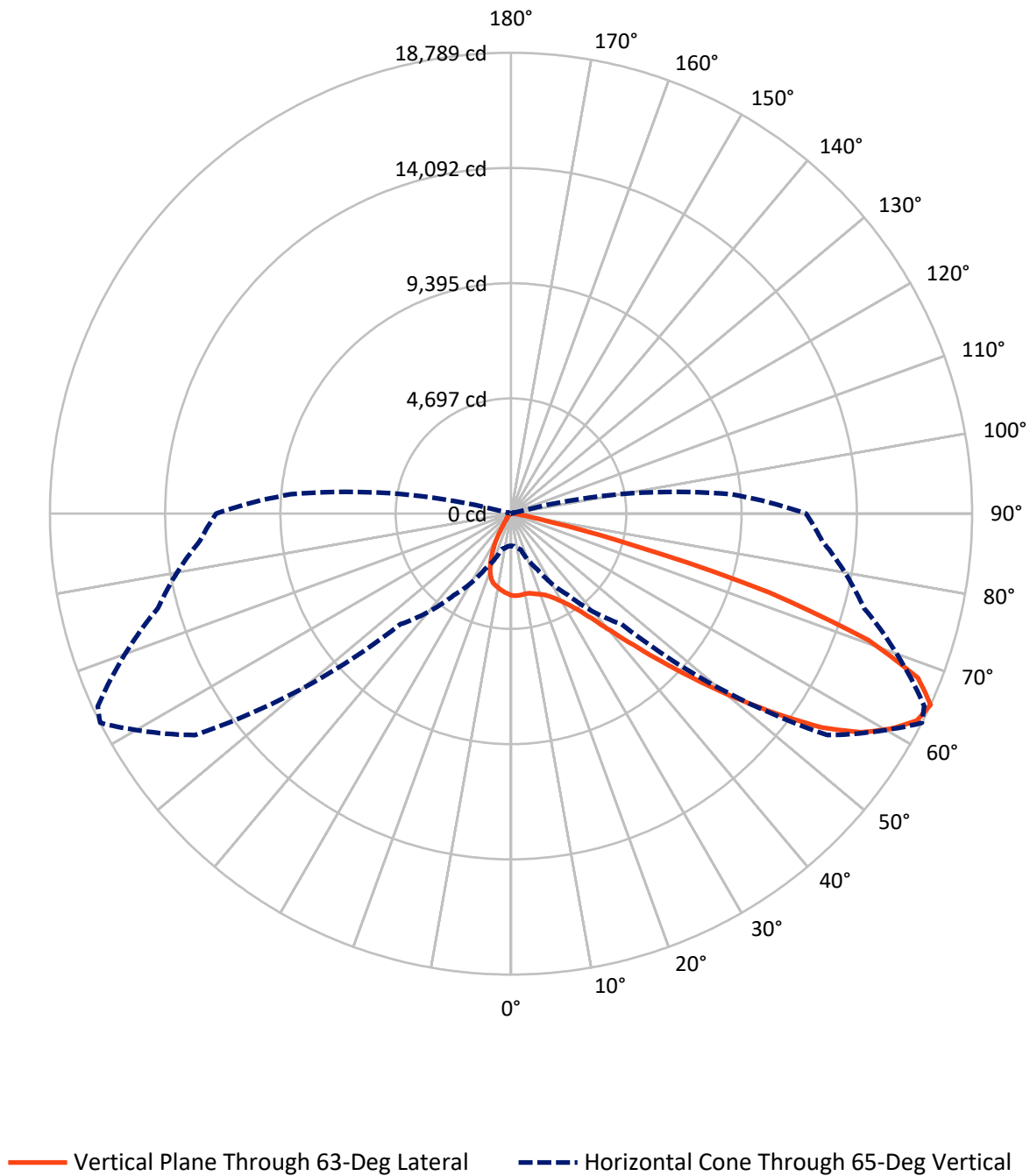


Based on 15 foot mounting height. Maximum calculated value = 20.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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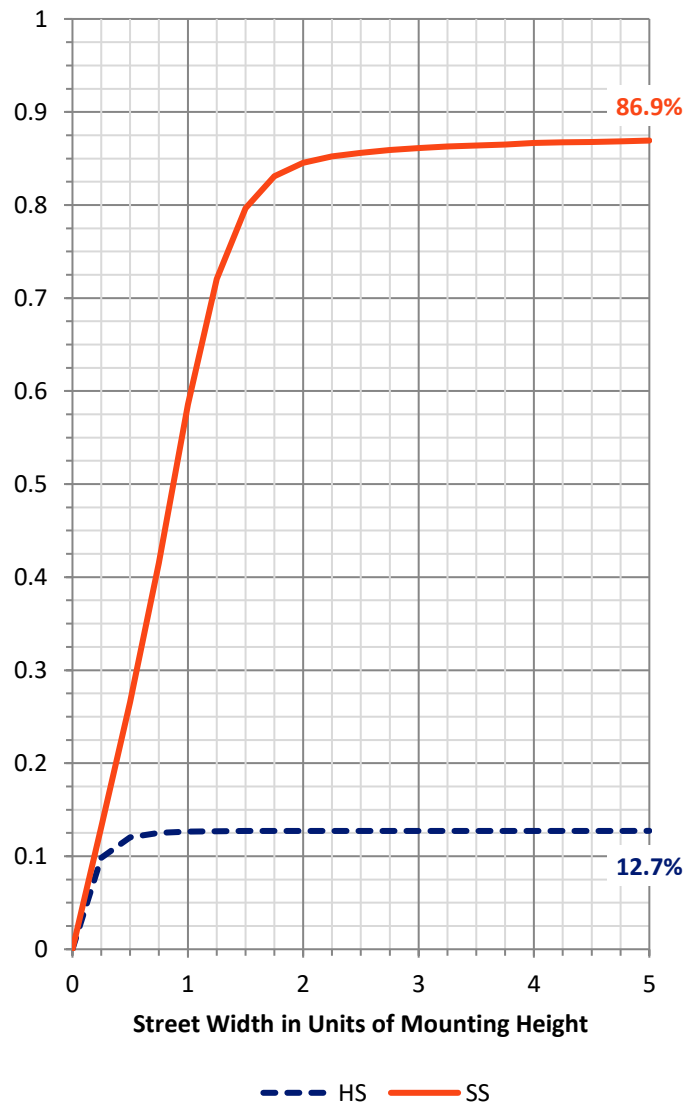
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.7	0.0	2785.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	18859.5	0.0	18859.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	21645.2	0.0	21645.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	1.4
10°-20°	750.6	3.5
20°-30°	1112.5	5.1
30°-40°	2065.6	9.5
40°-50°	4375.9	20.2
50°-60°	6050.8	28.0
60°-70°	4843.8	22.4
70°-80°	2012.5	9.3
80°-90°	129.2	0.6
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°	21645.2	100.0
0°-180°	21645.2	100.0

Coefficient of Utilization



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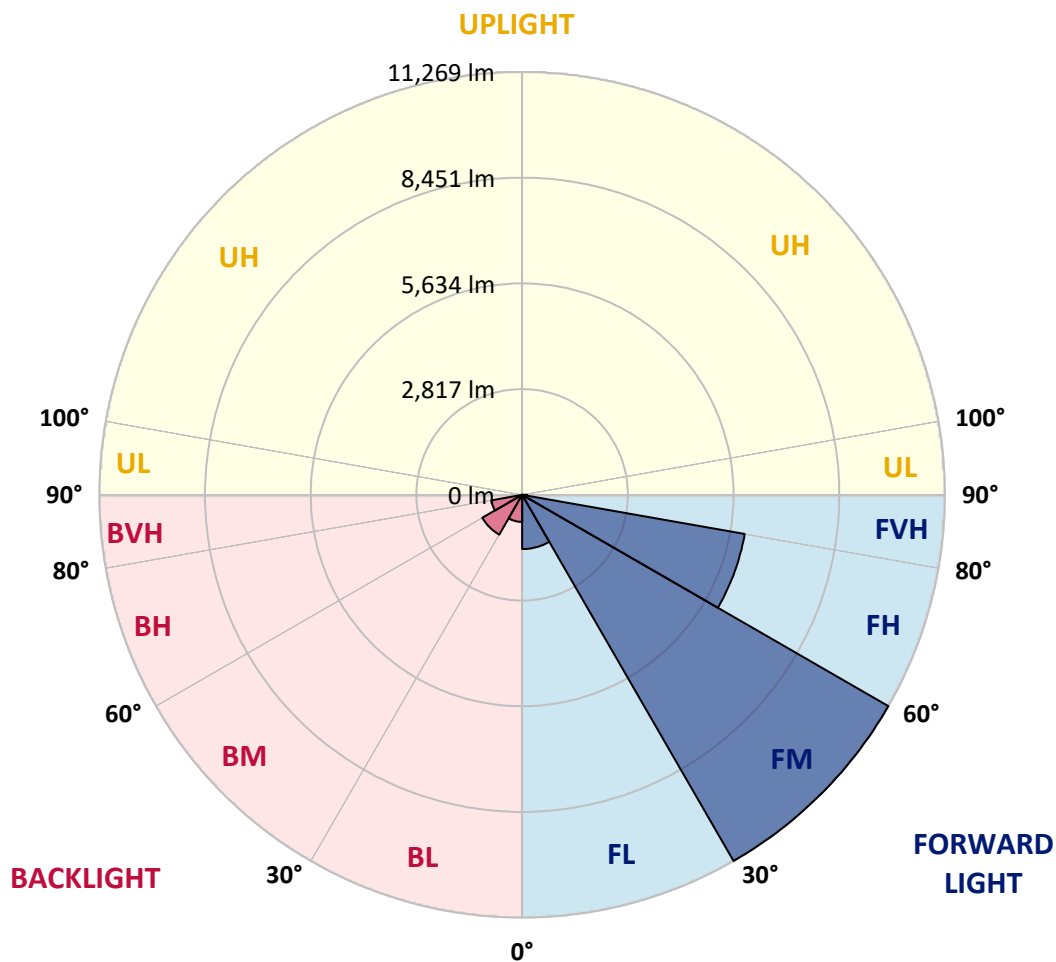
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.4	6.7			
FM	(30°-60°)	11268.6	52.1			
FH	(60°-80°)	6022.2	27.8			G3/7500
FVH	(80°-90°)	123.3	0.6			G2/225
BL	(0°-30°)	722.0	3.3	B2/1000		
BM	(30°-60°)	1223.7	5.7	B2/2500		
BH	(60°-80°)	834.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	5.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5
2.5°	3391.6	3383.5	3375.4	3371.2	3371.2	3367.1	3350.8	3346.7	3338.6	3330.4	3322.2
5°	3359.0	3346.7	3342.6	3346.7	3350.8	3359.0	3350.8	3350.8	3342.6	3334.5	3318.1
7.5°	3277.2	3269.1	3273.2	3285.4	3289.5	3318.1	3322.2	3334.5	3334.5	3326.3	3314.0
10°	3179.2	3175.1	3175.1	3195.5	3215.9	3256.8	3285.4	3318.1	3322.2	3322.2	3301.8
12.5°	3105.6	3101.5	3113.8	3138.3	3179.2	3232.3	3281.3	3330.4	3338.6	3342.6	3310.0
15°	3060.7	3060.7	3077.0	3126.0	3183.3	3256.8	3314.0	3379.4	3387.6	3383.5	3338.6
17.5°	3019.8	3023.9	3056.6	3138.3	3203.7	3301.8	3371.2	3444.8	3448.9	3444.8	3371.2
20°	3003.4	3011.7	3060.7	3166.9	3240.4	3350.8	3440.7	3514.3	3518.3	3502.0	3403.9
22.5°	3048.5	3052.5	3113.8	3228.2	3297.7	3420.3	3534.7	3604.1	3608.2	3583.7	3453.0
25°	3203.7	3203.7	3256.8	3354.9	3416.2	3538.8	3661.4	3743.1	3743.1	3714.5	3563.3
27.5°	3567.3	3534.7	3522.4	3551.1	3571.5	3702.3	3833.0	3935.1	3931.1	3890.2	3706.3
30°	4270.2	4188.5	4057.7	3910.6	3837.1	3927.0	4049.6	4180.4	4176.3	4110.9	3882.0
32.5°	5451.2	5332.7	5022.2	4634.0	4319.3	4217.1	4331.6	4474.5	4478.6	4401.0	4164.0
35°	7106.2	6918.2	6362.4	5823.0	5103.8	4715.6	4748.3	4903.6	4952.6	4911.8	4638.0
37.5°	8699.8	8528.2	7997.0	7249.2	6272.5	5479.8	5340.8	5475.7	5532.9	5532.9	5242.8
40°	10305.8	10105.6	9635.6	8883.8	7854.0	6673.0	6174.5	6284.8	6346.1	6358.4	5978.4
42.5°	11592.9	11462.2	11102.6	10518.3	9553.9	8765.2	7375.9	7314.6	7371.8	7326.8	6832.4
45°	12483.8	12381.7	12132.4	11911.7	11441.8	11045.4	8981.8	8569.1	8605.9	8450.6	7792.7
47.5°	12667.7	12553.3	12500.1	12806.6	13141.7	13239.7	10955.5	10060.6	10023.8	9680.5	8789.7
50°	11866.8	11879.0	12075.2	12949.6	14347.1	15229.8	13243.9	11744.1	11609.3	10845.2	9717.3
52.5°	10138.2	10334.3	10828.8	12246.8	14714.9	16676.4	15532.2	13529.9	13321.5	11977.1	10412.0
55°	7931.6	8184.9	8998.2	10628.6	13946.7	17322.1	17461.0	15385.1	14911.1	12827.0	10951.4
57.5°	5896.6	5974.2	6922.3	8409.7	12128.3	16688.6	18449.9	16815.3	16206.5	13505.4	11486.8
60°	3673.6	3722.7	4723.8	6403.3	9186.2	14347.1	18449.9	17800.2	17219.9	14114.3	11977.1
62.5°	2284.2	2300.6	2676.5	4388.7	6244.0	10640.9	17685.7	18564.3	18098.4	14551.5	12398.0
65°	1315.8	1332.1	1507.9	2480.4	4061.8	6370.6	15732.4	18789.0	18580.7	14898.8	12724.9
67.5°	960.3	968.5	1037.9	1393.4	2656.1	3273.2	11817.7	17886.0	18147.5	15070.5	12716.7
70°	833.6	845.9	935.8	1087.0	1916.5	2010.5	6015.1	15446.4	16177.9	14825.2	12336.7
72.5°	641.6	657.9	792.8	1021.6	1405.7	1446.6	2178.0	10992.3	12099.7	13292.9	11294.7
75°	441.3	457.7	592.5	841.8	1160.6	1082.9	1197.3	5058.9	6382.9	8916.4	8597.7
77.5°	282.0	286.0	371.8	612.9	1001.1	768.2	821.4	1650.9	2317.0	4033.2	4057.7
80°	188.0	192.1	228.9	396.4	686.5	711.0	506.7	764.1	837.7	1176.8	817.3
82.5°	114.4	114.4	155.3	249.2	416.8	588.4	331.0	400.4	429.1	453.6	212.5
85°	44.9	44.9	94.0	163.5	261.5	273.8	208.4	232.9	245.2	265.6	98.1
87.5°	12.3	12.3	53.1	89.9	114.4	126.7	126.7	114.4	122.6	151.2	49.0
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°	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5
2.5°	3318.1	3305.8	3289.5	3273.2	3256.8	3244.6	3232.3	3232.3	3224.2	3211.9	3203.7
5°	3310.0	3289.5	3252.7	3224.2	3179.2	3146.5	3122.0	3101.5	3089.2	3060.7	3056.6
7.5°	3297.7	3273.2	3220.0	3162.9	3089.2	3032.1	2974.9	2934.0	2893.1	2860.5	2852.2
10°	3277.2	3248.7	3171.0	3089.2	2987.1	2880.9	2746.1	2590.7	2447.7	2366.0	2341.5
12.5°	3277.2	3240.4	3138.3	3028.0	2880.9	2619.4	2276.1	1932.8	1667.2	1548.7	1516.0
15°	3297.7	3248.7	3113.8	2962.6	2688.8	2157.6	1601.9	1148.3	858.2	768.2	747.8
17.5°	3318.1	3248.7	3077.0	2872.7	2337.4	1565.1	911.3	604.8	510.8	490.4	490.4
20°	3326.3	3240.4	3028.0	2705.2	1867.5	972.6	543.5	453.6	416.8	404.6	404.6
22.5°	3359.0	3244.6	2991.2	2464.1	1356.7	572.1	429.1	380.1	343.3	331.0	331.0
25°	3440.7	3293.6	2999.4	2157.6	870.4	433.2	363.7	314.7	277.9	261.5	261.5
27.5°	3571.5	3403.9	3044.3	1802.1	547.6	371.8	306.5	253.4	224.7	208.4	208.4
30°	3718.5	3526.6	3064.7	1393.4	408.6	314.7	249.2	200.2	179.8	167.6	163.5
32.5°	3976.0	3739.0	3048.5	956.2	335.0	265.6	200.2	159.3	143.1	138.9	138.9
35°	4388.7	4110.9	3015.7	600.7	277.9	212.5	159.3	130.8	118.5	114.4	110.3
37.5°	4948.6	4654.4	2917.7	396.4	228.9	167.6	130.8	110.3	98.1	94.0	94.0
40°	5631.0	5275.5	2729.7	302.4	196.1	134.8	110.3	94.0	85.8	81.7	81.7
42.5°	6411.5	5966.1	2431.4	261.5	163.5	114.4	94.0	77.7	73.5	69.5	69.5
45°	7265.5	6689.3	2018.7	232.9	138.9	94.0	77.7	69.5	61.3	61.3	57.2
47.5°	8172.7	7416.7	1552.8	204.3	118.5	81.7	69.5	57.2	53.1	49.0	49.0
50°	9047.2	8066.5	1091.0	175.7	98.1	69.5	57.2	49.0	44.9	40.9	40.9
52.5°	9664.3	8458.7	772.4	151.2	81.7	61.3	44.9	36.8	32.7	32.7	32.7
55°	10158.6	8703.9	539.4	126.7	69.5	53.1	36.8	28.6	28.6	24.5	24.5
57.5°	10624.5	8863.3	396.4	106.3	57.2	40.9	28.6	20.4	20.4	16.4	16.4
60°	11106.7	8949.1	302.4	85.8	49.0	32.7	20.4	16.4	12.3	12.3	12.3
62.5°	11592.9	9002.2	232.9	69.5	40.9	24.5	16.4	12.3	8.1	4.1	4.1
65°	12018.0	9018.6	179.8	53.1	32.7	16.4	12.3	4.1	0.0	0.0	0.0
67.5°	12144.6	8830.6	138.9	40.9	24.5	12.3	8.1	0.0	0.0	0.0	0.0
70°	11801.4	8332.1	106.3	32.7	20.4	8.1	4.1	0.0	0.0	0.0	0.0
72.5°	10473.3	6987.6	81.7	20.4	16.4	8.1	4.1	0.0	0.0	0.0	0.0
75°	7494.4	3726.8	57.2	16.4	12.3	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	3448.9	1442.5	40.9	12.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0
80°	674.2	359.6	16.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	155.3	61.3	8.1	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.1	20.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	8.1	4.1	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)