

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: P381253

Luminaire Tested: **PRV-PA1B-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381253
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-PA1B-8540-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE 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: 5697.9 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 74
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

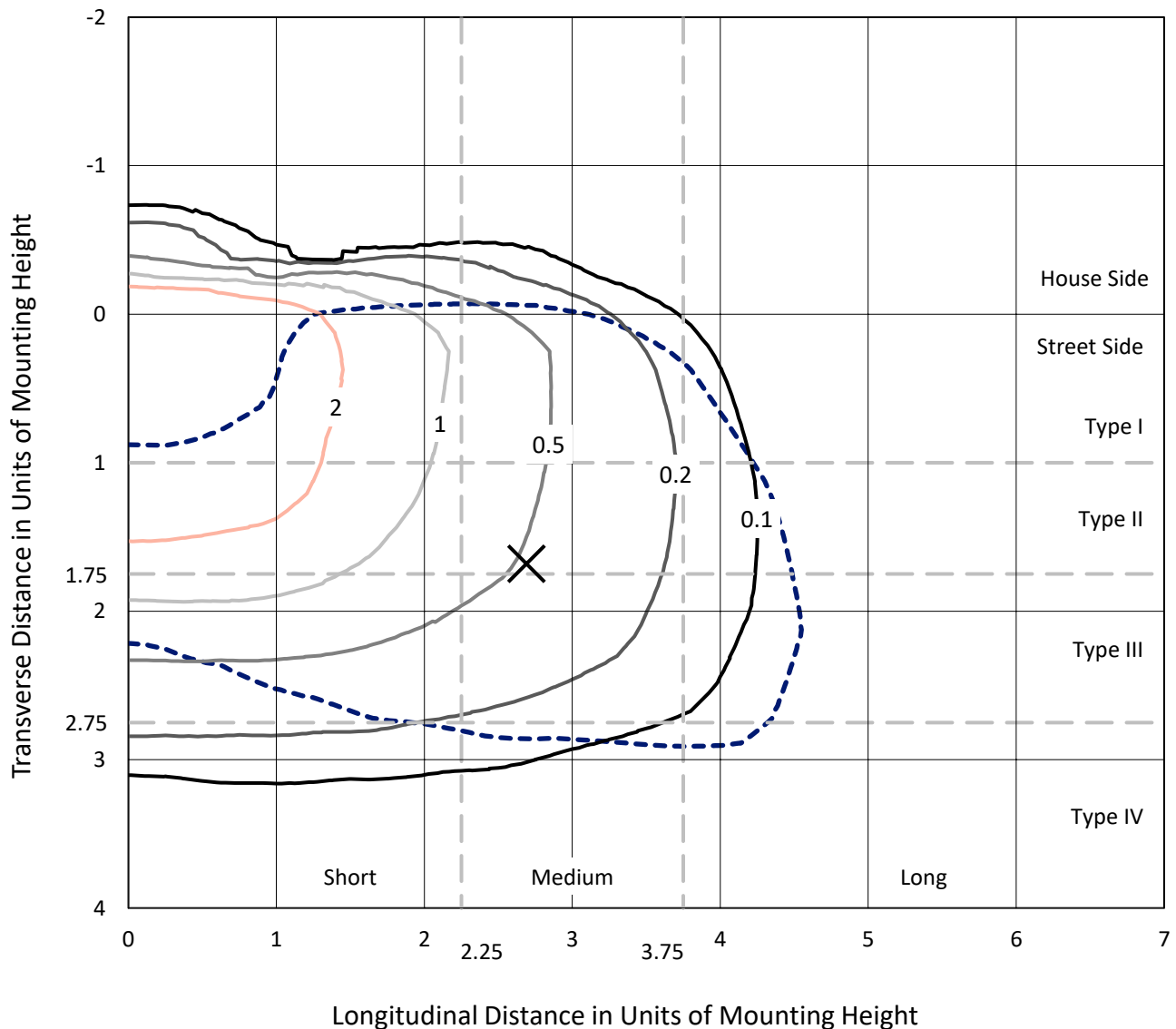


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

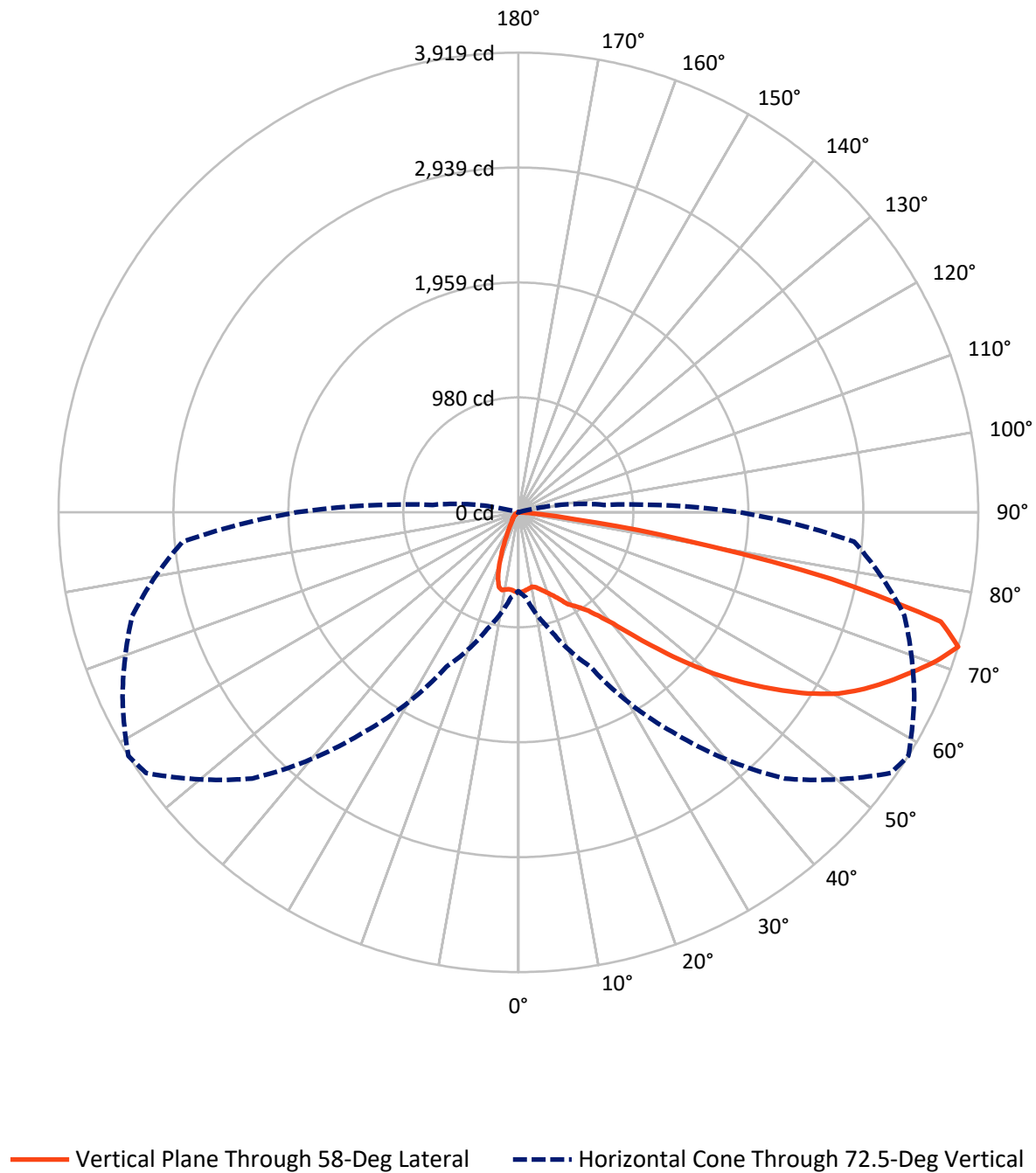


Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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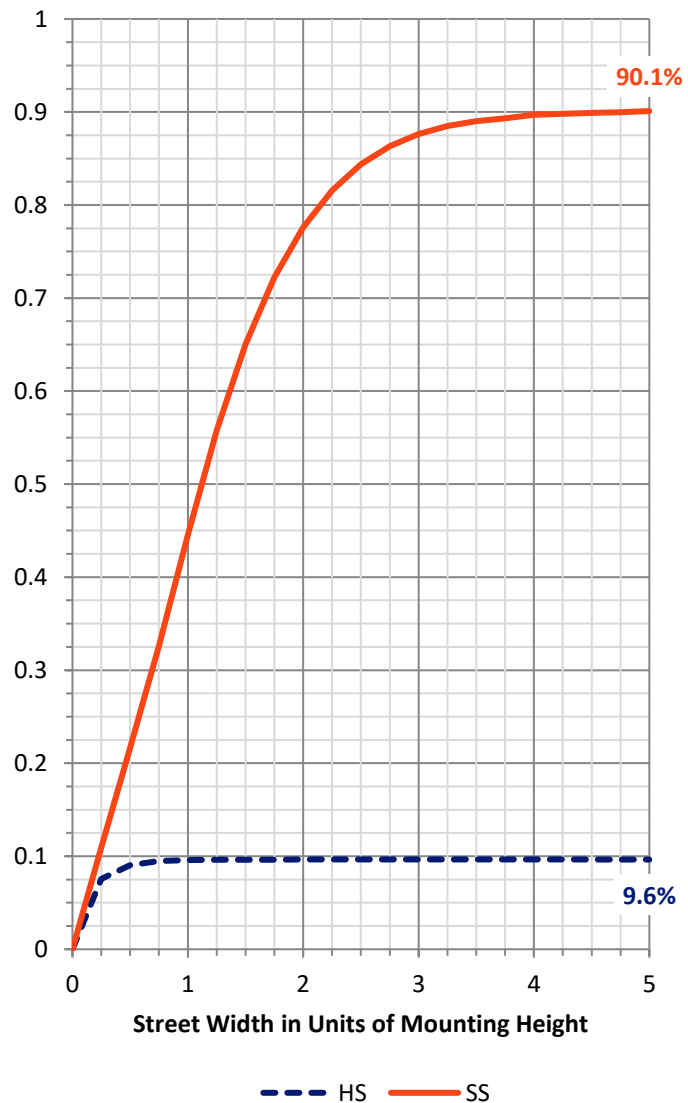
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.1	0.0	554.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5143.8	0.0	5143.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	5697.9	0.0	5697.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.1
10°-20°	163.4	2.9
20°-30°	256.7	4.5
30°-40°	442.8	7.8
40°-50°	842.4	14.8
50°-60°	1334.1	23.4
60°-70°	1556.7	27.3
70°-80°	975.0	17.1
80°-90°	64.0	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°	5697.9	100.0
0°-180°	5697.9	100.0

Coefficient of Utilization



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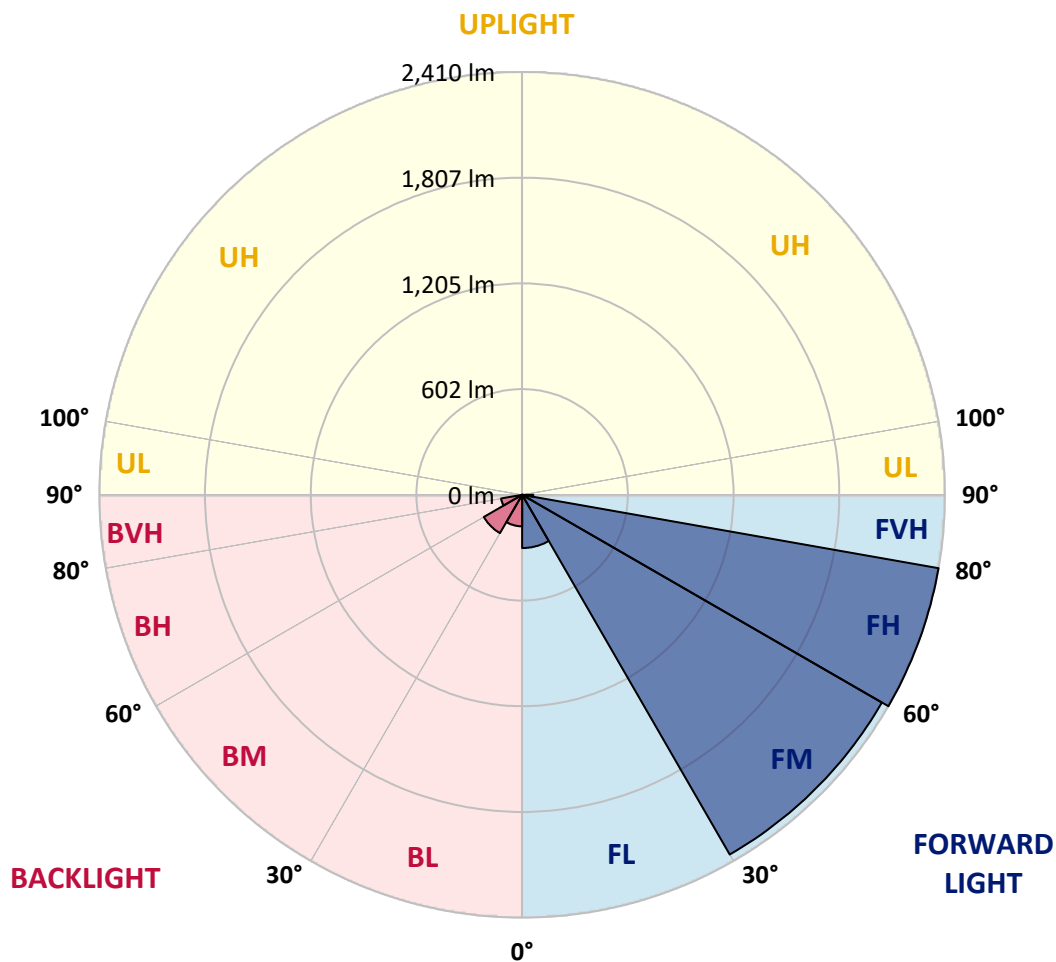
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.5	5.3			
FM	(30°-60°)	2367.1	41.5			
FH	(60°-80°)	2409.8	42.3			G2/5000
FVH	(80°-90°)	63.4	1.1			G1/100
BL	(0°-30°)	179.4	3.1	B1/500		
BM	(30°-60°)	252.1	4.4	B1/1000		
BH	(60°-80°)	121.9	2.1	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	680.7	677.6	676.6	675.6	676.6	677.6	674.6	677.6	675.6	676.6	678.6
5°	656.2	653.2	652.2	653.2	656.2	661.3	663.4	666.4	666.4	669.5	670.5
7.5°	628.7	626.6	625.6	627.7	633.8	645.0	651.1	655.2	659.3	665.4	671.5
10°	613.4	612.4	611.4	614.4	620.5	630.7	638.8	645.0	660.3	677.6	688.8
12.5°	603.2	603.2	605.3	611.4	619.5	627.7	647.0	655.2	678.6	705.1	720.4
15°	595.1	595.1	598.1	609.3	620.5	639.9	668.4	677.6	705.1	737.7	758.1
17.5°	589.0	591.0	593.0	604.2	625.6	658.3	691.9	705.1	738.8	774.4	796.8
20°	590.0	592.0	593.0	604.2	634.8	679.6	722.4	737.7	776.4	814.2	836.6
22.5°	596.1	599.2	600.2	615.4	651.1	702.0	757.1	774.4	816.2	855.9	873.2
25°	621.5	623.6	617.5	630.7	674.6	736.7	801.9	820.3	862.0	898.7	913.0
27.5°	708.1	710.2	676.6	661.3	692.9	765.2	856.9	882.4	934.4	958.9	960.9
30°	895.7	897.7	831.5	759.1	736.7	789.7	887.5	923.2	990.4	1017.9	1005.7
32.5°	1137.2	1135.1	1044.4	937.4	840.6	832.5	931.3	969.0	1042.4	1068.9	1059.7
35°	1379.6	1382.7	1305.3	1144.3	1005.7	913.0	987.4	1031.2	1119.8	1157.5	1141.2
37.5°	1545.7	1566.2	1532.5	1358.3	1208.5	1061.7	1078.0	1124.9	1236.0	1286.9	1252.3
40°	1780.1	1775.0	1693.5	1565.1	1432.7	1281.8	1224.8	1247.2	1374.6	1442.8	1388.8
42.5°	2094.9	2084.7	1946.1	1820.9	1673.1	1549.8	1433.7	1429.6	1533.5	1613.0	1534.5
45°	2380.2	2365.0	2270.2	2148.9	1986.9	1845.3	1688.4	1652.8	1725.1	1792.3	1700.6
47.5°	2607.5	2582.0	2514.8	2450.6	2410.9	2190.8	1955.4	1901.4	1938.0	1988.0	1858.5
50°	2876.5	2806.2	2708.3	2669.6	2752.2	2582.0	2212.1	2160.1	2158.1	2186.7	2021.5
52.5°	2998.7	2871.4	2816.4	2848.9	2994.7	2945.8	2489.3	2414.9	2385.3	2388.4	2173.4
55°	2851.0	2836.7	2866.3	2968.2	3158.7	3130.2	2755.2	2663.5	2619.7	2564.7	2319.1
57.5°	2682.9	2726.7	2843.9	3038.5	3366.6	3322.8	3017.1	2913.2	2832.7	2706.3	2481.2
60°	2528.0	2572.9	2766.4	3054.8	3480.7	3508.2	3235.1	3136.3	3017.1	2851.0	2659.5
62.5°	2292.6	2327.2	2599.3	3031.4	3430.8	3616.2	3386.9	3312.6	3201.5	2988.6	2864.3
65°	2027.7	2050.1	2319.1	2843.9	3333.0	3604.0	3512.3	3470.5	3362.5	3132.2	3067.0
67.5°	1737.3	1763.8	1988.0	2506.6	3141.4	3546.9	3630.5	3626.5	3503.1	3291.2	3213.7
70°	1403.1	1405.1	1590.6	2078.6	2807.2	3432.8	3777.2	3786.4	3637.7	3410.4	3219.9
72.5°	671.5	726.5	1031.2	1451.0	2281.4	3208.7	3873.0	3918.8	3722.2	3406.4	2872.4
75°	153.9	158.9	300.6	689.8	1337.9	2462.8	3633.6	3719.2	3516.4	2945.8	2023.7
77.5°	56.1	59.1	84.6	201.8	514.6	1272.7	2600.3	2725.7	2599.3	1904.4	956.8
80°	37.7	36.6	43.8	89.7	236.4	360.7	1329.7	1404.1	1281.8	650.1	229.3
82.5°	19.3	20.4	30.5	50.0	158.9	125.4	444.3	483.0	397.4	130.4	42.8
85°	9.2	9.2	17.3	31.6	67.3	43.8	98.8	119.3	107.0	57.1	14.3
87.5°	9.2	9.2	16.3	20.4	34.6	18.3	24.4	30.5	28.5	30.5	5.1
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°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	678.6	677.6	676.6	678.6	677.6	679.6	679.6	681.7	681.7	679.6	678.6
5°	669.5	667.4	665.4	665.4	664.4	666.4	672.5	677.6	678.6	675.6	674.6
7.5°	670.5	670.5	668.4	664.4	657.3	657.3	657.3	663.4	666.4	664.4	663.4
10°	688.8	689.8	684.7	675.6	663.4	652.2	630.7	599.2	569.6	561.4	558.4
12.5°	720.4	721.4	711.2	694.9	669.5	603.2	521.7	446.3	388.2	371.9	368.9
15°	758.1	759.1	740.8	714.3	636.8	483.0	361.7	276.2	225.2	213.0	212.0
17.5°	796.8	794.7	767.3	716.3	540.0	342.3	220.1	176.3	163.0	160.0	161.0
20°	834.5	828.4	790.7	678.6	415.7	224.2	161.0	150.8	147.8	145.7	145.7
22.5°	869.1	856.9	810.1	604.2	291.4	161.0	143.7	141.6	137.6	134.5	133.5
25°	903.8	886.5	822.3	507.5	195.7	140.6	135.5	131.5	126.4	122.3	121.3
27.5°	945.6	921.1	816.2	385.2	146.7	130.4	126.4	120.3	113.1	107.0	104.9
30°	985.3	957.8	781.5	265.9	125.4	120.3	114.1	104.9	95.8	88.6	86.6
32.5°	1035.3	1003.6	719.3	174.2	109.0	104.9	98.8	87.6	75.4	67.3	65.2
35°	1106.5	1070.9	639.9	122.3	95.8	88.6	80.5	68.3	55.0	48.9	47.9
37.5°	1206.4	1158.5	540.0	98.8	84.6	74.4	62.2	50.0	40.8	35.6	34.6
40°	1328.7	1255.3	429.0	87.6	75.4	62.2	46.9	35.6	29.5	25.4	25.4
42.5°	1461.2	1346.1	315.9	80.5	66.2	51.0	34.6	25.4	21.4	19.3	18.3
45°	1597.7	1426.5	213.0	74.4	58.1	38.8	24.4	17.3	14.3	14.3	13.2
47.5°	1739.4	1480.5	137.6	67.3	48.9	28.5	16.3	12.2	10.2	10.2	10.2
50°	1880.0	1509.1	97.8	61.2	39.8	19.3	12.2	9.2	8.1	8.1	8.1
52.5°	1981.9	1490.8	78.5	53.0	30.5	14.3	9.2	7.1	6.1	6.1	6.1
55°	2070.5	1459.1	68.3	45.9	22.4	10.2	7.1	6.1	5.1	5.1	5.1
57.5°	2161.2	1418.4	61.2	38.8	16.3	7.1	5.1	4.1	4.1	4.1	4.1
60°	2243.7	1349.1	53.0	30.5	11.2	5.1	4.1	3.1	3.1	3.1	3.1
62.5°	2324.2	1290.0	45.9	23.4	8.1	4.1	2.0	2.0	1.0	1.0	1.0
65°	2370.1	1210.5	36.6	15.3	5.1	3.1	1.0	1.0	0.0	0.0	0.0
67.5°	2355.8	1115.8	25.4	9.2	3.1	2.0	1.0	0.0	0.0	0.0	0.0
70°	2257.0	988.4	15.3	5.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1890.2	731.6	9.2	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	1262.5	336.2	5.1	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	577.8	100.9	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.2	26.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.4	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	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)