

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: P380933

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7718 lumens
Efficiency: N/A
Efficacy: 104.3 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

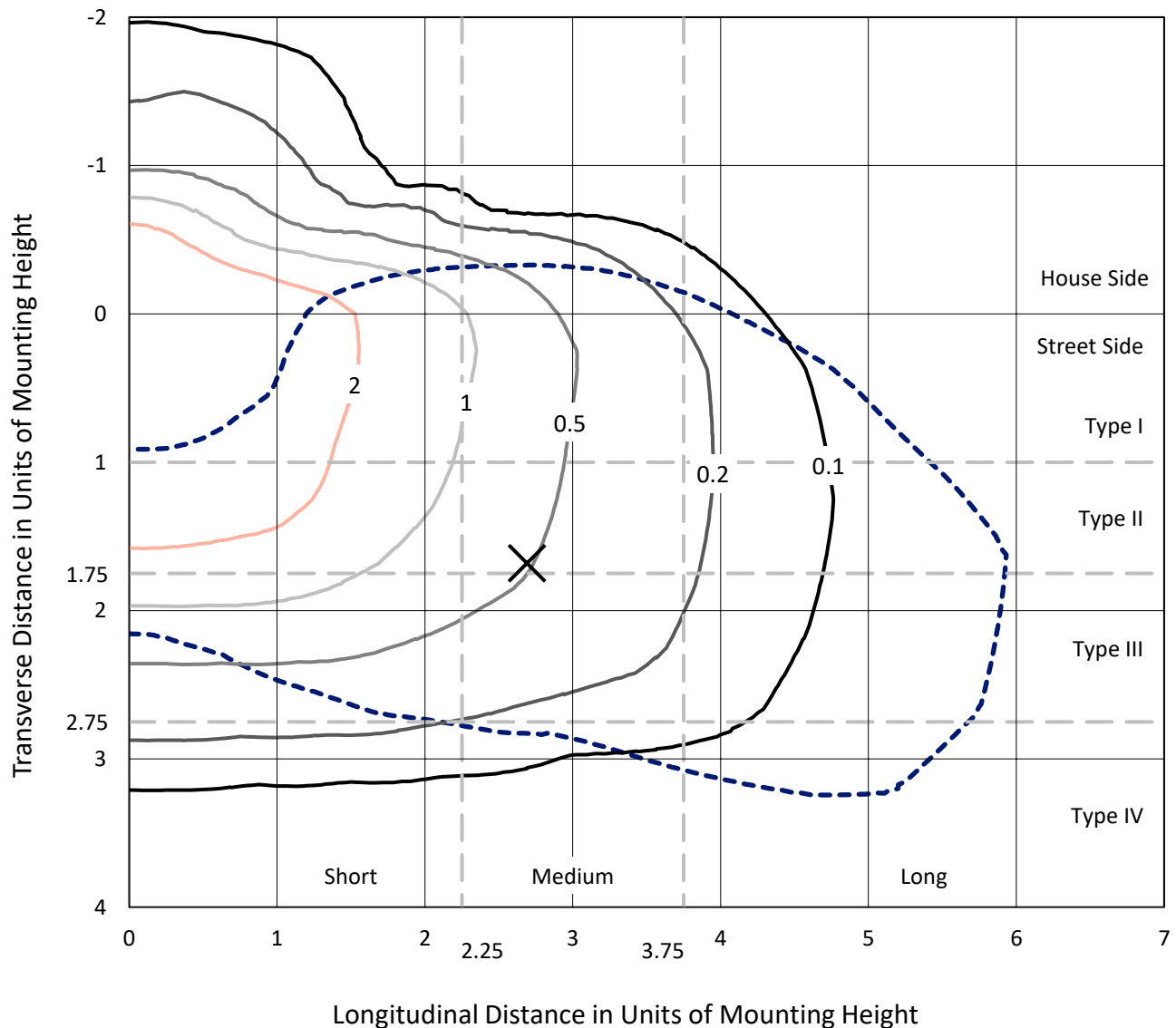


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

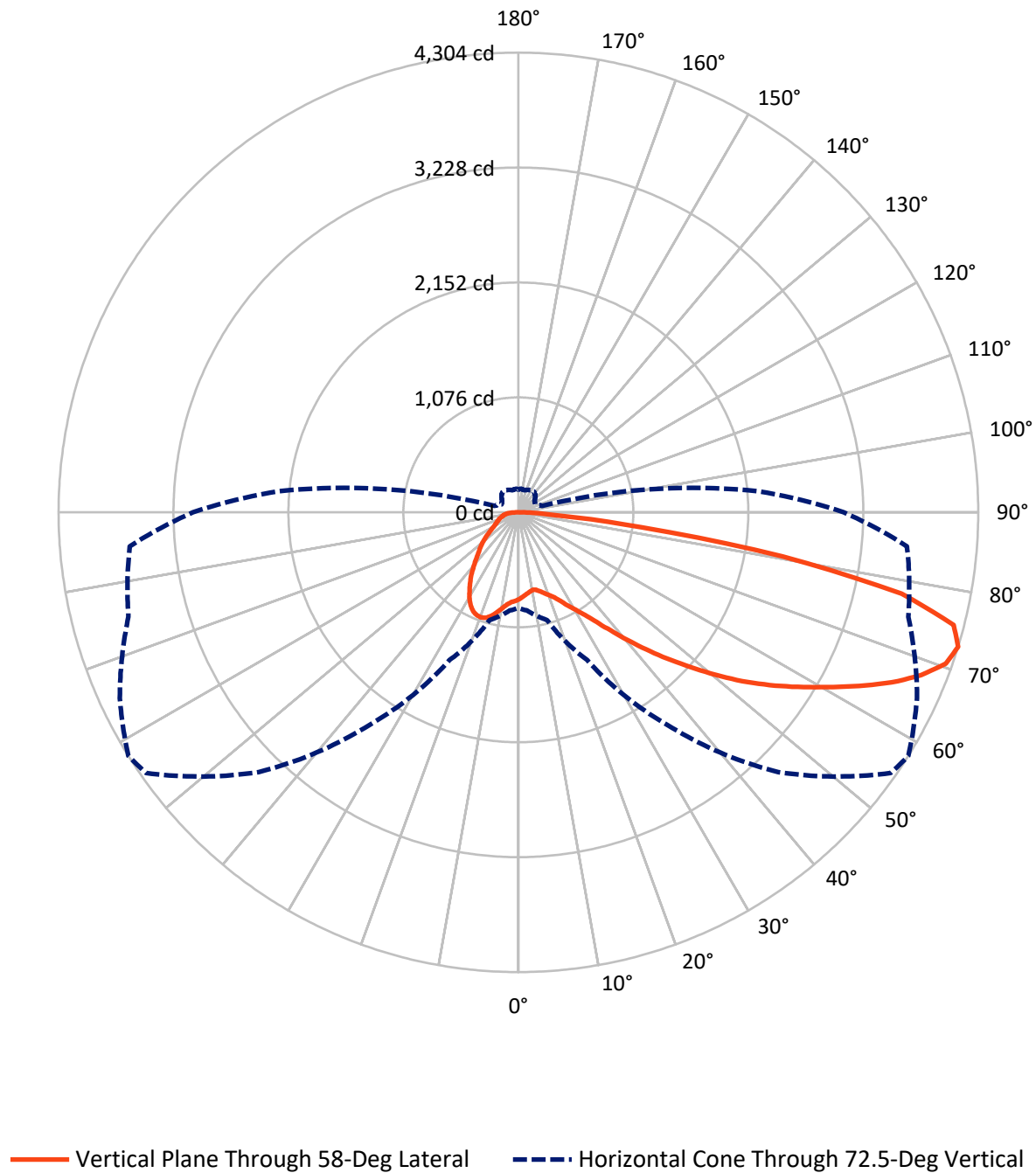


Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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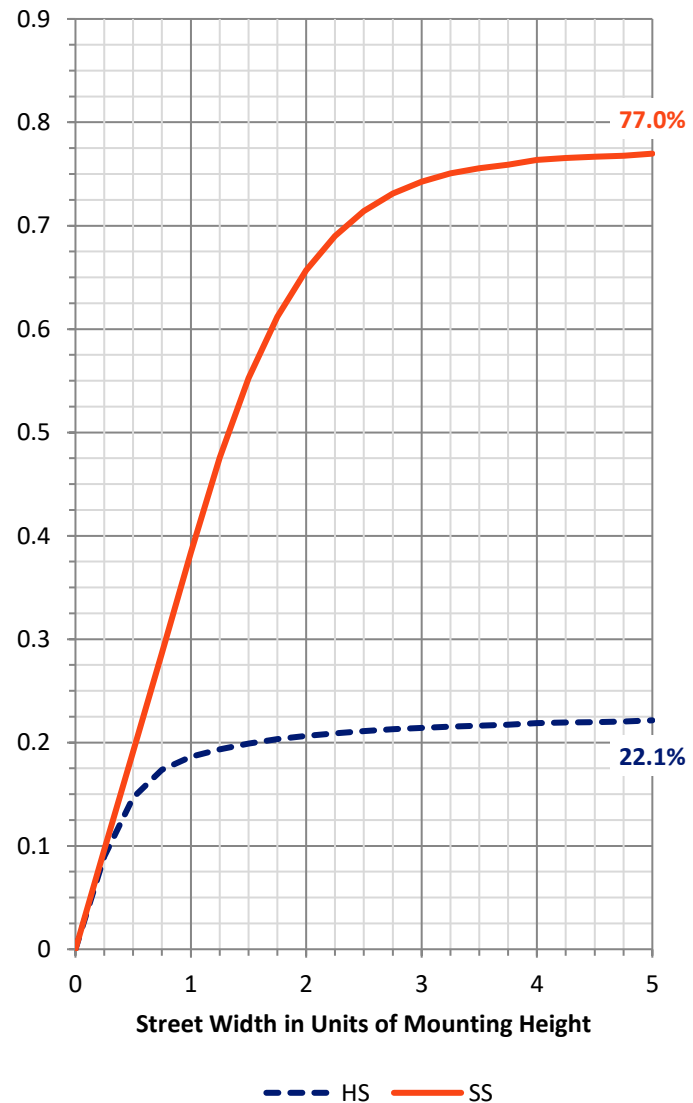
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.4	0.0	1750.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5967.7	0.0	5967.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	7718.0	0.0	7718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.0
10°-20°	249.1	3.2
20°-30°	446.1	5.8
30°-40°	671.1	8.7
40°-50°	1086.8	14.1
50°-60°	1635.9	21.2
60°-70°	1925.3	24.9
70°-80°	1365.2	17.7
80°-90°	260.1	3.4
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°	7718.0	100.0
0°-180°	7718.0	100.0

Coefficient of Utilization



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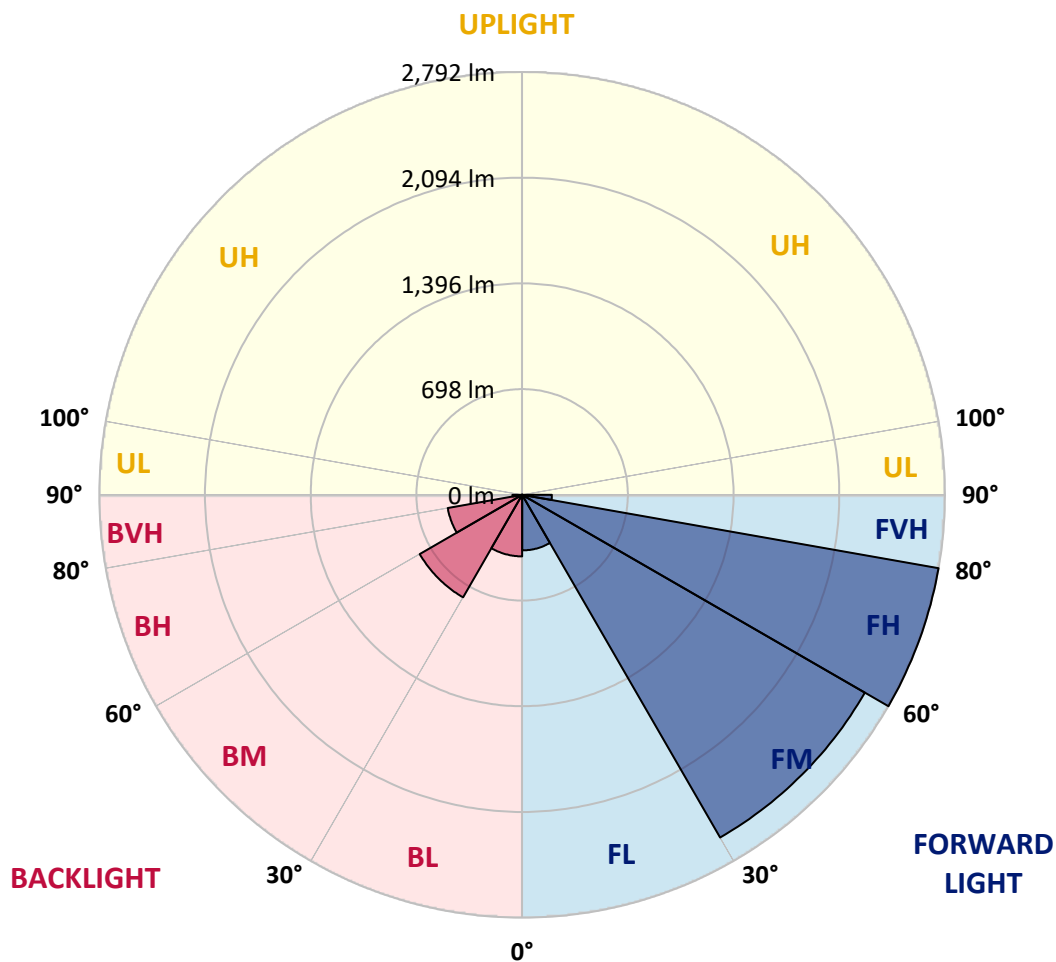
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.0	4.8			
FM	(30°-60°)	2612.8	33.9			
FH	(60°-80°)	2791.6	36.2			G2/5000
FVH	(80°-90°)	196.2	2.5			G2/225
BL	(0°-30°)	406.6	5.3	B1/500		
BM	(30°-60°)	781.0	10.1	B1/1000		
BH	(60°-80°)	498.9	6.5	B1/500		G1/500
BVH	(80°-90°)	63.9	0.8			G1/100
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°	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1
2.5°	783.5	779.5	780.5	780.5	784.6	786.6	787.6	790.7	792.7	797.8	804.9
5°	746.8	743.8	744.8	745.8	752.9	760.1	766.2	770.2	776.4	784.6	794.7
7.5°	720.4	718.3	719.3	721.4	727.5	735.6	745.8	751.9	761.1	776.4	793.7
10°	701.0	701.0	702.0	706.1	712.2	722.4	730.5	737.7	756.0	783.5	810.0
12.5°	685.7	685.7	688.7	696.9	707.1	717.3	736.6	744.8	769.2	807.0	838.5
15°	684.7	685.7	686.7	693.9	705.1	727.5	756.0	768.2	797.8	842.6	879.3
17.5°	701.0	702.0	698.0	700.0	713.2	744.8	782.5	796.8	834.4	883.4	921.0
20°	750.9	750.9	738.7	727.5	736.6	771.3	814.1	828.3	870.1	924.1	961.8
22.5°	852.8	857.9	829.4	804.9	790.7	810.0	848.7	864.0	910.9	969.0	1006.6
25°	976.1	981.2	942.5	907.8	881.3	878.3	903.7	920.0	958.8	1018.9	1050.5
27.5°	1095.3	1086.1	1050.5	1017.9	984.2	956.7	976.1	990.3	1035.2	1081.0	1100.4
30°	1189.1	1181.9	1147.3	1123.8	1092.2	1056.6	1045.4	1060.7	1097.4	1140.1	1150.3
32.5°	1293.0	1287.9	1253.2	1222.7	1196.2	1162.5	1138.1	1145.2	1165.6	1196.2	1202.3
35°	1425.5	1436.6	1399.9	1337.8	1308.2	1275.7	1258.4	1260.4	1275.7	1295.0	1284.8
37.5°	1565.0	1578.2	1580.3	1482.5	1442.8	1413.2	1394.8	1402.0	1420.4	1433.6	1402.0
40°	1823.8	1810.5	1757.6	1685.3	1624.1	1595.6	1570.1	1569.1	1582.4	1605.8	1548.7
42.5°	2167.2	2155.0	2047.9	1954.2	1857.4	1824.9	1774.9	1753.5	1759.6	1789.2	1709.7
45°	2496.3	2491.2	2405.6	2296.5	2180.4	2117.2	2003.1	1951.2	1946.1	1969.5	1874.7
47.5°	2788.7	2766.3	2704.1	2619.5	2607.3	2442.3	2232.4	2162.1	2137.6	2150.9	2044.9
50°	3101.5	3025.0	2939.5	2887.5	2976.2	2822.3	2463.6	2390.3	2330.2	2339.4	2229.3
52.5°	3267.5	3139.2	3083.1	3098.4	3217.7	3158.5	2715.3	2625.6	2528.9	2542.1	2412.7
55°	3125.0	3123.9	3148.4	3243.1	3409.2	3340.9	2954.7	2853.9	2747.9	2751.0	2623.6
57.5°	2929.3	2969.1	3095.4	3304.3	3646.6	3532.5	3190.1	3083.1	2986.4	2971.1	2863.0
60°	2751.0	2794.8	2978.2	3294.1	3729.1	3707.7	3414.3	3320.5	3242.1	3197.2	3114.7
62.5°	2480.0	2512.6	2772.4	3228.9	3659.8	3834.0	3641.5	3577.3	3518.2	3425.5	3385.8
65°	2161.1	2172.3	2446.3	3013.8	3573.2	3883.0	3867.7	3839.1	3782.1	3645.6	3653.7
67.5°	1815.6	1838.1	2078.6	2670.5	3383.7	3860.6	4042.9	4066.4	3999.1	3794.3	3824.9
70°	1447.8	1475.3	1657.7	2195.7	3061.8	3763.7	4204.9	4242.6	4113.3	3843.2	3856.5
72.5°	895.6	922.1	1044.4	1525.3	2427.0	3438.7	4254.8	4303.8	4116.3	3778.1	3650.7
75°	309.8	312.8	408.6	731.6	1440.7	2596.1	4091.8	4207.0	3986.9	3540.6	3176.9
77.5°	141.6	146.7	181.3	301.6	638.8	1400.9	3378.6	3666.9	3593.6	3169.7	2445.3
80°	97.8	99.8	125.4	180.3	368.9	493.1	2132.5	2508.5	2636.9	2454.5	1567.0
82.5°	73.4	75.4	96.8	122.3	265.9	239.4	812.0	1165.6	1448.9	1422.4	655.1
85°	70.3	69.3	75.4	81.5	177.3	142.7	262.9	360.6	565.5	484.0	165.1
87.5°	30.5	33.6	77.4	45.9	92.7	66.2	114.1	133.5	172.2	149.8	59.1
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°	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1
2.5°	808.0	810.0	816.1	825.3	830.4	840.6	847.7	851.8	854.9	855.9	855.9
5°	800.9	804.9	818.2	833.4	847.7	869.1	888.5	899.7	907.8	910.9	911.9
7.5°	802.9	813.1	832.4	854.9	873.2	900.7	924.1	946.6	964.9	972.0	972.0
10°	822.2	836.5	863.0	892.5	916.0	944.5	969.0	988.3	1009.7	1022.0	1024.0
12.5°	851.8	869.1	903.7	936.4	962.9	985.2	1007.6	1022.0	1032.2	1041.3	1043.3
15°	893.6	914.9	949.6	983.2	1006.6	1021.0	1027.1	1027.1	1026.0	1027.1	1029.1
17.5°	935.4	955.7	990.3	1024.0	1035.2	1027.1	1019.9	1017.9	1016.9	1014.8	1015.9
20°	976.1	995.4	1025.0	1050.5	1041.3	1012.7	1003.6	1002.6	999.5	997.5	995.4
22.5°	1016.9	1031.1	1055.6	1064.7	1028.1	987.3	976.1	970.0	965.9	960.8	955.7
25°	1063.7	1067.8	1086.1	1071.8	995.4	940.5	924.1	914.9	910.9	905.8	901.7
27.5°	1107.6	1107.6	1110.6	1060.7	947.6	878.3	853.9	837.5	836.5	835.5	834.4
30°	1147.3	1142.2	1132.0	1027.1	885.4	801.9	765.1	748.9	755.0	760.1	761.1
32.5°	1194.2	1184.0	1155.4	981.2	811.0	716.3	671.4	664.3	671.4	677.5	673.5
35°	1267.5	1249.1	1179.9	928.2	739.7	637.8	595.0	584.8	582.8	581.8	573.6
37.5°	1372.4	1340.9	1199.2	871.2	669.4	568.5	537.0	515.5	496.2	475.8	472.8
40°	1500.9	1446.8	1212.5	805.9	595.0	510.4	476.8	449.4	416.7	381.1	377.0
42.5°	1641.4	1560.9	1218.6	733.6	529.9	462.6	420.8	386.2	349.5	322.0	316.9
45°	1793.2	1684.2	1213.5	664.3	476.8	421.8	375.0	337.2	307.7	288.4	284.3
47.5°	1941.0	1825.9	1199.2	609.3	436.1	387.2	339.3	304.7	282.2	260.8	255.7
50°	2130.5	1961.3	1181.9	566.5	391.3	352.5	316.9	280.2	254.7	244.5	242.5
52.5°	2340.4	2096.9	1161.5	512.5	347.4	325.0	302.6	270.0	261.8	242.5	239.4
55°	2567.6	2257.9	1157.4	444.2	308.7	305.7	288.4	279.1	281.2	242.5	237.4
57.5°	2807.1	2430.0	1166.6	376.0	277.1	288.4	294.5	287.4	284.3	247.6	237.4
60°	3056.7	2596.1	1139.1	312.8	252.7	274.0	301.6	283.2	260.8	245.5	238.4
62.5°	3299.2	2735.7	1019.9	267.9	234.4	270.0	297.5	267.9	242.5	242.5	239.4
65°	3475.4	2797.9	797.8	235.4	222.1	264.9	290.4	257.8	237.4	244.5	240.5
67.5°	3495.8	2733.7	536.0	209.9	212.0	255.7	274.0	248.6	232.3	250.6	244.5
70°	3370.5	2566.6	328.1	190.5	198.6	239.4	259.8	239.4	225.2	245.5	236.4
72.5°	3045.5	2254.8	231.3	174.2	184.4	224.2	246.6	231.3	215.0	222.1	213.0
75°	2498.3	1747.4	183.4	158.9	170.1	209.9	235.4	219.1	202.8	199.7	193.6
77.5°	1769.8	1119.8	147.8	146.7	154.9	192.5	220.1	204.8	188.5	182.4	178.3
80°	1017.9	549.2	127.4	132.5	140.6	175.2	201.7	188.5	173.2	164.0	157.9
82.5°	389.2	191.5	112.0	115.1	124.3	156.9	183.4	172.2	156.9	165.1	138.6
85°	126.4	104.9	91.7	94.7	103.9	130.4	162.0	152.8	135.5	120.2	111.0
87.5°	56.1	57.1	48.9	54.0	65.2	86.6	118.2	112.0	98.8	82.5	79.5
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)