

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: P380932

Luminaire Tested: **PRV-PA1A-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380932
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-PA1A-8540-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5931.2 lumens
Efficiency: N/A
Efficacy: 109.8 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): 54
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

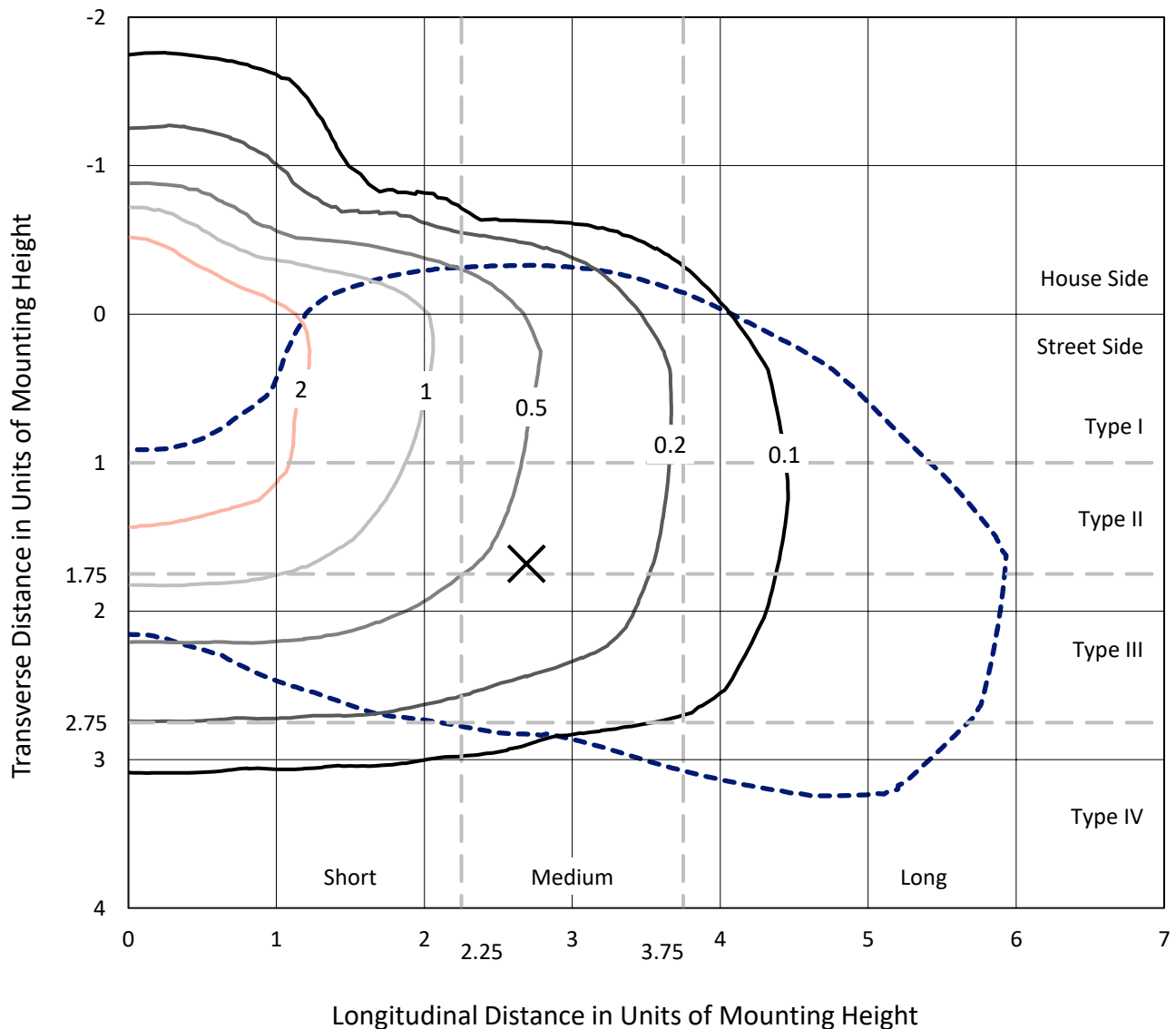


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

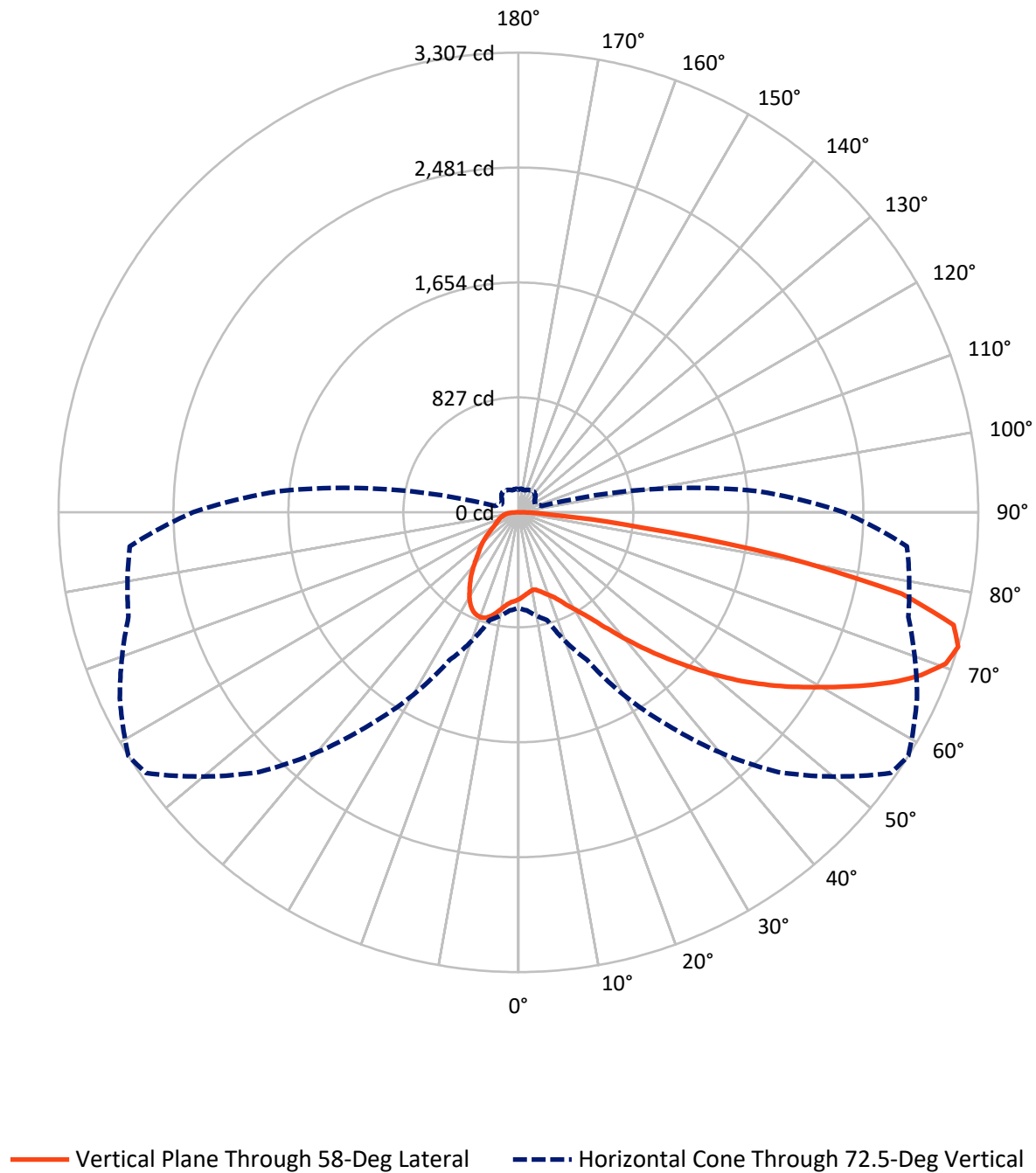


Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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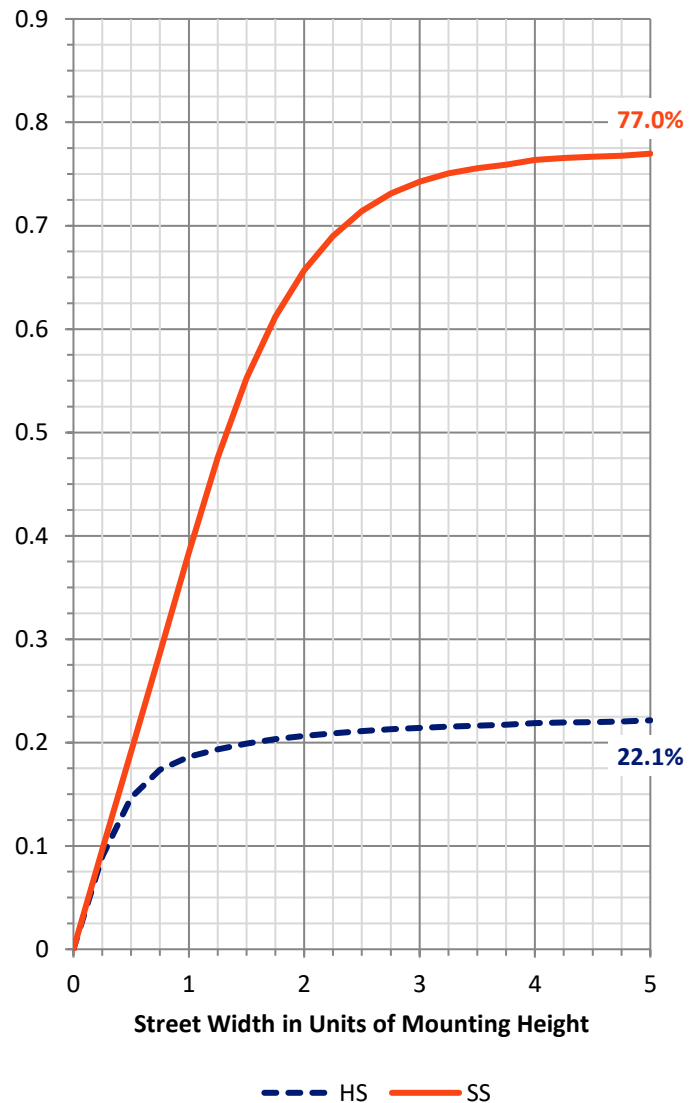
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.1	0.0	1345.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	4586.1	0.0	4586.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	5931.2	0.0	5931.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.0
10°-20°	191.4	3.2
20°-30°	342.8	5.8
30°-40°	515.7	8.7
40°-50°	835.2	14.1
50°-60°	1257.2	21.2
60°-70°	1479.6	24.9
70°-80°	1049.1	17.7
80°-90°	199.9	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°	5931.2	100.0
0°-180°	5931.2	100.0

Coefficient of Utilization



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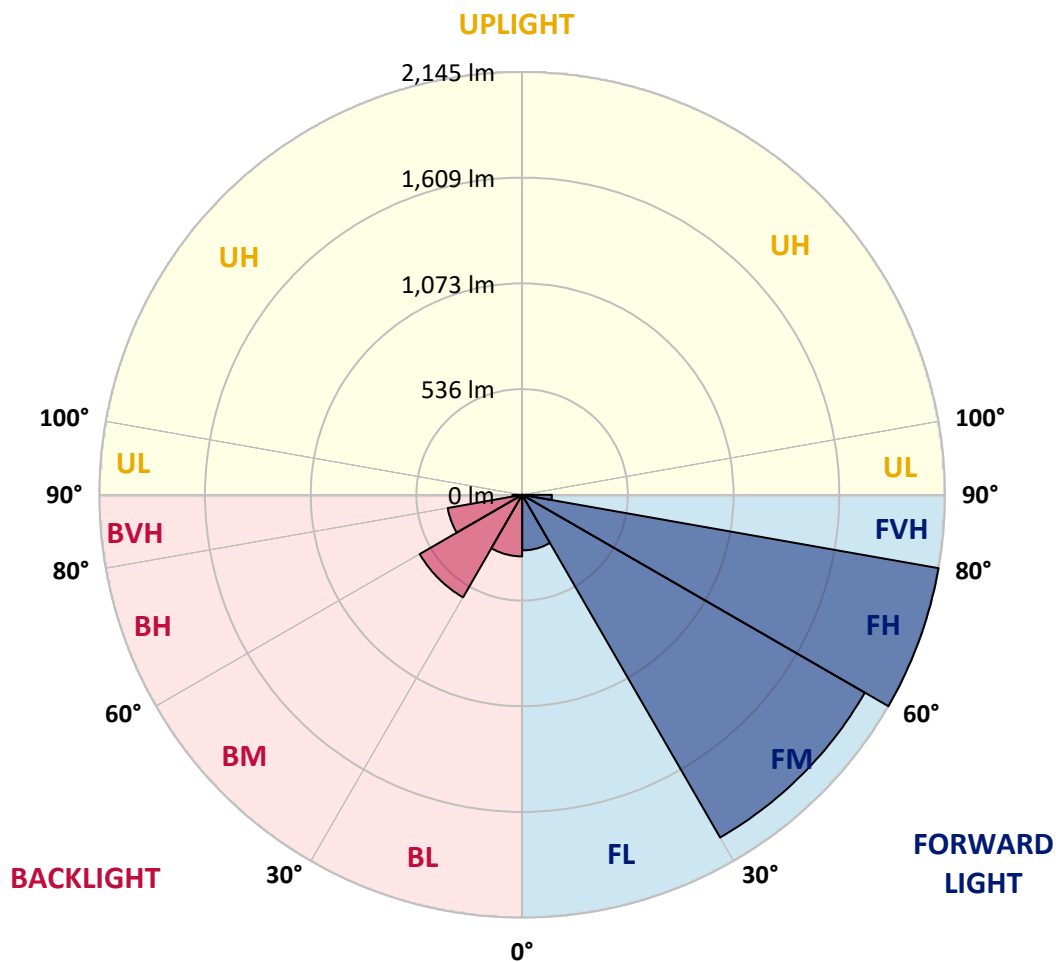
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.1	4.8			
FM	(30°-60°)	2007.9	33.9			
FH	(60°-80°)	2145.3	36.2			G2/5000
FVH	(80°-90°)	150.8	2.5			G2/225
BL	(0°-30°)	312.5	5.3	B1/500		
BM	(30°-60°)	600.2	10.1	B1/1000		
BH	(60°-80°)	383.4	6.5	B1/500		G1/500
BVH	(80°-90°)	49.1	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°	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6
2.5°	602.1	599.0	599.8	599.8	602.9	604.5	605.3	607.6	609.2	613.1	618.6
5°	573.9	571.6	572.4	573.2	578.6	584.1	588.8	591.9	596.6	602.9	610.7
7.5°	553.6	552.0	552.8	554.4	559.1	565.3	573.2	577.9	584.9	596.6	610.0
10°	538.7	538.7	539.5	542.6	547.3	555.1	561.4	566.9	581.0	602.1	622.5
12.5°	527.0	527.0	529.3	535.6	543.4	551.2	566.1	572.4	591.2	620.1	644.4
15°	526.2	527.0	527.7	533.2	541.8	559.1	581.0	590.4	613.1	647.5	675.7
17.5°	538.7	539.5	536.4	537.9	548.1	572.4	601.3	612.3	641.3	678.9	707.8
20°	577.1	577.1	567.7	559.1	566.1	592.7	625.6	636.6	668.7	710.2	739.2
22.5°	655.4	659.3	637.4	618.6	607.6	622.5	652.2	664.0	700.0	744.6	773.6
25°	750.1	754.0	724.3	697.7	677.3	674.9	694.5	707.0	736.8	783.0	807.3
27.5°	841.7	834.7	807.3	782.2	756.4	735.2	750.1	761.1	795.5	830.8	845.6
30°	913.8	908.3	881.7	863.6	839.4	812.0	803.4	815.1	843.3	876.2	884.0
32.5°	993.6	989.7	963.1	939.6	919.2	893.4	874.6	880.1	895.8	919.2	923.9
35°	1095.4	1104.0	1075.8	1028.1	1005.4	980.3	967.0	968.6	980.3	995.2	987.4
37.5°	1202.7	1212.9	1214.4	1139.3	1108.7	1086.0	1071.9	1077.4	1091.5	1101.7	1077.4
40°	1401.6	1391.4	1350.7	1295.1	1248.1	1226.2	1206.6	1205.8	1216.0	1234.0	1190.2
42.5°	1665.4	1656.0	1573.8	1501.8	1427.4	1402.4	1364.0	1347.5	1352.2	1374.9	1313.9
45°	1918.4	1914.4	1848.7	1764.9	1675.6	1627.1	1539.4	1499.4	1495.5	1513.5	1440.7
47.5°	2143.1	2125.8	2078.1	2013.1	2003.7	1876.9	1715.6	1661.5	1642.7	1652.9	1571.5
50°	2383.5	2324.7	2259.0	2219.0	2287.1	2168.9	1893.3	1836.9	1790.7	1797.8	1713.2
52.5°	2511.1	2412.4	2369.4	2381.1	2472.7	2427.3	2086.7	2017.8	1943.4	1953.6	1854.1
55°	2401.5	2400.7	2419.5	2492.3	2619.9	2567.5	2270.7	2193.2	2111.8	2114.1	2016.2
57.5°	2251.1	2281.7	2378.8	2539.3	2802.4	2714.7	2451.6	2369.4	2295.0	2283.2	2200.2
60°	2114.1	2147.8	2288.7	2531.4	2865.8	2849.3	2623.8	2551.8	2491.5	2457.1	2393.6
62.5°	1905.8	1930.9	2130.5	2481.3	2812.5	2946.4	2798.4	2749.1	2703.7	2632.4	2601.9
65°	1660.7	1669.4	1880.0	2316.1	2746.0	2984.0	2972.3	2950.3	2906.5	2801.6	2807.8
67.5°	1395.3	1412.5	1597.3	2052.2	2600.3	2966.8	3106.9	3125.0	3073.3	2915.9	2939.4
70°	1112.6	1133.8	1273.9	1687.4	2352.9	2892.4	3231.4	3260.4	3161.0	2953.5	2963.7
72.5°	688.3	708.6	802.6	1172.2	1865.1	2642.6	3269.8	3307.4	3163.3	2903.4	2805.5
75°	238.0	240.4	314.0	562.2	1107.2	1995.1	3144.5	3233.0	3063.9	2720.9	2441.4
77.5°	108.8	112.8	139.4	231.8	490.9	1076.6	2596.4	2818.0	2761.6	2435.9	1879.2
80°	75.2	76.7	96.3	138.6	283.4	379.0	1638.8	1927.7	2026.4	1886.2	1204.3
82.5°	56.4	57.9	74.4	94.0	204.4	184.0	624.1	895.8	1113.4	1093.1	503.5
85°	54.0	53.2	57.9	62.6	136.2	109.6	202.0	277.2	434.6	371.9	126.8
87.5°	23.5	25.8	59.5	35.2	71.3	50.9	87.7	102.6	132.3	115.1	45.4
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°	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6
2.5°	620.9	622.5	627.2	634.2	638.1	646.0	651.5	654.6	656.9	657.7	657.7
5°	615.4	618.6	628.7	640.5	651.5	667.9	682.8	691.4	697.7	700.0	700.8
7.5°	617.0	624.8	639.7	656.9	671.0	692.2	710.2	727.4	741.5	747.0	747.0
10°	631.9	642.8	663.2	685.9	703.9	725.8	744.6	759.5	776.0	785.3	786.9
12.5°	654.6	667.9	694.5	719.6	739.9	757.2	774.4	785.3	793.2	800.2	801.8
15°	686.7	703.1	729.8	755.6	773.6	784.6	789.3	789.3	788.5	789.3	790.8
17.5°	718.8	734.5	761.1	786.9	795.5	789.3	783.8	782.2	781.4	779.9	780.7
20°	750.1	765.0	787.7	807.3	800.2	778.3	771.3	770.5	768.1	766.6	765.0
22.5°	781.4	792.4	811.2	818.2	790.0	758.7	750.1	745.4	742.3	738.4	734.5
25°	817.5	820.6	834.7	823.7	765.0	722.7	710.2	703.1	700.0	696.1	693.0
27.5°	851.1	851.1	853.5	815.1	728.2	674.9	656.2	643.6	642.8	642.1	641.3
30°	881.7	877.7	869.9	789.3	680.4	616.2	588.0	575.5	580.2	584.1	584.9
32.5°	917.7	909.8	887.9	754.0	623.3	550.4	516.0	510.5	516.0	520.7	517.6
35°	974.1	960.0	906.7	713.3	568.5	490.2	457.3	449.4	447.9	447.1	440.8
37.5°	1054.7	1030.4	921.6	669.5	514.4	436.9	412.6	396.2	381.3	365.7	363.3
40°	1153.4	1111.9	931.8	619.4	457.3	392.3	366.4	345.3	320.2	292.8	289.7
42.5°	1261.4	1199.6	936.5	563.8	407.2	355.5	323.4	296.8	268.6	247.4	243.5
45°	1378.1	1294.3	932.6	510.5	366.4	324.2	288.1	259.2	236.5	221.6	218.5
47.5°	1491.6	1403.1	921.6	468.2	335.1	297.5	260.7	234.1	216.9	200.4	196.5
50°	1637.3	1507.3	908.3	435.3	300.7	270.9	243.5	215.3	195.8	187.9	186.4
52.5°	1798.6	1611.4	892.6	393.8	267.0	249.8	232.6	207.5	201.2	186.4	184.0
55°	1973.2	1735.1	889.5	341.4	237.2	234.9	221.6	214.5	216.1	186.4	182.4
57.5°	2157.2	1867.5	896.5	288.9	213.0	221.6	226.3	220.8	218.5	190.3	182.4
60°	2349.0	1995.1	875.4	240.4	194.2	210.6	231.8	217.7	200.4	188.7	183.2
62.5°	2535.4	2102.4	783.8	205.9	180.1	207.5	228.6	205.9	186.4	186.4	184.0
65°	2670.8	2150.1	613.1	180.9	170.7	203.6	223.2	198.1	182.4	187.9	184.8
67.5°	2686.5	2100.8	411.9	161.3	162.9	196.5	210.6	191.1	178.5	192.6	187.9
70°	2590.2	1972.4	252.1	146.4	152.7	184.0	199.7	184.0	173.0	188.7	181.7
72.5°	2340.4	1732.8	177.7	133.9	141.7	172.3	189.5	177.7	165.2	170.7	163.6
75°	1919.9	1342.8	140.9	122.1	130.8	161.3	180.9	168.3	155.8	153.5	148.8
77.5°	1360.1	860.5	113.5	112.8	119.0	148.0	169.1	157.4	144.9	140.2	137.0
80°	782.2	422.0	97.9	101.8	108.1	134.7	155.0	144.9	133.1	126.1	121.4
82.5°	299.1	147.2	86.1	88.5	95.5	120.6	140.9	132.3	120.6	126.8	106.5
85°	97.1	80.6	70.5	72.8	79.9	100.2	124.5	117.4	104.1	92.4	85.3
87.5°	43.1	43.8	37.6	41.5	50.1	66.6	90.8	86.1	76.0	63.4	61.1
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)