

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: P511172

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

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1B-8540-U-T3
Description: PREVAIL AREA AND WALL 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: 5685.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.8
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

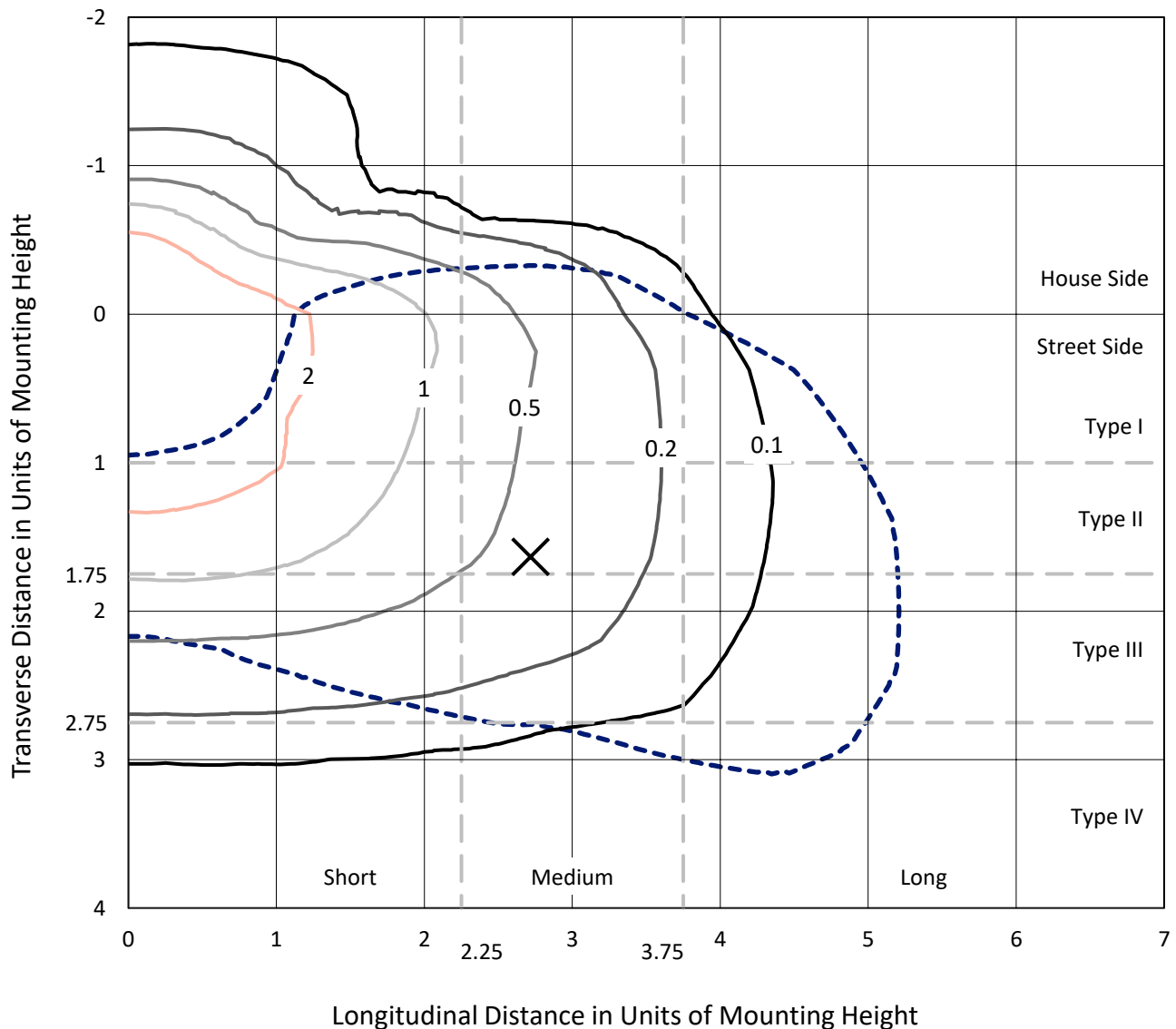


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

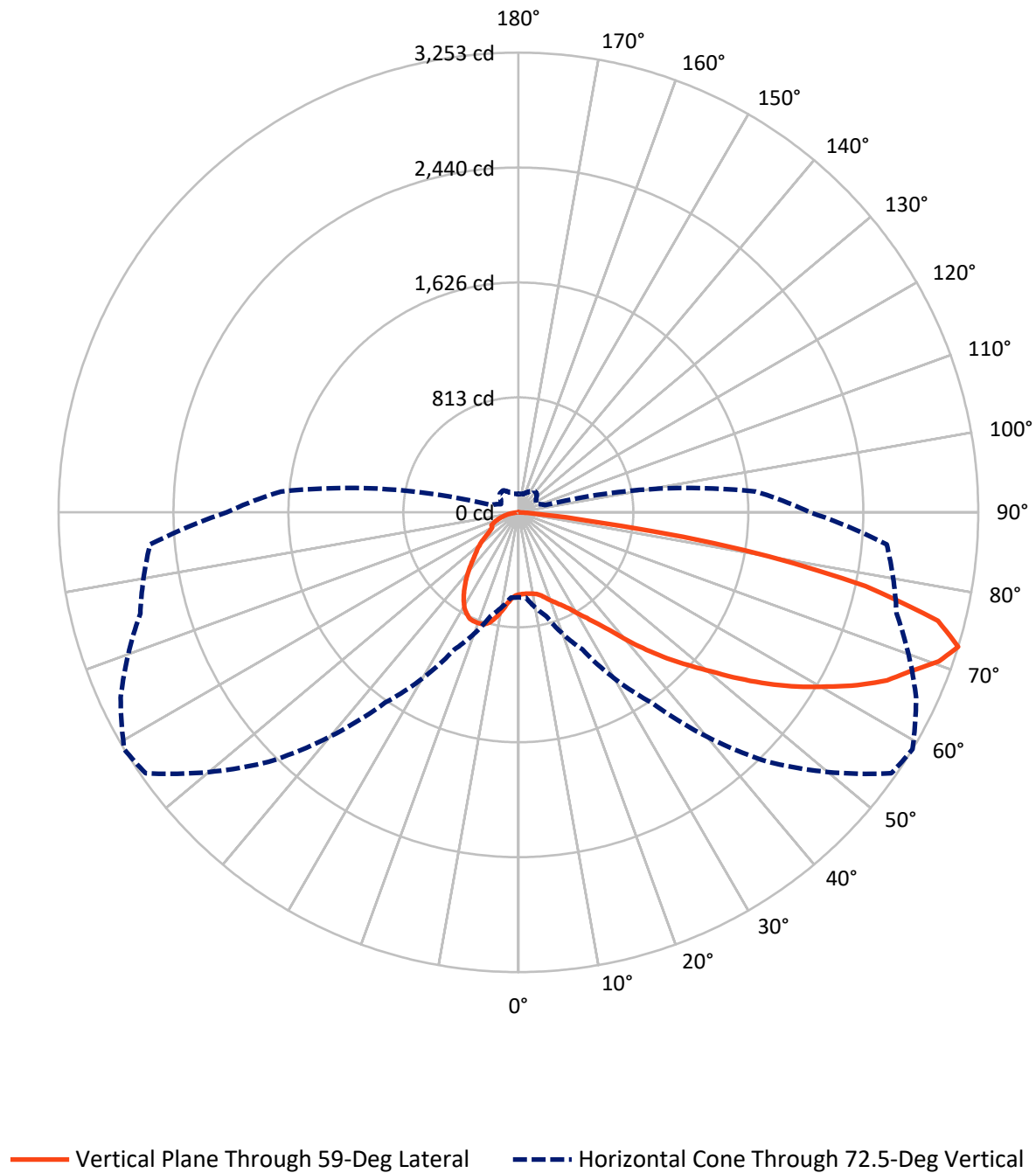


Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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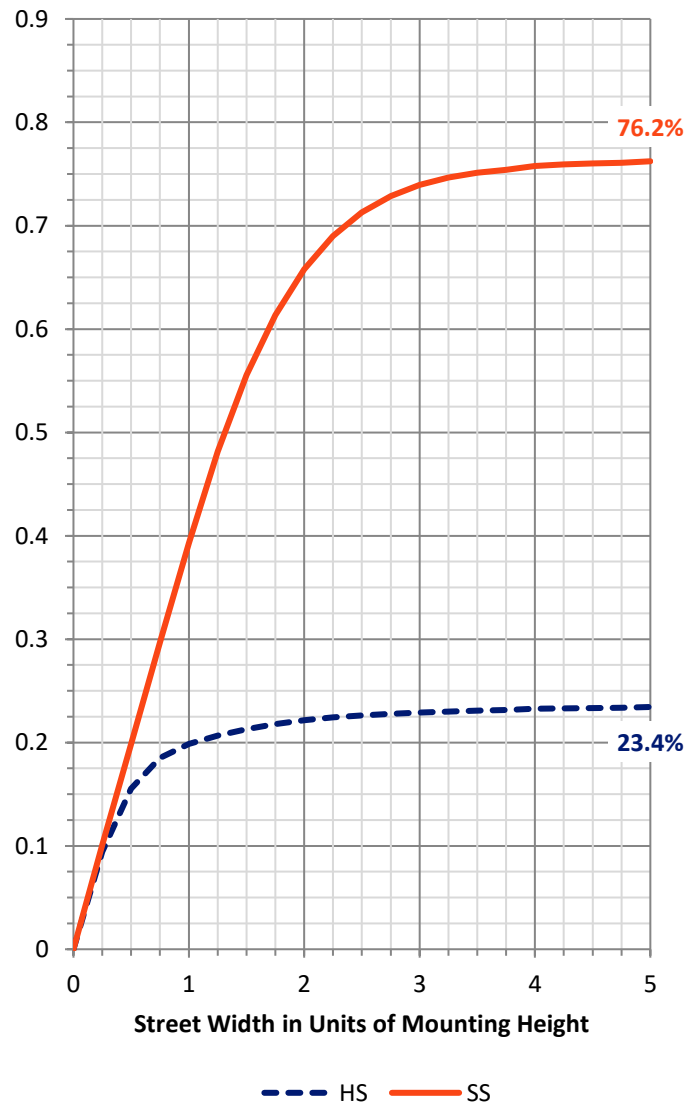
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.0	0.0	1345.0
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	4340.4	0.0	4340.4
	% Fixture	76.3	0.0	76.3
Total	Lumens	5685.4	0.0	5685.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.0
10°-20°	191.8	3.4
20°-30°	354.3	6.2
30°-40°	539.1	9.5
40°-50°	812.4	14.3
50°-60°	1207.0	21.2
60°-70°	1436.4	25.3
70°-80°	972.2	17.1
80°-90°	114.0	2.0
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°	5685.4	100.0
0°-180°	5685.4	100.0

Coefficient of Utilization



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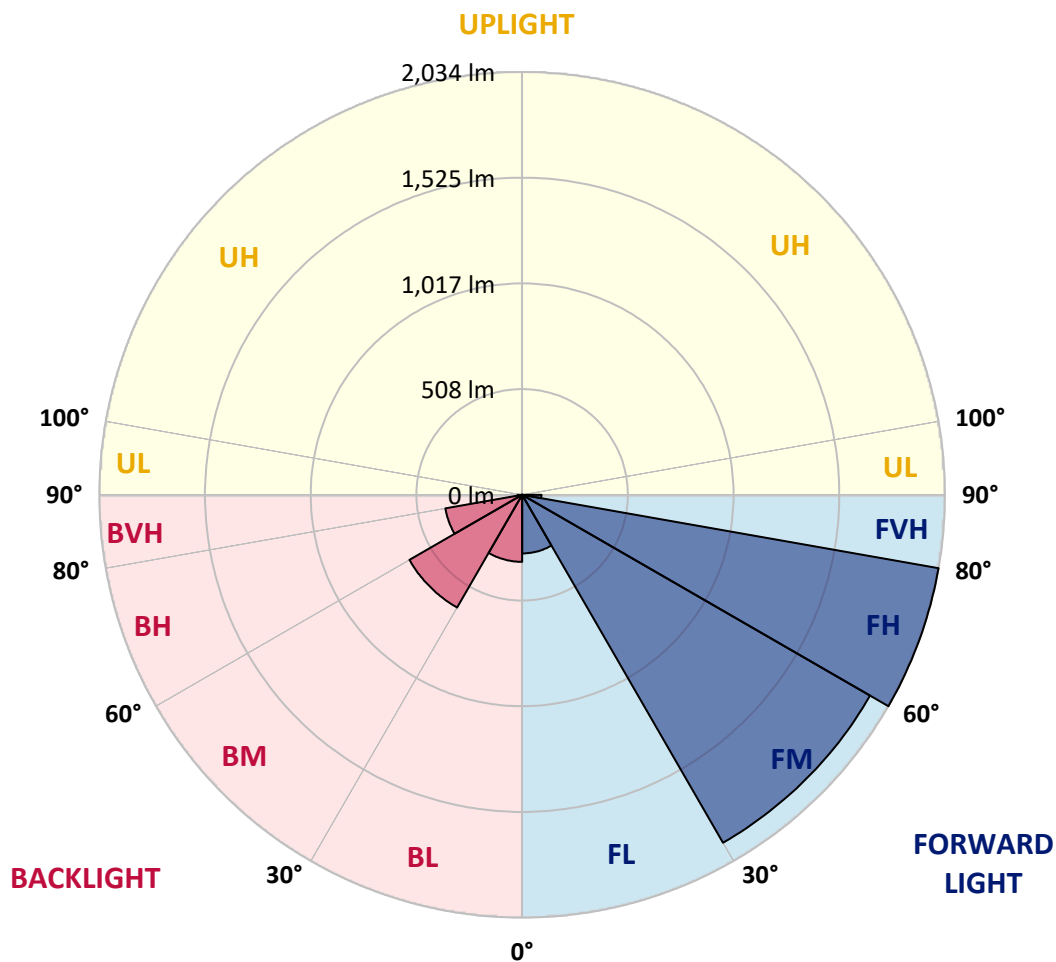
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.8	5.0			
FM	(30°-60°)	1932.3	34.0			
FH	(60°-80°)	2033.6	35.8			G2/5000
FVH	(80°-90°)	92.7	1.6			G1/100
BL	(0°-30°)	322.5	5.7	B1/500		
BM	(30°-60°)	626.1	11.0	B1/1000		
BH	(60°-80°)	375.0	6.6	B1/500		G1/500
BVH	(80°-90°)	21.3	0.4			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°	59°	65°	75°	85°
0°	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2
2.5°	575.8	578.4	577.1	577.1	578.4	578.4	581.0	578.4	582.2	581.0	579.7
5°	552.8	551.5	554.1	557.9	563.1	572.0	577.1	578.4	581.0	584.8	584.8
7.5°	509.3	510.6	515.7	524.7	538.7	559.2	579.7	581.0	588.7	597.6	602.7
10°	499.1	500.3	502.9	515.7	529.8	552.8	579.7	586.1	600.2	614.3	627.0
12.5°	493.9	496.5	499.1	514.4	534.9	557.9	586.1	593.7	614.3	637.3	656.5
15°	497.8	499.1	502.9	515.7	537.5	568.1	598.8	611.7	632.1	661.6	685.9
17.5°	513.1	513.1	510.6	522.1	541.3	579.7	619.4	637.3	659.0	689.7	720.4
20°	550.2	550.2	545.1	538.7	551.5	589.9	645.0	668.0	693.6	725.5	755.0
22.5°	627.0	625.8	610.3	587.3	582.2	609.1	671.8	697.4	731.9	765.2	790.8
25°	739.6	739.6	712.8	674.4	647.5	645.0	699.9	731.9	775.5	807.4	824.1
27.5°	868.9	863.7	827.9	784.4	733.2	705.1	743.5	772.9	822.8	854.8	858.6
30°	970.0	975.1	941.8	881.7	821.5	784.4	798.5	830.4	884.2	908.5	899.6
32.5°	1094.1	1081.3	1053.1	996.8	927.7	875.2	872.7	891.9	938.0	967.4	943.1
35°	1177.2	1173.4	1154.2	1104.3	1031.4	976.3	948.2	970.0	1013.4	1027.5	998.1
37.5°	1264.3	1266.8	1254.1	1208.0	1146.5	1072.3	1051.9	1063.4	1108.2	1115.9	1077.5
40°	1383.2	1385.8	1378.2	1332.1	1256.6	1200.3	1182.4	1193.9	1234.9	1233.5	1176.0
42.5°	1533.0	1534.3	1538.1	1469.0	1388.4	1333.4	1321.9	1329.5	1375.6	1360.2	1298.8
45°	1726.2	1717.3	1721.1	1654.6	1557.3	1497.2	1478.0	1472.8	1504.8	1504.8	1438.3
47.5°	1873.4	1879.7	1888.8	1842.7	1759.5	1708.3	1634.1	1614.9	1644.3	1653.3	1585.5
50°	2002.6	2021.8	2016.7	2028.2	1960.4	1940.0	1809.4	1768.5	1805.6	1810.7	1746.7
52.5°	2085.8	2121.6	2128.0	2171.6	2189.4	2216.4	1988.6	1952.7	1968.1	1969.3	1916.9
55°	2084.5	2113.9	2186.9	2286.7	2380.1	2450.5	2181.8	2140.8	2139.5	2139.5	2103.7
57.5°	2047.4	2066.6	2202.3	2330.2	2509.4	2622.0	2378.8	2326.4	2304.6	2307.2	2303.4
60°	1945.1	1978.3	2166.4	2341.7	2609.2	2737.1	2538.8	2504.3	2485.1	2445.4	2540.1
62.5°	1849.1	1859.3	2033.4	2312.3	2625.8	2787.0	2724.4	2692.3	2670.6	2592.5	2730.7
65°	1648.1	1654.6	1819.6	2152.3	2564.4	2819.0	2883.0	2865.1	2819.0	2728.2	2888.2
67.5°	1365.4	1385.8	1524.0	1907.9	2400.6	2833.1	3008.4	2995.6	2938.1	2788.3	2958.5
70°	1008.3	1025.0	1195.2	1536.9	2117.8	2758.9	3169.7	3155.6	3037.9	2816.5	2876.6
72.5°	601.4	605.3	758.8	1069.8	1643.0	2496.6	3219.5	3252.8	3104.4	2769.2	2615.6
75°	245.7	230.4	299.4	514.4	1004.5	1846.5	2987.9	3064.7	3030.2	2595.1	2160.1
77.5°	115.2	113.9	152.3	264.9	424.9	950.8	2408.3	2510.6	2568.2	2231.7	1639.2
80°	65.2	66.6	87.0	134.4	243.1	254.6	1435.8	1622.6	1649.5	1424.2	943.1
82.5°	53.7	53.7	58.9	74.2	136.9	113.9	261.1	515.7	733.2	646.2	340.4
85°	20.4	21.8	25.6	30.7	64.0	43.5	56.3	78.1	130.5	181.7	30.7
87.5°	1.3	1.3	1.3	2.6	2.6	3.8	5.1	6.4	5.1	6.4	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°	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2
2.5°	583.5	584.8	586.1	587.3	589.9	593.7	596.3	596.3	598.8	602.7	604.0
5°	587.3	591.2	596.3	604.0	614.3	624.4	636.0	642.4	647.5	652.6	652.6
7.5°	605.3	610.3	624.4	639.8	660.3	676.9	687.2	699.9	706.3	711.5	711.5
10°	636.0	641.1	666.7	693.6	716.6	735.8	740.9	744.7	749.9	755.0	748.5
12.5°	664.1	682.1	711.5	740.9	771.6	778.0	770.3	749.9	739.6	738.4	733.2
15°	697.4	719.2	760.1	789.5	813.9	793.3	751.1	746.0	751.1	761.4	762.6
17.5°	735.8	752.5	799.8	835.6	824.1	778.0	776.7	776.7	779.3	780.6	776.7
20°	766.5	794.7	845.9	866.3	811.3	794.7	785.7	775.5	771.6	771.6	770.3
22.5°	803.6	826.6	881.7	868.9	808.8	793.3	771.6	758.8	758.8	765.2	762.6
25°	835.6	868.9	917.5	858.6	807.4	771.6	747.3	742.2	744.7	755.0	752.5
27.5°	867.6	906.0	938.0	845.9	778.0	733.2	717.9	716.6	703.8	706.3	703.8
30°	911.1	941.8	939.3	840.7	731.9	694.8	679.5	642.4	623.2	633.4	633.4
32.5°	947.0	980.2	929.0	801.1	682.1	657.7	598.8	561.7	555.4	561.7	569.5
35°	1001.9	1030.1	922.6	747.3	630.9	587.3	515.7	491.4	485.0	488.8	492.7
37.5°	1080.0	1090.2	947.0	679.5	584.8	497.8	446.6	428.7	412.0	396.7	401.8
40°	1178.6	1167.1	975.1	628.3	522.1	423.5	395.4	373.6	343.0	319.9	318.6
42.5°	1287.3	1238.7	977.7	584.8	450.5	373.6	348.0	321.2	289.2	263.6	261.1
45°	1414.0	1333.4	957.1	546.4	381.3	339.1	310.9	279.0	248.2	227.8	229.0
47.5°	1563.7	1432.0	929.0	502.9	339.1	307.1	275.1	247.0	222.7	206.0	207.3
50°	1724.9	1526.6	897.0	451.7	304.6	275.1	247.0	223.9	204.8	193.2	191.9
52.5°	1899.0	1634.1	882.9	387.7	273.8	252.1	227.8	211.2	193.2	176.6	172.7
55°	2088.3	1735.2	891.9	312.3	244.4	231.6	217.5	197.1	197.1	191.9	188.1
57.5°	2259.8	1833.7	926.4	263.6	221.4	223.9	215.0	236.7	243.1	235.4	231.6
60°	2418.5	1934.8	925.2	227.8	209.8	243.1	271.3	263.6	226.5	211.2	206.0
62.5°	2527.3	2020.5	820.3	202.2	218.8	290.5	279.0	234.2	200.9	194.5	190.7
65°	2596.3	2058.9	615.5	188.1	226.5	273.8	249.5	208.6	185.6	186.8	185.6
67.5°	2565.7	2029.5	418.4	168.9	200.9	235.4	226.5	191.9	168.9	179.2	175.3
70°	2394.2	1920.7	275.1	153.5	177.9	211.2	208.6	174.1	153.5	157.4	152.3
72.5°	2061.5	1685.3	198.3	135.6	151.0	184.2	189.4	157.4	134.4	131.8	127.9
75°	1649.5	1300.1	145.9	117.8	125.4	154.8	166.4	138.2	117.8	111.3	108.8
77.5°	1186.2	842.0	111.3	97.2	101.1	126.7	144.6	115.2	94.7	87.0	84.5
80°	655.1	408.2	83.2	75.5	73.0	94.7	106.2	96.0	73.0	67.8	65.2
82.5°	229.0	121.6	57.6	48.6	46.0	66.6	76.8	70.4	49.9	42.2	43.5
85°	26.9	34.5	24.4	23.0	20.4	26.9	34.5	26.9	15.3	14.1	14.1
87.5°	3.8	3.8	3.8	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
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)