

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: P511313

Luminaire Tested: **PRV-P-PA1D-8540-U-T2U-HSS**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1D-8540-U-T2U-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 1200mA LIGHT ENGINE 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: 6389.3 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93.4
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

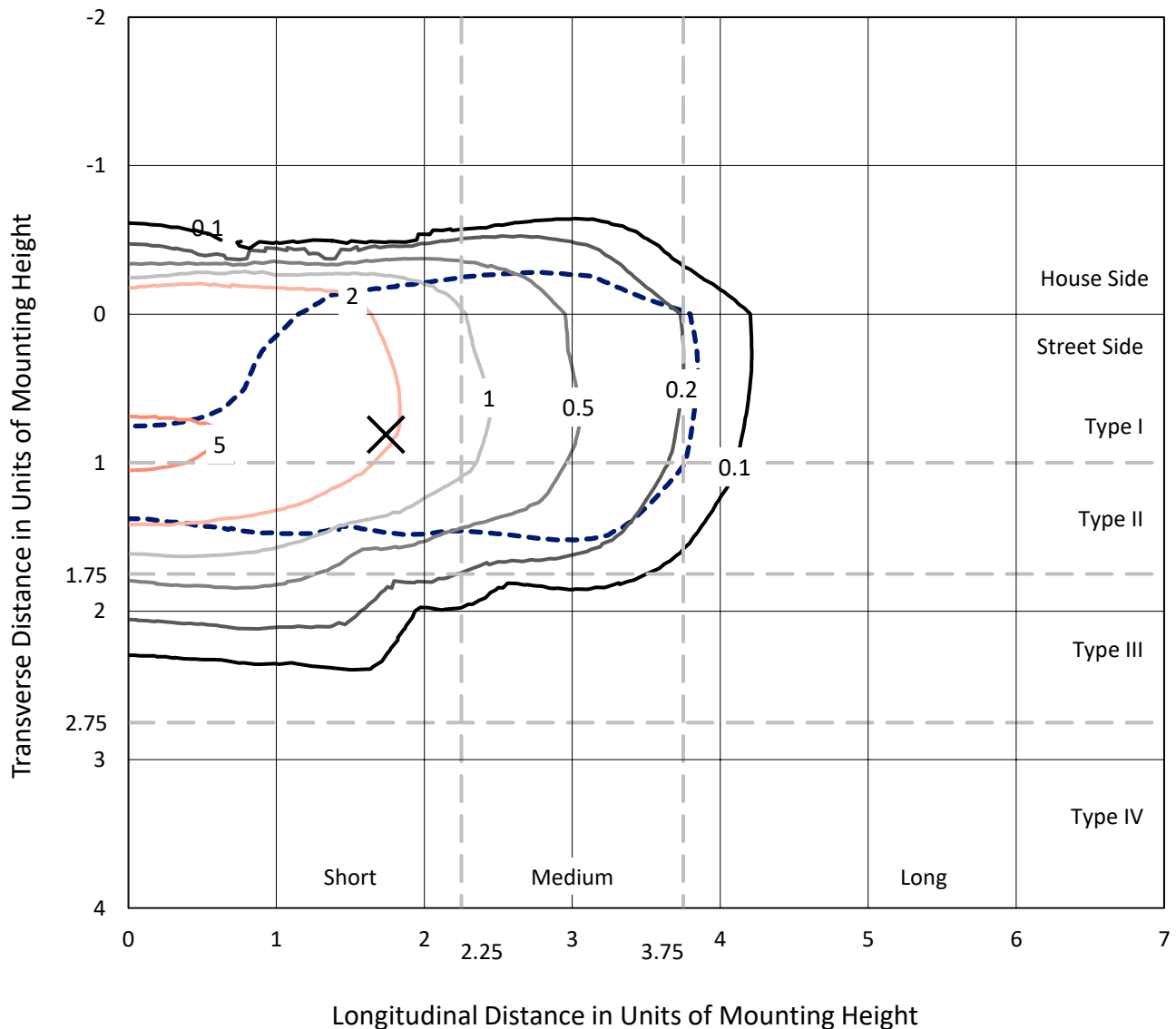


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

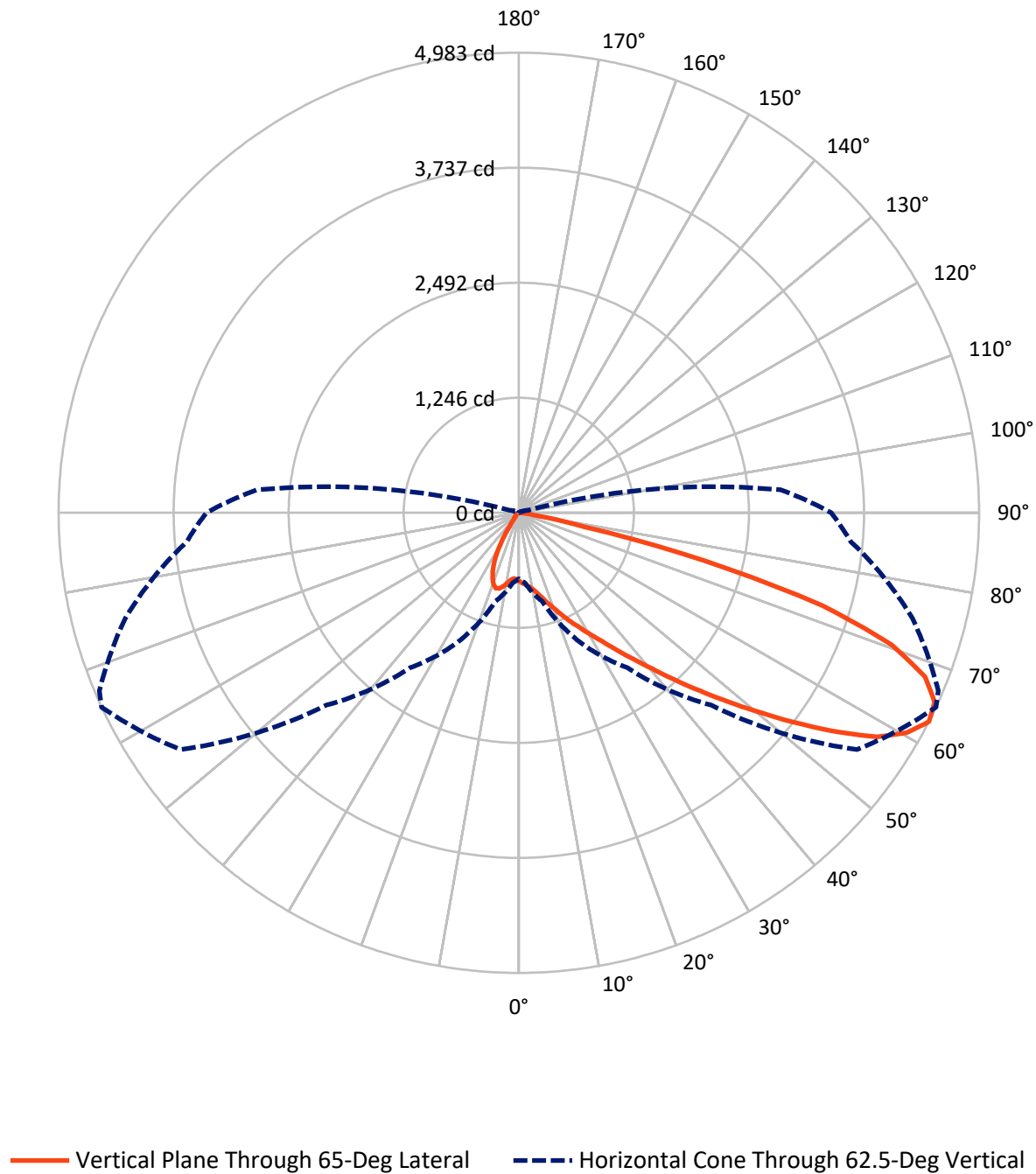


Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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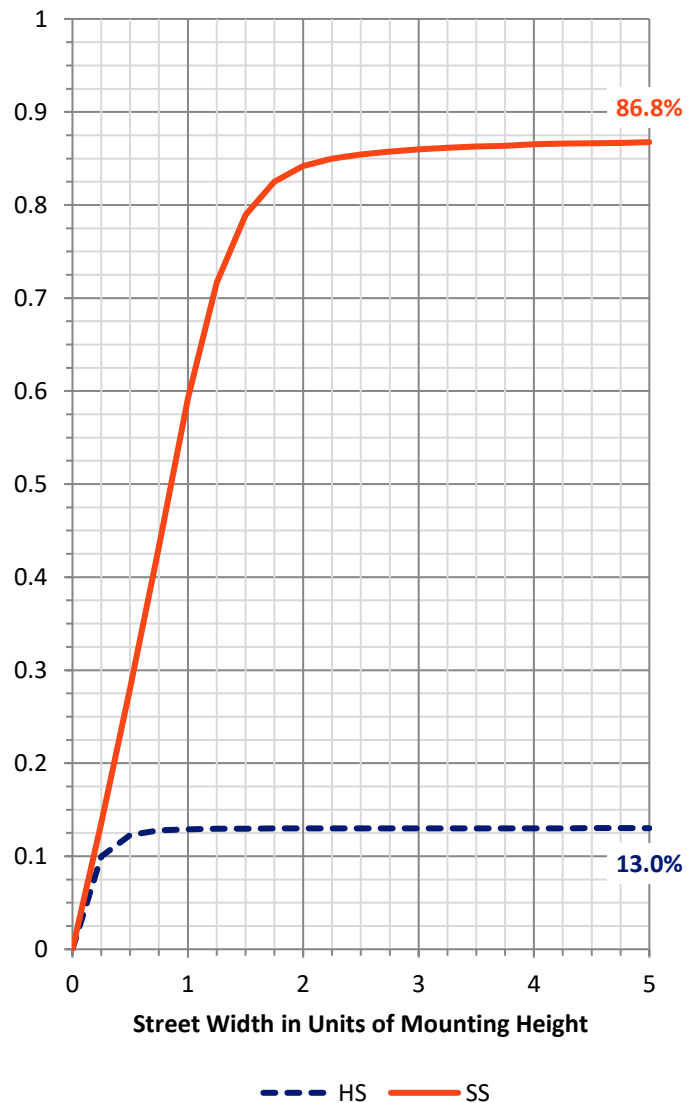
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.9	0.0	840.9
	% Fixture	13.2	0.0	13.2
Street Side	Lumens	5548.4	0.0	5548.4
	% Fixture	86.8	0.0	86.8
Total	Lumens	6389.3	0.0	6389.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.1
10°-20°	209.7	3.3
20°-30°	373.9	5.9
30°-40°	682.2	10.7
40°-50°	1282.3	20.1
50°-60°	1700.3	26.6
60°-70°	1413.0	22.1
70°-80°	627.7	9.8
80°-90°	29.6	0.5
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°	6389.3	100.0
0°-180°	6389.3	100.0

Coefficient of Utilization



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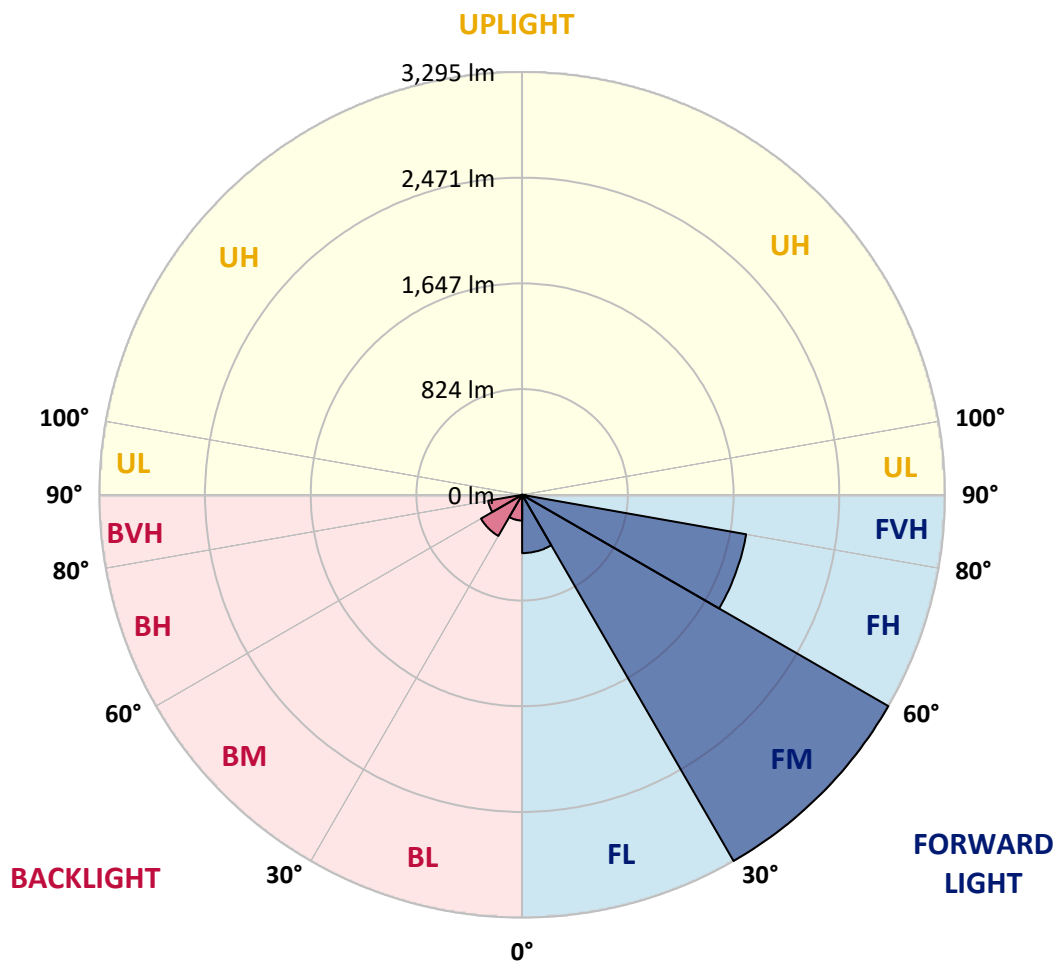
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.1	7.1			
FM	(30°-60°)	3294.7	51.6			
FH	(60°-80°)	1772.4	27.7			G1/1800
FVH	(80°-90°)	27.3	0.4			G1/100
BL	(0°-30°)	200.1	3.1	B1/500		
BM	(30°-60°)	370.1	5.8	B1/1000		
BH	(60°-80°)	268.4	4.2	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	770.0	773.9	770.0	775.9	772.0	770.0	768.0	764.1	762.1	754.3	750.3
5°	758.2	758.2	762.1	770.0	772.0	779.8	779.8	781.7	777.8	775.9	766.1
7.5°	748.4	750.3	754.3	764.1	770.0	785.7	795.5	809.2	809.2	803.4	799.4
10°	773.9	775.9	779.8	791.6	797.5	819.1	830.8	842.7	844.6	846.6	844.6
12.5°	815.2	815.2	819.1	828.9	842.7	866.2	882.0	891.8	891.8	897.6	893.7
15°	874.1	872.1	876.0	882.0	889.8	919.2	942.8	958.5	958.5	954.6	942.8
17.5°	935.0	938.9	946.8	946.8	950.7	978.2	1009.6	1033.2	1035.1	1025.3	1001.8
20°	1005.7	1009.6	1011.6	1021.4	1017.5	1043.0	1074.4	1111.8	1115.7	1103.9	1062.7
22.5°	1066.6	1074.4	1084.3	1094.1	1101.9	1127.4	1153.0	1204.1	1208.0	1194.2	1129.5
25°	1147.1	1141.2	1158.9	1166.7	1182.5	1210.0	1243.4	1306.2	1310.1	1286.5	1208.0
27.5°	1223.8	1223.8	1237.5	1261.0	1268.9	1304.2	1339.6	1408.4	1420.1	1392.6	1286.5
30°	1359.3	1369.1	1363.2	1369.1	1361.2	1402.4	1457.5	1530.1	1536.0	1498.7	1378.9
32.5°	1667.6	1663.7	1610.7	1526.2	1490.8	1530.1	1593.0	1659.8	1669.6	1642.1	1471.3
35°	2064.5	2082.1	1989.8	1820.9	1677.5	1677.5	1728.6	1822.8	1828.7	1797.3	1602.8
37.5°	2588.9	2577.1	2441.6	2223.6	1958.4	1873.9	1923.0	2007.5	2017.2	1981.9	1758.0
40°	2946.4	2977.8	2907.0	2691.0	2359.0	2160.7	2135.2	2217.6	2229.4	2196.0	1928.9
42.5°	3227.3	3237.1	3221.3	3117.3	2838.3	2545.7	2398.3	2471.0	2471.0	2416.0	2129.2
45°	3427.6	3439.4	3435.5	3402.1	3262.6	3017.1	2746.0	2751.9	2763.7	2677.2	2331.5
47.5°	3494.4	3494.4	3553.3	3616.2	3620.1	3535.6	3186.0	3060.3	3044.6	2954.3	2547.6
50°	3313.7	3319.6	3464.9	3698.7	3881.3	4001.1	3679.0	3407.9	3370.7	3258.7	2791.2
52.5°	2814.7	2808.9	3060.3	3531.7	4024.7	4344.9	4081.7	3789.0	3738.0	3514.0	2997.4
55°	2262.8	2304.1	2563.3	3025.0	3883.3	4515.8	4403.8	4189.8	4083.7	3800.8	3191.9
57.5°	1703.0	1769.8	2133.2	2524.1	3333.3	4394.0	4594.3	4578.7	4476.5	4046.3	3362.8
60°	1094.1	1155.0	1536.0	2019.3	2693.0	3897.1	4627.8	4830.1	4779.0	4266.3	3529.8
62.5°	715.0	762.1	997.9	1534.1	2046.8	2946.4	4470.6	4983.3	4934.2	4411.7	3610.3
65°	420.3	438.0	591.2	1050.9	1502.7	1919.1	4048.3	4947.9	4979.3	4539.4	3661.4
67.5°	302.5	304.4	375.1	583.4	1060.7	1107.9	3058.3	4743.6	4812.4	4582.6	3643.7
70°	257.3	265.2	314.3	385.0	742.5	581.4	1771.8	4282.1	4451.0	4523.6	3598.5
72.5°	198.4	210.2	259.3	330.0	532.3	392.8	671.7	3445.3	3675.1	4081.7	3427.6
75°	125.7	137.5	192.5	263.2	377.2	314.3	273.0	2072.3	2315.9	2826.6	2744.0
77.5°	74.6	76.6	117.8	188.5	333.9	233.7	159.1	719.0	950.7	1376.9	1408.4
80°	37.3	41.3	64.8	119.8	206.2	172.9	96.2	218.1	273.0	475.4	330.0
82.5°	21.6	23.6	35.4	66.8	108.1	102.1	53.0	96.2	108.1	129.7	56.9
85°	2.0	3.9	17.7	27.5	37.3	23.6	21.6	39.3	41.3	59.0	19.7
87.5°	0.0	0.0	2.0	2.0	3.9	3.9	5.9	7.8	7.8	7.8	5.9
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°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	742.5	742.5	730.7	720.9	715.0	707.1	697.3	693.3	687.5	685.5	687.5
5°	762.1	752.3	730.7	713.0	697.3	683.6	669.8	663.9	658.0	658.0	658.0
7.5°	793.6	781.7	756.2	734.6	715.0	703.2	681.6	660.0	640.3	634.5	630.5
10°	838.7	825.0	797.5	773.9	750.3	707.1	646.2	585.4	542.1	520.5	522.5
12.5°	883.9	868.2	842.7	815.2	760.1	656.1	544.1	443.9	379.1	345.7	335.9
15°	935.0	917.3	887.8	846.6	724.8	555.9	396.7	263.2	192.5	168.9	161.1
17.5°	991.9	966.4	936.9	854.4	646.2	408.6	220.0	137.5	115.9	110.0	108.1
20°	1043.0	1021.4	980.2	819.1	532.3	251.4	123.7	102.1	94.3	90.4	90.4
22.5°	1101.9	1070.5	1021.4	758.2	392.8	141.4	96.2	84.5	76.6	74.6	72.7
25°	1162.8	1123.5	1050.9	675.7	249.5	100.1	80.6	70.7	62.9	59.0	60.9
27.5°	1233.5	1172.6	1062.7	567.7	143.4	84.5	66.8	56.9	51.1	49.1	49.1
30°	1288.6	1233.5	1048.9	445.9	98.2	72.7	55.0	45.2	41.3	39.3	39.3
32.5°	1369.1	1294.5	1011.6	292.7	80.6	60.9	45.2	37.3	33.4	33.4	33.4
35°	1479.1	1374.9	950.7	174.8	68.7	51.1	37.3	31.4	29.4	29.4	29.4
37.5°	1620.5	1498.7	895.7	102.1	56.9	41.3	31.4	27.5	25.5	25.5	25.5
40°	1773.7	1638.2	830.8	72.7	47.1	35.4	27.5	23.6	21.6	21.6	23.6
42.5°	1966.2	1797.3	740.5	62.9	41.3	29.4	23.6	19.7	17.7	19.7	19.7
45°	2143.0	1966.2	634.5	53.0	35.4	25.5	19.7	15.7	15.7	17.7	17.7
47.5°	2363.0	2135.2	498.9	47.1	31.4	21.6	15.7	13.8	13.8	15.7	15.7
50°	2563.3	2306.0	367.3	41.3	27.5	17.7	13.8	11.8	11.8	11.8	13.8
52.5°	2765.6	2476.9	280.9	35.4	23.6	15.7	11.8	9.8	7.8	9.8	9.8
55°	2954.3	2612.5	214.1	31.4	19.7	13.8	9.8	7.8	5.9	7.8	7.8
57.5°	3131.0	2716.5	174.8	27.5	17.7	11.8	7.8	5.9	5.9	5.9	5.9
60°	3264.6	2797.1	133.6	23.6	15.7	9.8	5.9	3.9	3.9	3.9	3.9
62.5°	3382.4	2846.2	106.1	19.7	13.8	7.8	3.9	3.9	2.0	2.0	2.0
65°	3455.1	2854.0	84.5	17.7	11.8	7.8	3.9	2.0	0.0	0.0	0.0
67.5°	3484.6	2822.6	68.7	13.8	9.8	5.9	3.9	2.0	0.0	0.0	0.0
70°	3472.8	2718.5	53.0	11.8	7.8	3.9	3.9	2.0	0.0	0.0	0.0
72.5°	3319.6	2410.2	39.3	9.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0
75°	2596.7	1298.4	27.5	7.8	3.9	3.9	2.0	2.0	0.0	0.0	0.0
77.5°	1374.9	461.6	17.7	5.9	3.9	2.0	2.0	2.0	0.0	0.0	0.0
80°	247.5	96.2	7.8	3.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0
82.5°	39.3	9.8	3.9	3.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0
85°	13.8	5.9	3.9	3.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	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)