

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: P511311

Luminaire Tested: **PRV-P-PA1D-8540-U-T2R-HSS**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-2)
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-T2R-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7320.3 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

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

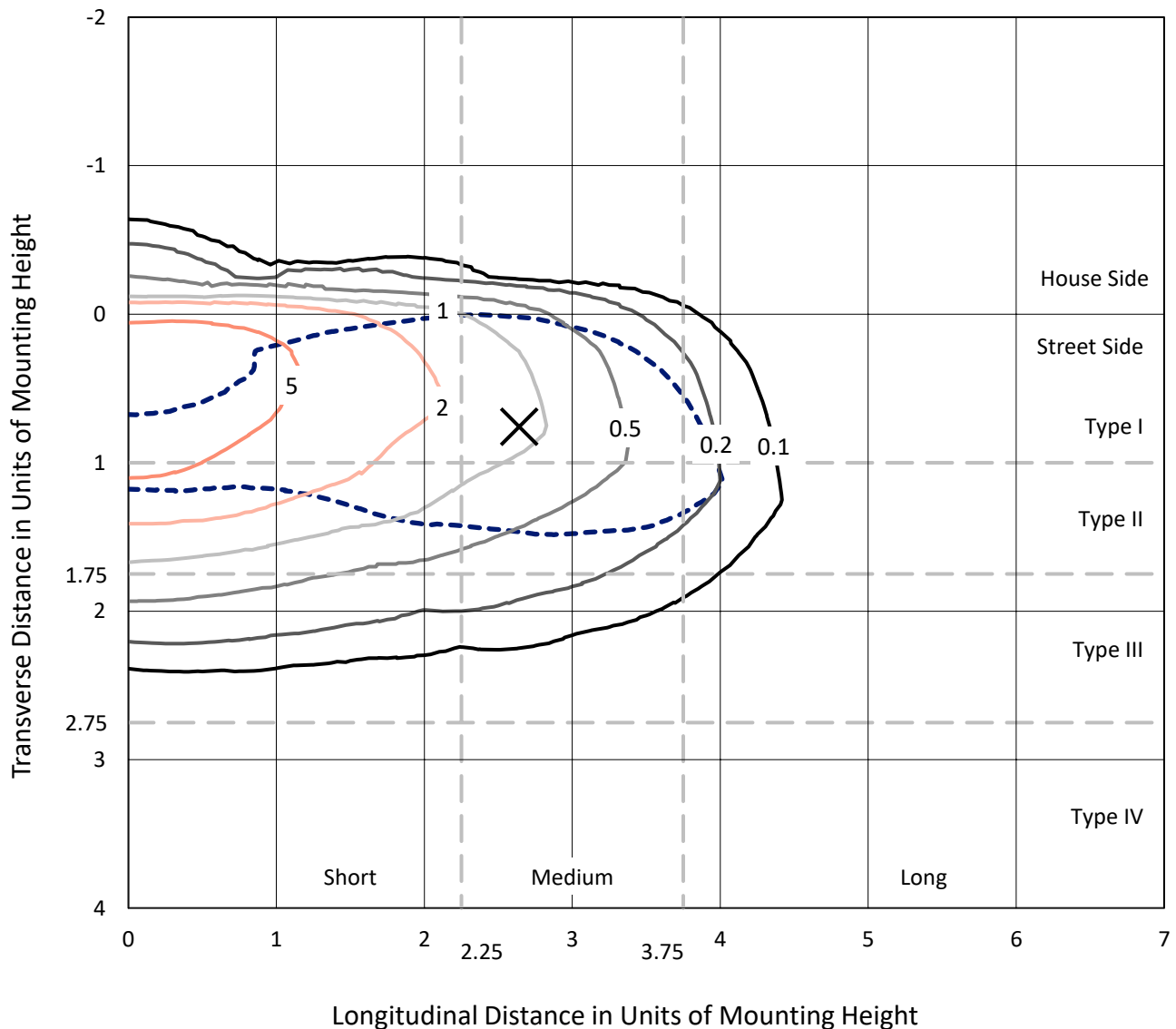


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

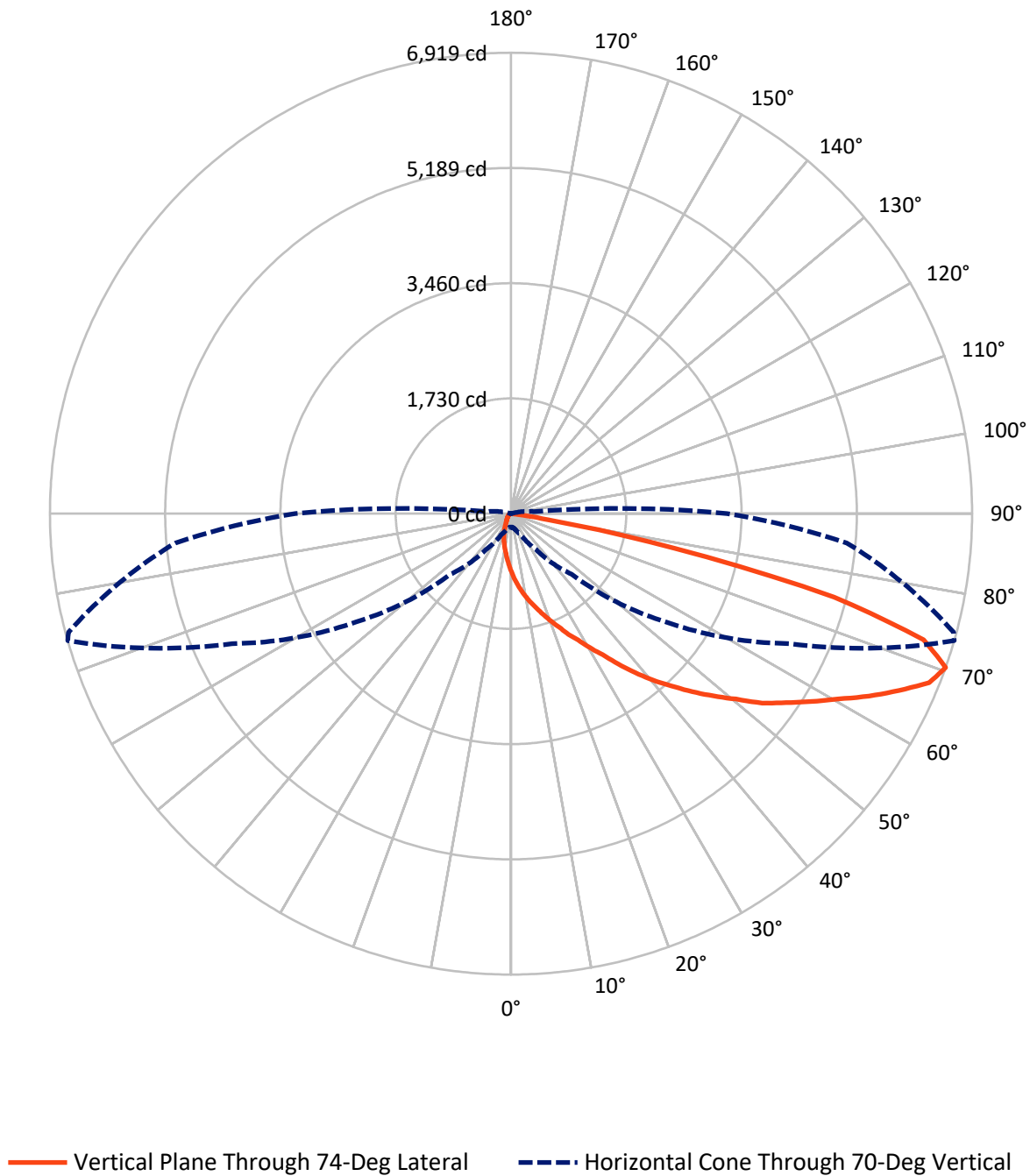


Based on 15 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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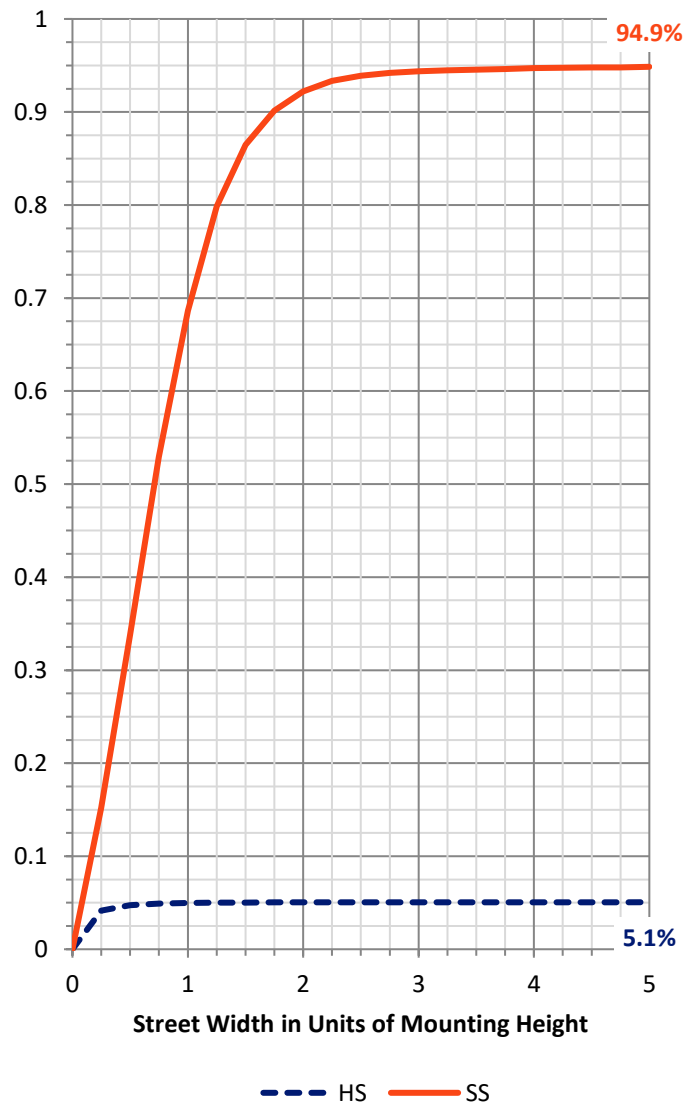
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	372.4	0.0	372.4
	% Fixture	5.1	0.0	5.1
Street Side	Lumens	6947.8	0.0	6947.8
	% Fixture	94.9	0.0	94.9
Total	Lumens	7320.3	0.0	7320.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.1
10°-20°	265.4	3.6
20°-30°	530.7	7.2
30°-40°	991.9	13.5
40°-50°	1469.9	20.1
50°-60°	1680.8	23.0
60°-70°	1522.2	20.8
70°-80°	751.6	10.3
80°-90°	25.4	0.3
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°	7320.3	100.0
0°-180°	7320.3	100.0

Coefficient of Utilization



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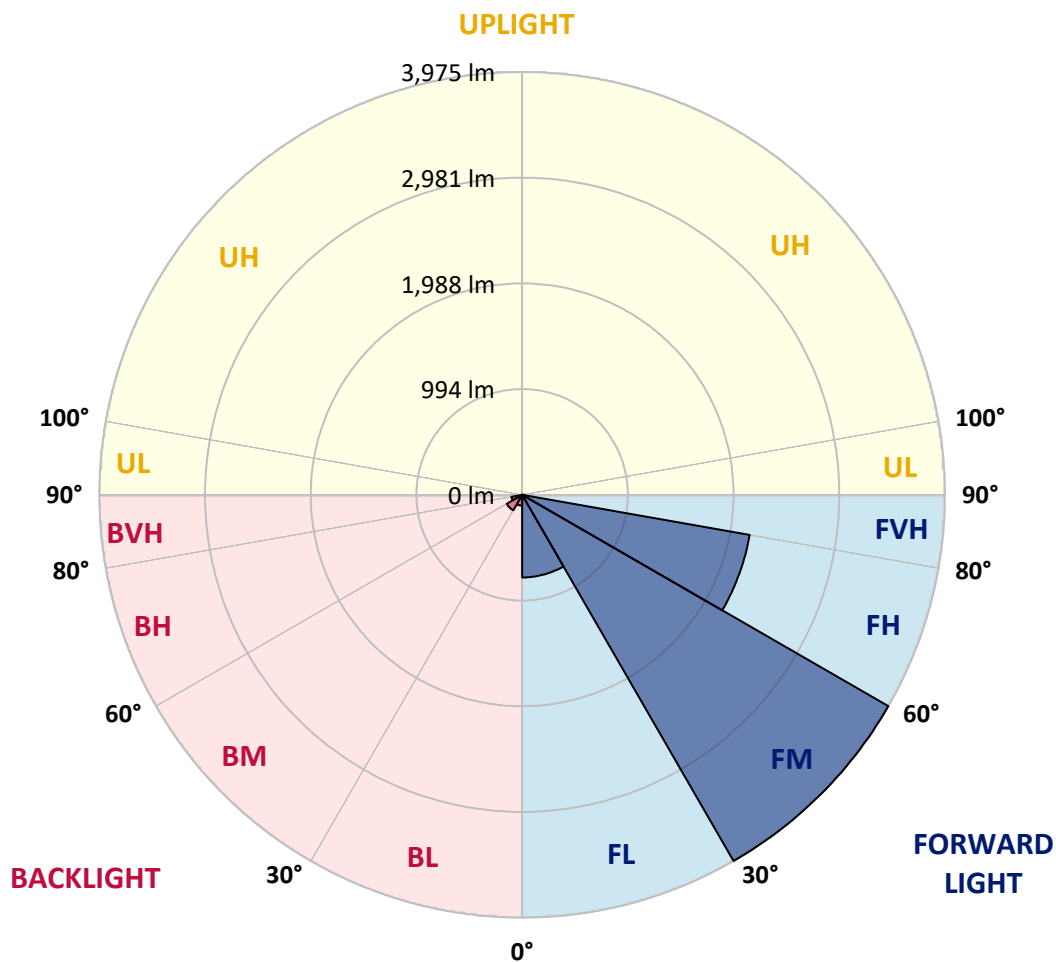
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.0	10.6			
FM	(30°-60°)	3975.1	54.3			
FH	(60°-80°)	2171.7	29.7			G2/5000
FVH	(80°-90°)	23.9	0.3			G1/100
BL	(0°-30°)	101.4	1.4	B0/110		
BM	(30°-60°)	167.4	2.3	B0/220		
BH	(60°-80°)	102.1	1.4	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	1196.0	1188.2	1180.4	1180.4	1156.8	1109.7	1082.2	1035.0	978.0	966.3	915.2
5°	1368.9	1376.7	1367.0	1347.3	1325.7	1288.3	1235.3	1156.8	1076.2	1070.4	950.6
7.5°	1457.2	1461.2	1455.3	1457.2	1445.5	1406.2	1364.9	1280.5	1176.5	1166.6	1003.6
10°	1531.9	1535.9	1529.9	1533.9	1516.2	1508.3	1471.0	1392.5	1280.5	1268.7	1064.5
12.5°	1626.1	1624.2	1622.2	1630.1	1608.5	1594.7	1571.2	1500.5	1382.6	1361.0	1137.2
15°	1683.1	1687.1	1683.1	1704.7	1710.6	1696.8	1661.5	1606.6	1484.7	1471.0	1209.8
17.5°	1722.4	1722.4	1740.1	1775.5	1791.1	1797.1	1787.2	1714.5	1602.6	1583.0	1298.2
20°	1763.6	1775.5	1791.1	1832.4	1861.8	1891.3	1907.0	1867.8	1724.4	1706.7	1384.6
22.5°	1875.6	1879.5	1881.5	1920.8	1948.3	1987.6	2005.2	2007.1	1852.0	1836.3	1473.0
25°	2209.5	2182.0	2125.0	2077.8	2089.7	2099.5	2099.5	2156.5	2007.1	1977.7	1567.3
27.5°	2665.1	2649.4	2576.7	2460.9	2266.4	2250.7	2231.1	2315.5	2148.6	2111.3	1651.7
30°	3091.3	3087.4	2985.3	2849.7	2645.4	2441.2	2366.6	2456.9	2335.1	2278.2	1736.1
32.5°	3376.1	3381.9	3328.9	3218.9	3036.3	2763.3	2519.8	2592.4	2523.7	2484.5	1840.2
35°	3562.6	3562.6	3521.4	3460.5	3334.8	3112.9	2747.6	2761.3	2771.2	2729.9	1981.6
37.5°	3688.3	3674.6	3631.4	3596.0	3537.1	3415.4	3083.5	2942.0	3026.5	2946.0	2136.8
40°	3778.7	3755.1	3725.7	3682.4	3658.9	3639.2	3419.3	3146.3	3287.7	3209.1	2303.7
42.5°	3821.9	3818.0	3782.6	3753.2	3741.3	3802.2	3721.8	3389.8	3537.1	3478.2	2472.6
45°	3829.7	3831.7	3821.9	3782.6	3788.5	3912.3	3945.6	3668.7	3812.0	3743.4	2669.0
47.5°	3770.8	3770.8	3798.3	3804.2	3812.0	3957.4	4161.6	3984.9	4087.0	4010.4	2865.5
50°	3519.4	3550.8	3647.1	3731.5	3761.0	3983.0	4307.0	4265.7	4375.7	4291.3	3101.1
52.5°	2843.9	2891.0	3211.1	3499.8	3694.2	3965.3	4393.4	4546.6	4723.4	4650.7	3346.6
55°	2152.5	2197.6	2449.1	3034.4	3478.2	3910.3	4434.7	4721.4	5008.1	4939.4	3570.5
57.5°	1822.6	1804.9	1952.2	2423.5	3065.8	3753.2	4473.9	4853.0	5320.4	5241.9	3814.0
60°	1549.6	1524.0	1618.3	1883.4	2456.9	3446.8	4503.3	4935.5	5644.5	5560.0	4094.9
62.5°	1180.4	1192.1	1280.5	1516.2	1975.7	2922.4	4442.5	4996.3	6029.4	5946.9	4391.5
65°	712.9	765.9	915.2	1150.9	1553.5	2347.0	4171.5	5014.0	6398.6	6324.0	4699.8
67.5°	349.6	377.1	481.2	716.8	1129.3	1859.9	3602.0	4929.5	6767.9	6730.5	4992.4
70°	204.3	202.3	241.6	345.7	658.0	1284.4	2830.1	4615.3	6919.1	6873.9	5055.3
72.5°	151.2	159.1	178.8	206.2	322.1	818.9	2048.4	4051.6	6473.2	6388.8	4493.6
75°	106.0	110.0	137.5	157.1	190.5	410.4	1290.3	2961.7	5008.1	4880.4	3006.9
77.5°	80.5	84.5	98.2	129.6	149.2	200.3	467.5	1604.6	2513.9	2403.9	1213.7
80°	37.3	39.3	60.9	84.5	108.1	117.8	125.7	483.1	563.7	494.9	182.7
82.5°	23.6	27.5	35.3	62.9	76.6	53.0	51.1	106.0	94.3	86.4	43.2
85°	2.0	2.0	15.7	23.6	15.7	7.8	25.5	25.5	29.4	31.4	15.7
87.5°	0.0	0.0	0.0	2.0	3.9	3.9	5.9	5.9	5.9	5.9	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°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	881.8	848.5	785.6	724.7	671.7	616.7	577.4	565.6	544.0	528.3	540.1
5°	889.6	826.8	697.2	587.2	493.0	428.1	383.0	347.7	314.2	302.5	308.3
7.5°	909.3	809.2	620.6	481.2	371.2	290.6	243.5	216.0	198.3	190.5	186.6
10°	940.8	805.2	559.8	390.8	269.0	200.3	170.9	159.1	155.2	153.2	153.2
12.5°	970.2	789.5	494.9	304.4	200.3	159.1	147.3	141.4	139.5	137.5	135.5
15°	1009.4	785.6	440.0	237.6	161.1	143.4	131.6	125.7	121.8	119.8	119.8
17.5°	1040.9	779.7	379.1	188.5	145.3	129.6	117.8	110.0	106.0	104.1	102.1
20°	1090.0	779.7	326.0	161.1	133.6	117.8	104.1	96.2	90.4	86.4	86.4
22.5°	1143.0	785.6	271.0	145.3	123.7	104.1	90.4	80.5	74.6	72.7	70.7
25°	1199.9	783.6	223.9	131.6	110.0	90.4	76.6	66.8	62.9	60.9	60.9
27.5°	1247.1	771.8	182.7	119.8	96.2	76.6	62.9	55.0	53.0	51.1	51.1
30°	1300.2	760.1	149.2	106.0	82.4	64.8	53.0	47.1	43.2	43.2	43.2
32.5°	1367.0	752.2	127.6	92.3	70.7	55.0	45.2	39.3	39.3	37.3	37.3
35°	1459.2	742.4	113.9	80.5	58.9	45.2	37.3	33.4	31.4	33.4	33.4
37.5°	1569.2	728.7	102.1	70.7	51.1	39.3	31.4	29.4	29.4	29.4	29.4
40°	1685.1	726.7	90.4	60.9	43.2	31.4	27.5	23.6	23.6	25.5	27.5
42.5°	1824.5	718.8	82.4	55.0	37.3	27.5	21.6	19.7	21.6	23.6	23.6
45°	1952.2	703.1	74.6	47.1	33.4	23.6	19.7	17.7	17.7	19.7	21.6
47.5°	2109.3	695.2	68.7	41.3	27.5	19.7	15.7	13.8	13.8	15.7	17.7
50°	2297.9	699.1	60.9	35.3	23.6	17.7	13.8	9.8	11.7	13.8	13.8
52.5°	2466.8	693.3	55.0	29.4	19.7	13.8	9.8	7.8	7.8	11.7	11.7
55°	2619.9	687.4	47.1	25.5	15.7	11.7	7.8	5.9	5.9	9.8	9.8
57.5°	2782.9	669.7	41.3	21.6	13.8	9.8	5.9	3.9	5.9	7.8	7.8
60°	2975.4	642.2	35.3	17.7	11.7	9.8	3.9	3.9	3.9	5.9	5.9
62.5°	3162.0	608.9	31.4	17.7	9.8	7.8	3.9	2.0	2.0	3.9	3.9
65°	3376.1	549.9	27.5	15.7	9.8	5.9	3.9	2.0	2.0	2.0	2.0
67.5°	3437.0	465.5	25.5	11.7	7.8	5.9	3.9	2.0	0.0	2.0	2.0
70°	3238.6	349.6	23.6	9.8	5.9	3.9	2.0	2.0	0.0	2.0	2.0
72.5°	2588.5	216.0	19.7	7.8	5.9	3.9	2.0	0.0	0.0	0.0	2.0
75°	1600.6	94.3	13.8	5.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0
77.5°	595.1	49.1	9.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
80°	84.5	21.6	5.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
82.5°	21.6	9.8	3.9	3.9	2.0	2.0	2.0	0.0	0.0	0.0	0.0
85°	9.8	5.9	3.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	3.9	3.9	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)