

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: P511312

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

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-1)
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
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8847.9 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

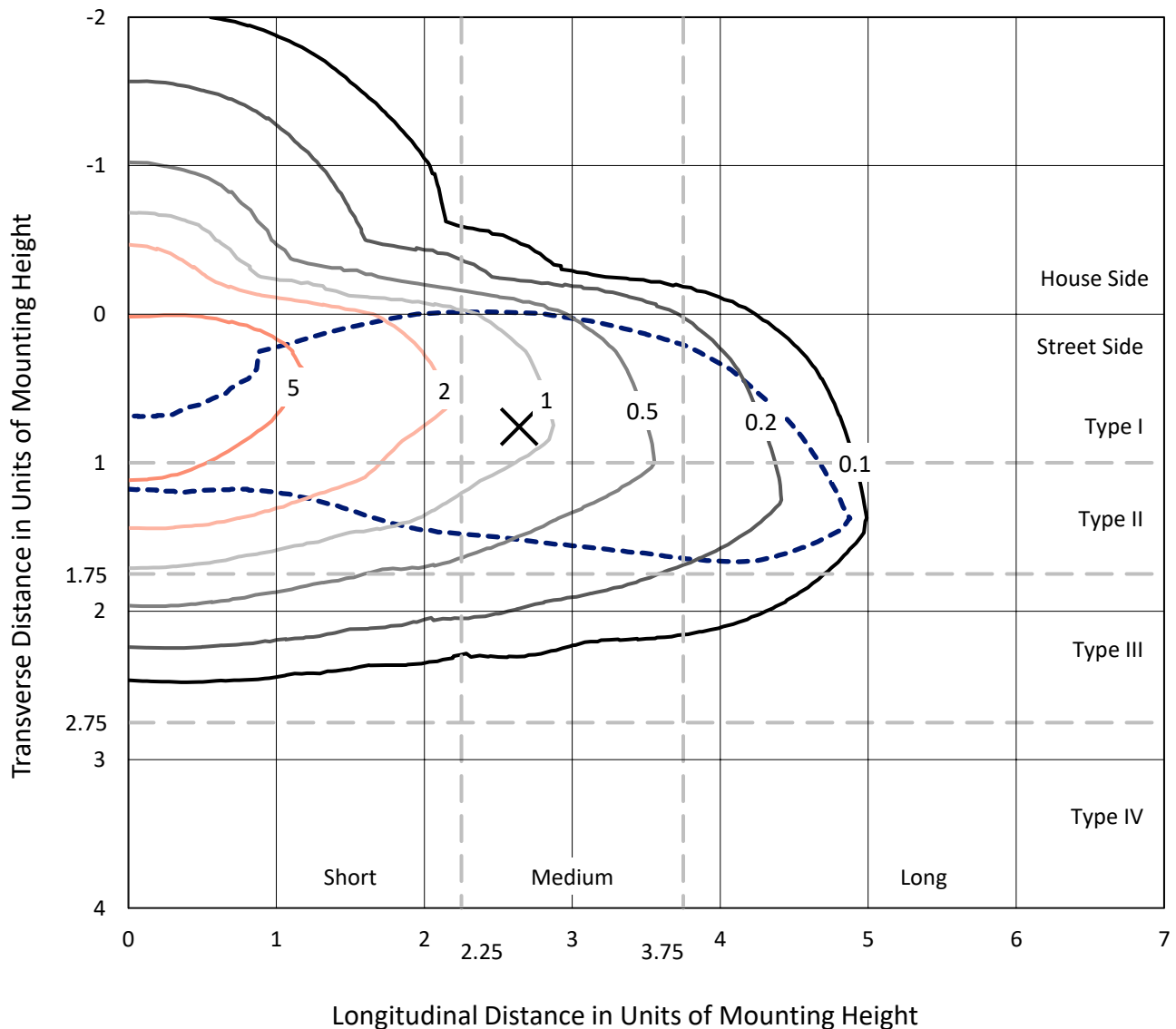


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

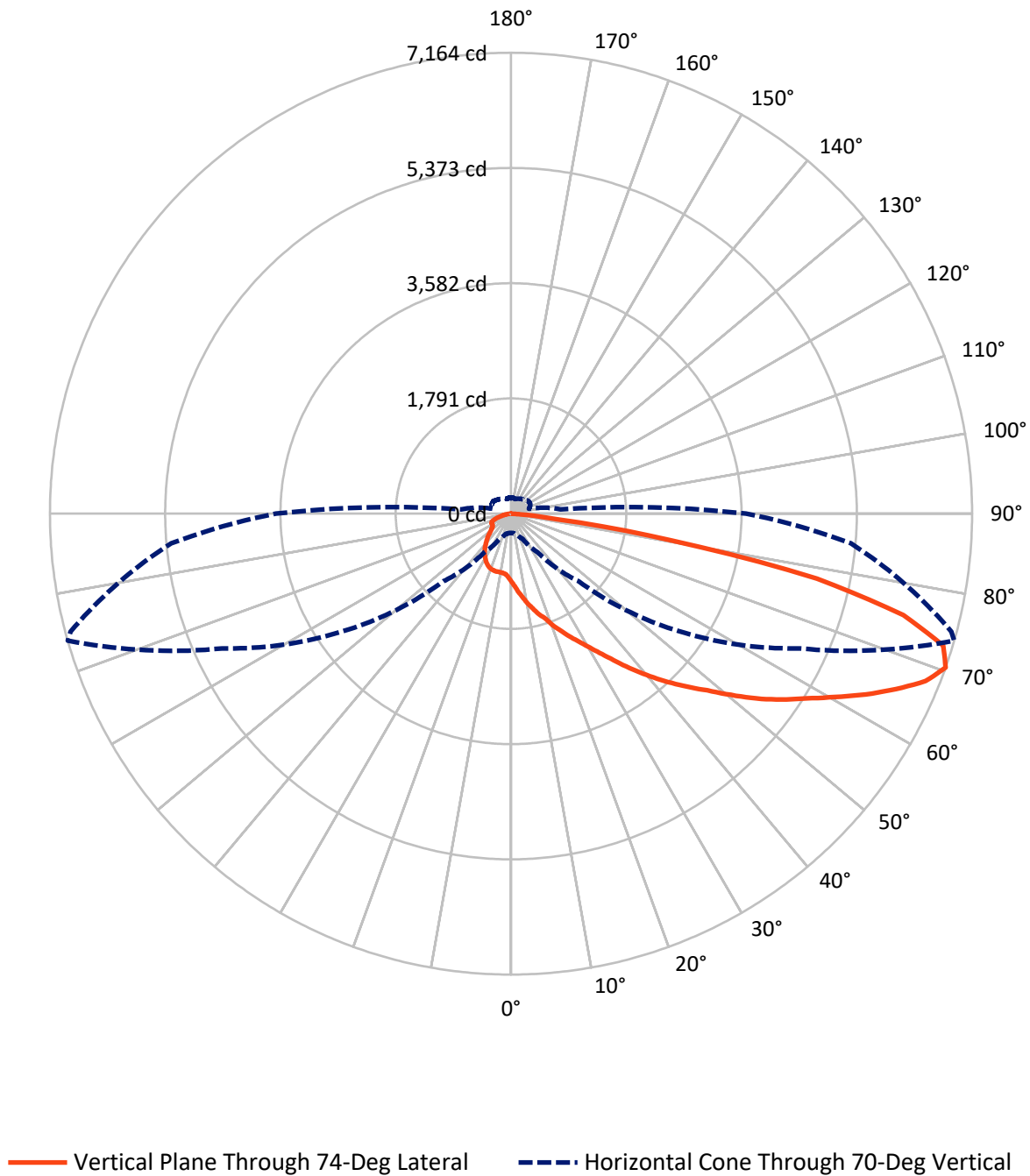


Based on 15 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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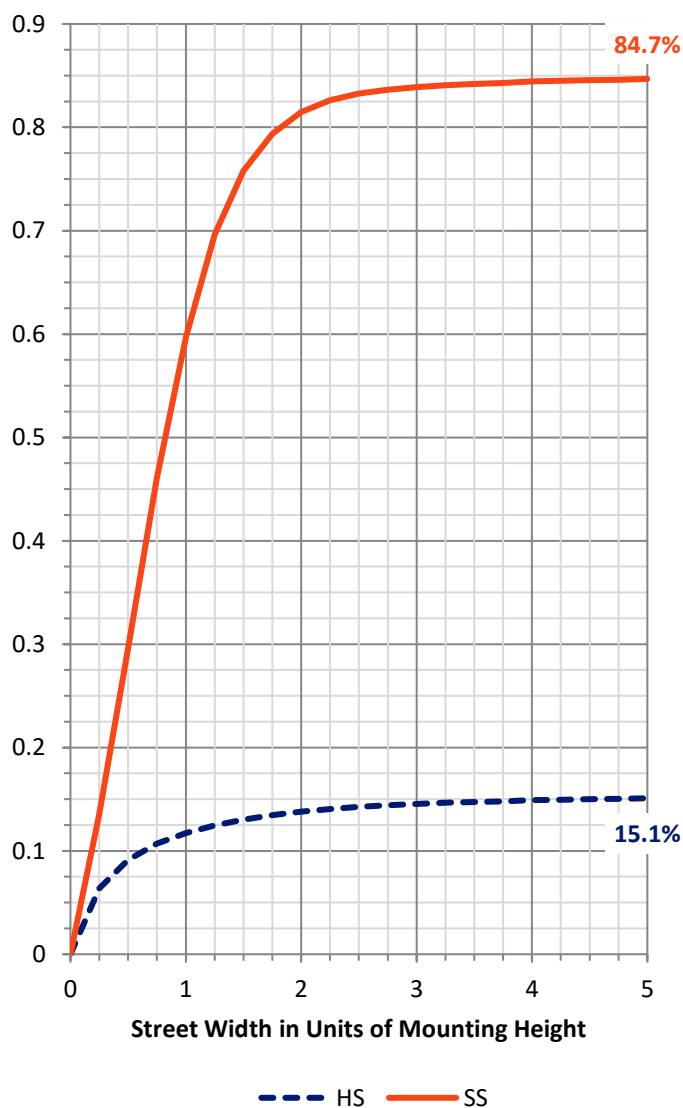
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.0	0.0	1346.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	7501.9	0.0	7501.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	8847.9	0.0	8847.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.3
10°-20°	370.4	4.2
20°-30°	688.9	7.8
30°-40°	1161.7	13.1
40°-50°	1647.0	18.6
50°-60°	1893.0	21.4
60°-70°	1766.3	20.0
70°-80°	1095.3	12.4
80°-90°	114.5	1.3
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°	8847.9	100.0
0°-180°	8847.9	100.0

Coefficient of Utilization



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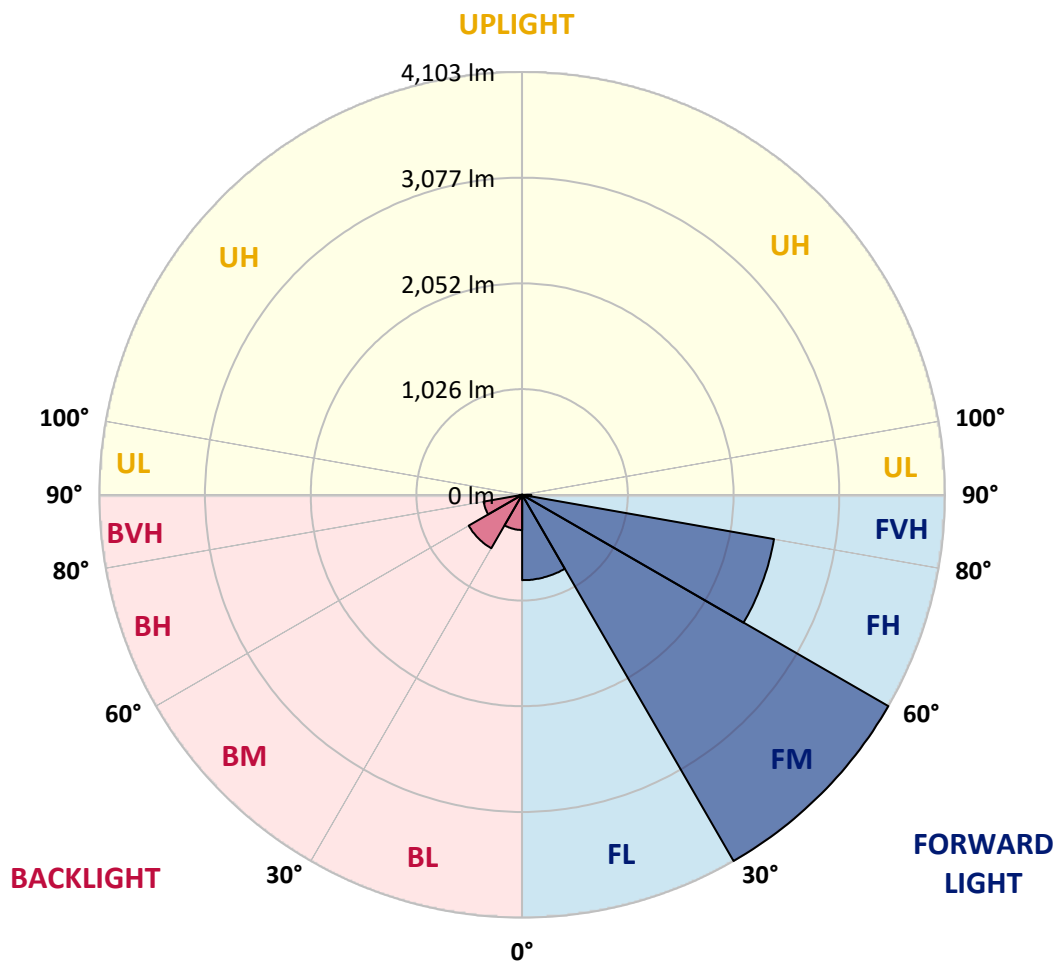
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.6	9.4			
FM	(30°-60°)	4103.1	46.4			
FH	(60°-80°)	2481.6	28.0			G2/5000
FVH	(80°-90°)	88.7	1.0			G1/100
BL	(0°-30°)	341.6	3.9	B1/500		
BM	(30°-60°)	598.6	6.8	B1/1000		
BH	(60°-80°)	380.0	4.3	B1/500		G1/500
BVH	(80°-90°)	25.8	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1323.9	1331.7	1325.9	1314.0	1292.5	1247.3	1217.8	1184.4	1129.4	1129.4	1088.2
5°	1506.6	1506.6	1496.7	1485.0	1465.3	1418.2	1373.0	1304.2	1223.8	1215.8	1125.5
7.5°	1591.1	1591.1	1591.1	1589.0	1581.2	1543.9	1492.8	1408.4	1314.0	1306.2	1162.8
10°	1663.7	1657.8	1659.8	1663.7	1655.8	1651.9	1608.7	1528.2	1418.2	1406.4	1233.5
12.5°	1738.3	1726.6	1730.5	1738.3	1744.2	1730.5	1699.0	1634.2	1512.4	1504.6	1294.5
15°	1789.4	1789.4	1795.3	1811.0	1818.9	1820.9	1797.3	1748.1	1620.5	1600.8	1369.1
17.5°	1826.7	1824.8	1836.5	1864.1	1893.5	1905.3	1913.2	1858.1	1708.9	1701.0	1439.8
20°	1871.9	1871.9	1887.7	1926.9	1964.2	1997.6	2019.2	1995.6	1850.3	1822.8	1532.1
22.5°	2001.6	2001.6	1999.5	2021.2	2058.5	2084.0	2119.4	2117.5	1974.0	1940.7	1618.5
25°	2313.8	2327.6	2266.7	2196.0	2194.0	2203.8	2211.7	2272.6	2113.5	2087.9	1710.9
27.5°	2763.7	2777.4	2685.1	2573.2	2418.0	2345.3	2313.8	2418.0	2253.0	2229.4	1797.3
30°	3185.9	3160.4	3111.3	2989.6	2771.5	2569.2	2447.4	2561.3	2416.0	2366.9	1868.0
32.5°	3472.8	3455.1	3411.8	3297.9	3119.2	2875.6	2616.3	2696.9	2602.6	2557.4	1980.0
35°	3631.9	3626.0	3580.8	3525.8	3427.6	3229.2	2854.0	2861.9	2822.6	2783.3	2107.6
37.5°	3765.4	3751.7	3704.5	3651.5	3614.2	3512.1	3168.3	3017.1	3076.0	3001.3	2243.1
40°	3855.8	3844.0	3808.7	3753.6	3747.8	3735.9	3494.4	3221.3	3321.5	3248.8	2400.3
42.5°	3899.0	3887.2	3879.4	3828.2	3840.1	3893.1	3804.7	3462.9	3578.9	3494.4	2577.1
45°	3922.6	3912.7	3906.9	3867.6	3879.4	3989.3	4054.1	3739.9	3836.2	3759.5	2759.8
47.5°	3873.4	3863.6	3899.0	3883.3	3912.7	4052.2	4213.2	4028.6	4103.2	4005.0	2969.9
50°	3637.7	3669.1	3769.4	3830.3	3893.1	4077.7	4364.5	4323.3	4427.4	4307.5	3205.6
52.5°	2995.4	3048.5	3394.1	3649.6	3830.3	4079.7	4464.7	4614.0	4773.1	4690.6	3443.3
55°	2372.8	2433.6	2724.4	3225.3	3649.6	4042.4	4509.8	4798.6	5099.1	4981.3	3690.7
57.5°	2013.3	2048.7	2162.6	2624.2	3266.5	3930.4	4602.2	4940.0	5417.3	5336.8	3944.2
60°	1697.1	1702.9	1822.8	2113.5	2712.6	3659.4	4657.2	5048.1	5782.7	5676.6	4225.1
62.5°	1290.5	1335.6	1457.5	1687.3	2168.5	3205.6	4676.9	5158.1	6187.3	6102.9	4553.1
65°	807.3	836.8	978.2	1276.8	1712.8	2606.5	4452.9	5268.0	6572.3	6507.5	4881.1
67.5°	434.1	457.7	559.8	779.8	1229.6	2036.9	3914.7	5234.7	6947.5	6896.4	5181.7
70°	300.5	302.5	326.0	438.0	746.4	1486.9	3182.0	4955.8	7163.5	7085.0	5299.5
72.5°	249.5	253.4	265.2	290.7	400.7	915.3	2306.0	4417.5	7022.1	6914.0	5050.0
75°	212.1	214.1	225.9	239.6	271.1	483.2	1467.3	3641.7	6295.3	6187.3	4258.4
77.5°	174.8	178.8	188.5	206.2	225.9	276.9	764.1	2832.4	4861.5	4729.9	2803.0
80°	123.7	125.7	137.5	157.1	184.6	194.5	294.6	1697.1	2530.0	2323.7	1068.6
82.5°	72.7	76.6	92.3	108.1	135.5	115.9	137.5	644.3	711.0	638.4	222.0
85°	17.7	21.6	31.4	43.2	55.0	39.3	60.9	125.7	147.3	135.5	41.3
87.5°	2.0	2.0	2.0	2.0	3.9	5.9	9.8	9.8	9.8	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°	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1060.7	1041.1	999.8	962.5	935.0	911.4	901.5	879.9	876.0	868.2	870.1
5°	1070.5	1027.3	954.6	901.5	874.1	852.5	840.7	838.7	840.7	838.7	840.7
7.5°	1094.1	1031.2	938.9	879.9	860.4	850.5	846.6	846.6	852.5	850.5	848.5
10°	1127.4	1046.9	933.0	878.0	866.2	862.3	858.4	860.4	862.3	866.2	852.5
12.5°	1174.6	1066.6	929.1	879.9	866.2	860.4	854.4	854.4	858.4	850.5	854.4
15°	1211.9	1092.1	933.0	874.1	858.4	848.5	838.7	834.8	830.8	828.9	826.9
17.5°	1264.9	1119.6	929.1	868.2	842.7	823.0	803.4	795.5	791.6	787.6	785.7
20°	1325.9	1137.3	923.2	852.5	815.2	785.7	764.1	748.4	734.6	732.7	726.8
22.5°	1376.9	1166.7	907.5	826.9	779.8	742.4	711.0	695.3	677.7	667.8	661.9
25°	1451.5	1198.1	883.9	789.7	732.7	697.3	654.1	634.5	614.8	601.0	601.0
27.5°	1500.7	1208.0	858.4	748.4	685.5	630.5	591.2	565.7	548.0	538.2	538.2
30°	1569.4	1231.6	817.1	707.1	630.5	581.4	532.3	508.7	493.1	477.3	471.4
32.5°	1640.2	1247.3	781.7	656.1	577.5	518.6	481.2	467.5	441.9	422.3	418.4
35°	1734.4	1270.9	736.6	604.9	520.5	475.4	459.6	428.2	392.8	373.2	369.3
37.5°	1848.3	1296.4	685.5	548.0	473.4	447.9	440.0	388.9	361.4	353.5	353.5
40°	1978.0	1316.1	630.5	495.0	424.3	432.1	412.5	365.3	347.7	343.7	341.8
42.5°	2115.5	1333.7	579.4	440.0	394.8	408.6	385.0	357.5	341.8	337.9	333.9
45°	2264.7	1337.7	528.4	398.7	369.3	375.1	365.3	347.7	333.9	332.0	330.0
47.5°	2427.8	1341.6	473.4	361.4	353.5	343.7	349.6	333.9	326.0	324.1	322.1
50°	2628.1	1331.7	422.3	337.9	341.8	324.1	332.0	322.1	320.2	316.3	312.3
52.5°	2804.9	1300.3	383.0	326.0	333.9	320.2	318.2	314.3	314.3	306.4	302.5
55°	2973.8	1257.1	357.5	320.2	324.1	314.3	312.3	308.3	306.4	296.6	294.6
57.5°	3132.9	1194.2	341.8	322.1	320.2	310.4	310.4	304.4	294.6	290.7	286.8
60°	3347.0	1141.2	335.9	326.0	316.3	308.3	308.3	298.6	288.8	282.8	280.9
62.5°	3547.4	1084.2	333.9	333.9	318.2	306.4	304.4	294.6	280.9	278.9	275.0
65°	3751.7	1013.5	332.0	343.7	322.1	306.4	300.5	286.8	271.1	271.1	267.2
67.5°	3794.9	925.1	318.2	345.7	326.0	304.4	292.7	275.0	257.3	261.2	253.4
70°	3651.5	773.9	288.8	332.0	335.9	304.4	278.9	257.3	235.7	253.4	237.6
72.5°	3219.4	610.9	241.6	290.7	328.0	304.4	263.2	233.7	206.2	204.3	190.5
75°	2541.7	410.5	186.6	227.9	298.6	304.4	239.6	204.3	174.8	159.1	159.1
77.5°	1538.0	271.1	143.4	161.1	239.6	280.9	210.2	159.1	131.6	121.8	117.8
80°	506.8	151.3	106.1	112.0	149.3	204.3	178.8	125.7	96.2	84.5	74.6
82.5°	137.5	80.6	68.7	62.9	74.6	151.3	141.4	82.5	59.0	49.1	37.3
85°	33.4	33.4	31.4	27.5	23.6	45.2	55.0	19.7	11.8	5.9	5.9
87.5°	5.9	5.9	5.9	5.9	3.9	2.0	2.0	0.0	2.0	2.0	2.0
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)