

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: P381382

Luminaire Tested: **PRV-PA2A-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES 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: 8623.2 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112
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

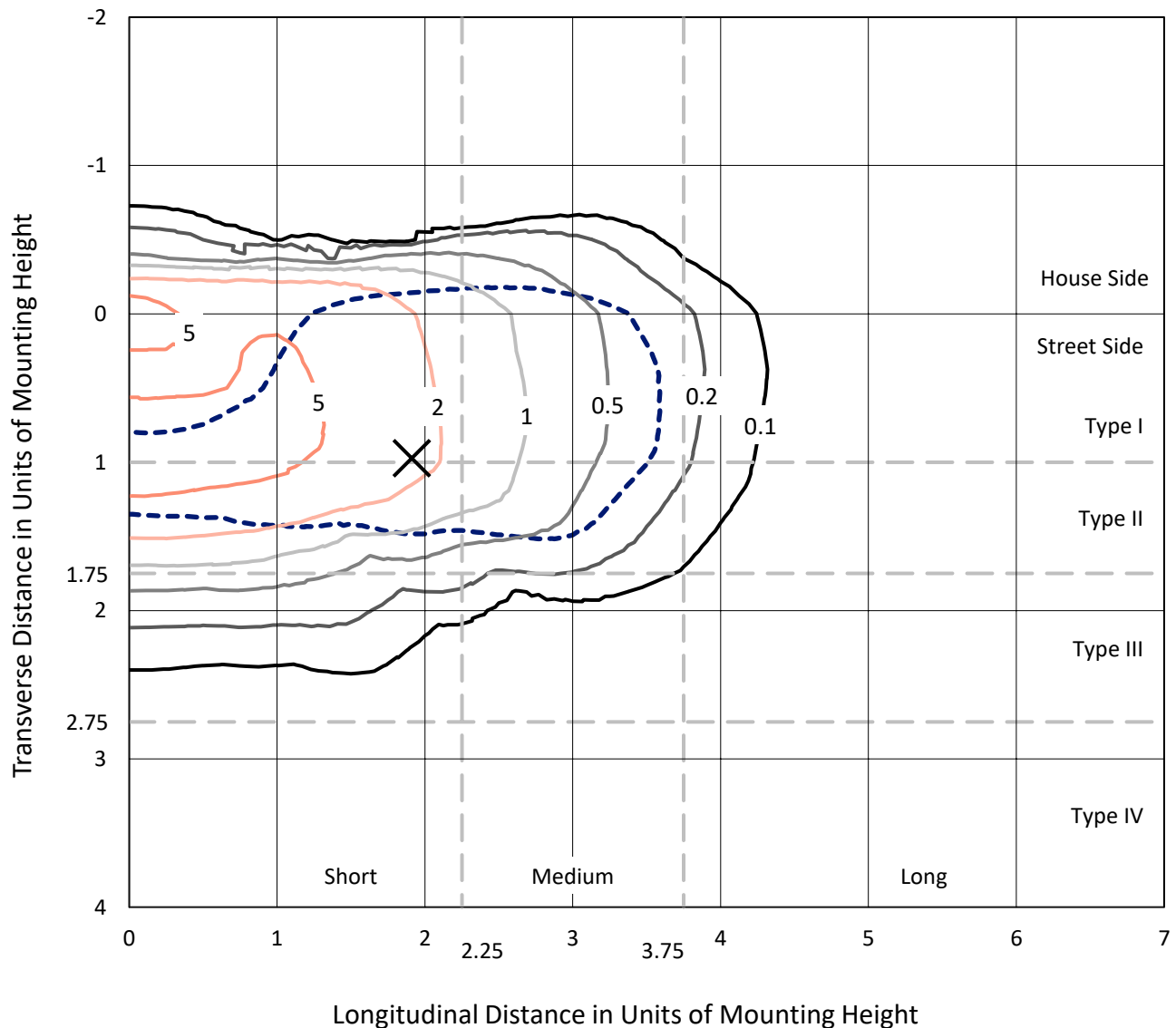


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

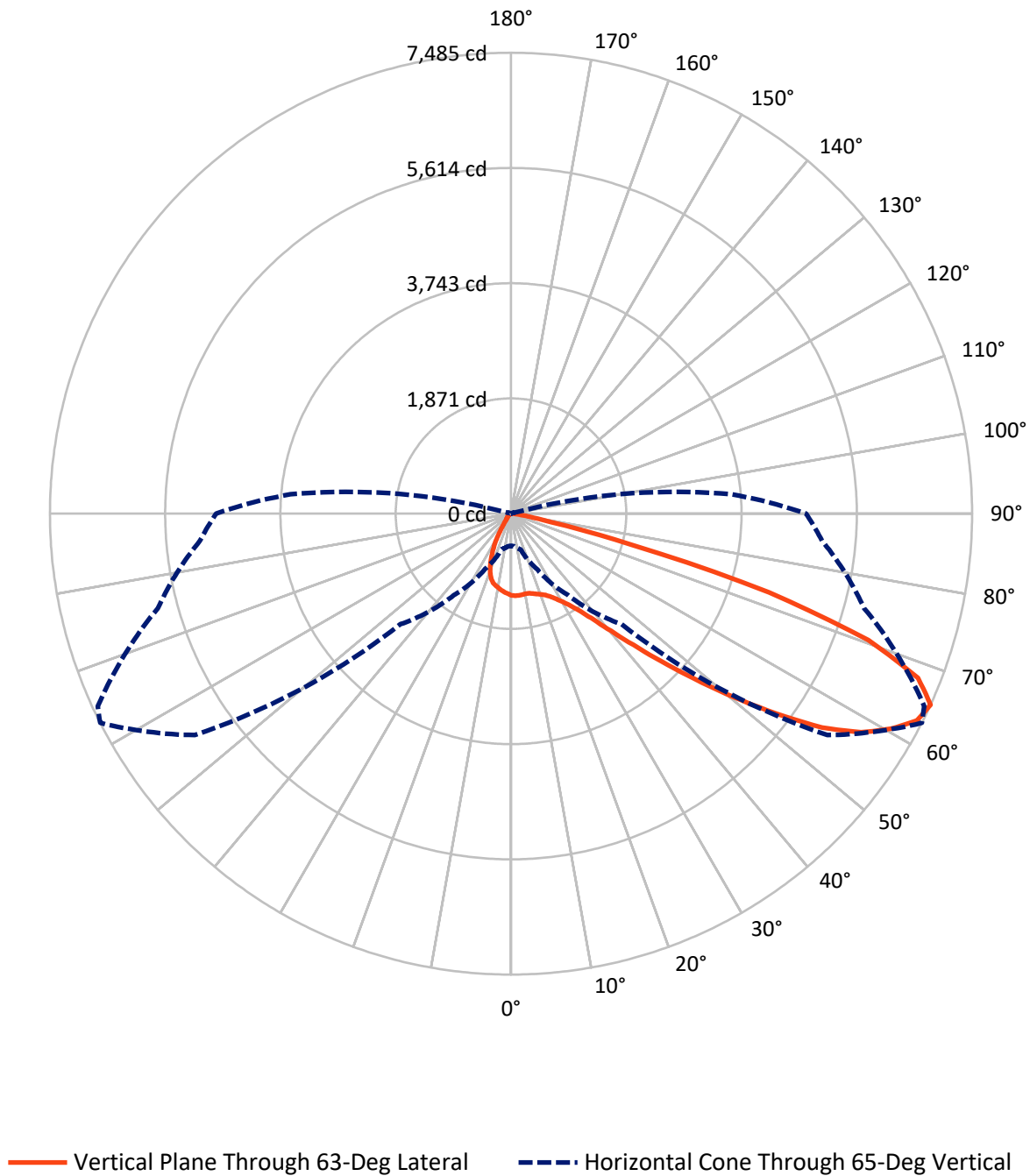


Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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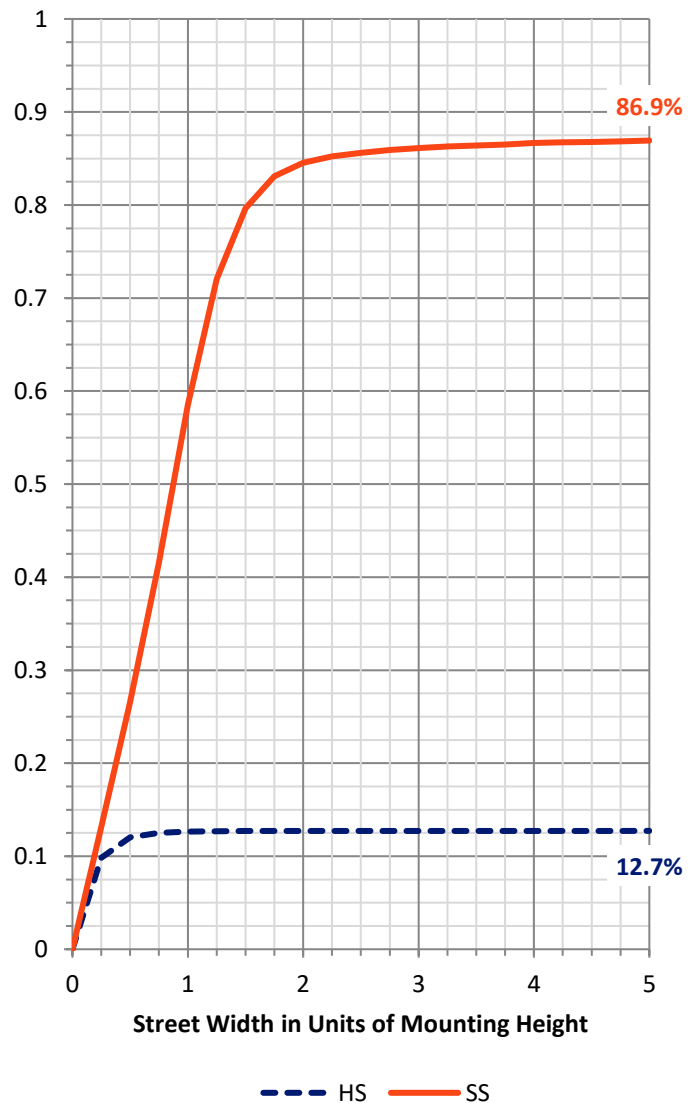
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.8	0.0	1109.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	7513.4	0.0	7513.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	8623.2	0.0	8623.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.4
10°-20°	299.0	3.5
20°-30°	443.2	5.1
30°-40°	822.9	9.5
40°-50°	1743.3	20.2
50°-60°	2410.5	28.0
60°-70°	1929.7	22.4
70°-80°	801.8	9.3
80°-90°	51.5	0.6
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°	8623.2	100.0
0°-180°	8623.2	100.0

Coefficient of Utilization



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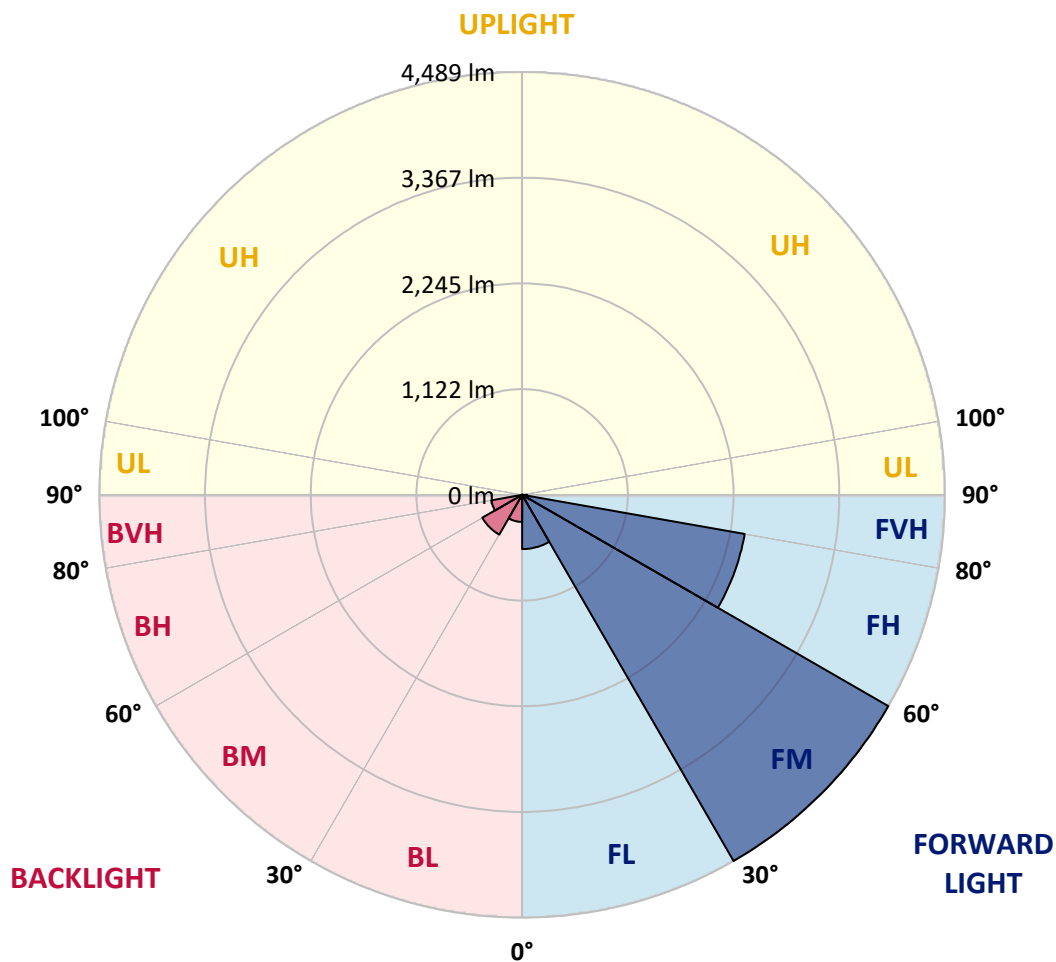
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.8	6.7			
FM	(30°-60°)	4489.3	52.1			
FH	(60°-80°)	2399.2	27.8			G2/5000
FVH	(80°-90°)	49.1	0.6			G1/100
BL	(0°-30°)	287.6	3.3	B1/500		
BM	(30°-60°)	487.5	5.7	B1/1000		
BH	(60°-80°)	332.3	3.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4
2.5°	1351.2	1347.9	1344.6	1343.1	1343.1	1341.4	1334.9	1333.3	1330.0	1326.8	1323.5
5°	1338.1	1333.3	1331.6	1333.3	1334.9	1338.1	1334.9	1334.9	1331.6	1328.4	1321.9
7.5°	1305.7	1302.4	1304.0	1308.9	1310.5	1321.9	1323.5	1328.4	1328.4	1325.1	1320.3
10°	1266.6	1264.9	1264.9	1273.1	1281.2	1297.5	1308.9	1321.9	1323.5	1323.5	1315.4
12.5°	1237.2	1235.6	1240.5	1250.3	1266.6	1287.7	1307.2	1326.8	1330.0	1331.6	1318.7
15°	1219.4	1219.4	1225.9	1245.4	1268.1	1297.5	1320.3	1346.3	1349.6	1347.9	1330.0
17.5°	1203.1	1204.6	1217.7	1250.3	1276.3	1315.4	1343.1	1372.4	1374.0	1372.4	1343.1
20°	1196.6	1199.8	1219.4	1261.6	1290.9	1334.9	1370.7	1400.0	1401.6	1395.1	1356.1
22.5°	1214.4	1216.1	1240.5	1286.1	1313.7	1362.6	1408.1	1435.9	1437.5	1427.7	1375.7
25°	1276.3	1276.3	1297.5	1336.6	1360.9	1409.8	1458.7	1491.2	1491.2	1479.8	1419.6
27.5°	1421.2	1408.1	1403.3	1414.7	1422.8	1474.9	1527.0	1567.7	1566.1	1549.8	1476.6
30°	1701.2	1668.7	1616.6	1557.9	1528.7	1564.4	1613.3	1665.4	1663.8	1637.7	1546.6
32.5°	2171.7	2124.4	2000.7	1846.1	1720.7	1680.0	1725.7	1782.6	1784.2	1753.3	1658.9
35°	2831.0	2756.1	2534.7	2319.8	2033.3	1878.7	1891.6	1953.5	1973.1	1956.8	1847.7
37.5°	3465.9	3397.5	3185.9	2888.0	2498.9	2183.1	2127.7	2181.4	2204.2	2204.2	2088.7
40°	4105.7	4026.0	3838.7	3539.2	3128.9	2658.4	2459.8	2503.8	2528.2	2533.1	2381.7
42.5°	4618.5	4566.4	4423.2	4190.3	3806.2	3491.9	2938.4	2914.0	2936.8	2918.9	2721.9
45°	4973.4	4932.7	4833.4	4745.4	4558.2	4400.4	3578.2	3413.8	3428.4	3366.6	3104.5
47.5°	5046.7	5001.0	4979.9	5101.9	5235.5	5274.5	4364.5	4008.0	3993.4	3856.6	3501.7
50°	4727.6	4732.5	4810.6	5159.0	5715.7	6067.4	5276.2	4678.7	4625.0	4320.6	3871.2
52.5°	4038.9	4117.1	4314.1	4879.0	5862.2	6643.7	6187.8	5390.2	5307.1	4771.5	4148.0
55°	3159.9	3260.8	3584.7	4234.3	5556.2	6900.9	6956.3	6129.2	5940.4	5110.1	4362.9
57.5°	2349.2	2380.1	2757.7	3350.3	4831.7	6648.5	7350.2	6699.0	6456.5	5380.4	4576.2
60°	1463.5	1483.1	1881.9	2551.0	3659.7	5715.7	7350.2	7091.3	6860.2	5623.0	4771.5
62.5°	910.0	916.5	1066.3	1748.4	2487.5	4239.2	7045.7	7395.7	7210.2	5797.1	4939.2
65°	524.2	530.7	600.7	988.1	1618.1	2537.9	6267.6	7485.3	7402.2	5935.5	5069.5
67.5°	382.6	385.9	413.5	555.1	1058.1	1304.0	4708.0	7125.5	7229.8	6003.9	5066.2
70°	332.1	337.0	372.8	433.0	763.5	800.9	2396.4	6153.7	6445.0	5906.2	4914.8
72.5°	255.6	262.1	315.8	407.0	560.0	576.3	867.7	4379.2	4820.4	5295.7	4499.7
75°	175.8	182.4	236.1	335.4	462.4	431.4	477.0	2015.4	2542.9	3552.2	3425.2
77.5°	112.4	113.9	148.1	244.2	398.9	306.1	327.2	657.7	923.1	1606.8	1616.6
80°	74.9	76.5	91.1	157.9	273.5	283.3	201.9	304.4	333.7	468.9	325.6
82.5°	45.6	45.6	61.9	99.3	166.1	234.4	131.9	159.6	170.9	180.7	84.6
85°	17.9	17.9	37.4	65.1	104.2	109.1	83.0	92.8	97.6	105.8	39.1
87.5°	4.9	4.9	21.1	35.8	45.6	50.5	50.5	45.6	48.9	60.2	19.5
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°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4
2.5°	1321.9	1317.0	1310.5	1304.0	1297.5	1292.6	1287.7	1287.7	1284.4	1279.6	1276.3
5°	1318.7	1310.5	1295.9	1284.4	1266.6	1253.5	1243.7	1235.6	1230.7	1219.4	1217.7
7.5°	1313.7	1304.0	1282.8	1260.0	1230.7	1207.9	1185.1	1168.9	1152.6	1139.6	1136.3
10°	1305.7	1294.2	1263.3	1230.7	1190.0	1147.7	1094.0	1032.2	975.1	942.6	932.8
12.5°	1305.7	1290.9	1250.3	1206.3	1147.7	1043.5	906.8	770.0	664.2	617.0	604.0
15°	1313.7	1294.2	1240.5	1180.3	1071.2	859.6	638.1	457.4	341.9	306.1	297.9
17.5°	1321.9	1294.2	1225.9	1144.4	931.2	623.5	363.0	240.9	203.5	195.4	195.4
20°	1325.1	1290.9	1206.3	1077.7	744.0	387.4	216.5	180.7	166.1	161.1	161.1
22.5°	1338.1	1292.6	1191.6	981.6	540.5	227.9	170.9	151.4	136.7	131.9	131.9
25°	1370.7	1312.2	1194.9	859.6	346.8	172.6	144.9	125.4	110.7	104.2	104.2
27.5°	1422.8	1356.1	1212.8	717.9	218.1	148.1	122.1	100.9	89.6	83.0	83.0
30°	1481.4	1404.9	1220.9	555.1	162.8	125.4	99.3	79.8	71.6	66.7	65.1
32.5°	1584.0	1489.6	1214.4	380.9	133.5	105.8	79.8	63.5	57.0	55.4	55.4
35°	1748.4	1637.7	1201.4	239.3	110.7	84.6	63.5	52.1	47.2	45.6	43.9
37.5°	1971.4	1854.2	1162.4	157.9	91.1	66.7	52.1	43.9	39.1	37.4	37.4
40°	2243.3	2101.7	1087.4	120.5	78.1	53.7	43.9	37.4	34.2	32.6	32.6
42.5°	2554.2	2376.8	968.6	104.2	65.1	45.6	37.4	30.9	29.3	27.6	27.6
45°	2894.5	2664.9	804.2	92.8	55.4	37.4	30.9	27.6	24.4	24.4	22.8
47.5°	3255.9	2954.7	618.6	81.4	47.2	32.6	27.6	22.8	21.1	19.5	19.5
50°	3604.3	3213.6	434.6	70.0	39.1	27.6	22.8	19.5	17.9	16.3	16.3
52.5°	3850.1	3369.9	307.7	60.2	32.6	24.4	17.9	14.6	13.0	13.0	13.0
55°	4047.1	3467.5	214.9	50.5	27.6	21.1	14.6	11.4	11.4	9.8	9.8
57.5°	4232.7	3531.0	157.9	42.4	22.8	16.3	11.4	8.1	8.1	6.5	6.5
60°	4424.7	3565.2	120.5	34.2	19.5	13.0	8.1	6.5	4.9	4.9	4.9
62.5°	4618.5	3586.4	92.8	27.6	16.3	9.8	6.5	4.9	3.3	1.6	1.6
65°	4787.8	3592.9	71.6	21.1	13.0	6.5	4.9	1.6	0.0	0.0	0.0
67.5°	4838.2	3518.0	55.4	16.3	9.8	4.9	3.3	0.0	0.0	0.0	0.0
70°	4701.5	3319.4	42.4	13.0	8.1	3.3	1.6	0.0	0.0	0.0	0.0
72.5°	4172.5	2783.8	32.6	8.1	6.5	3.3	1.6	0.0	0.0	0.0	0.0
75°	2985.7	1484.7	22.8	6.5	4.9	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	1374.0	574.6	16.3	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
80°	268.6	143.3	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.9	24.4	3.3	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	8.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	3.3	1.6	0.0	0.0	0.0	0.0	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)