

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: P381318

Luminaire Tested: **PRV-PA2A-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8822.8 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
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

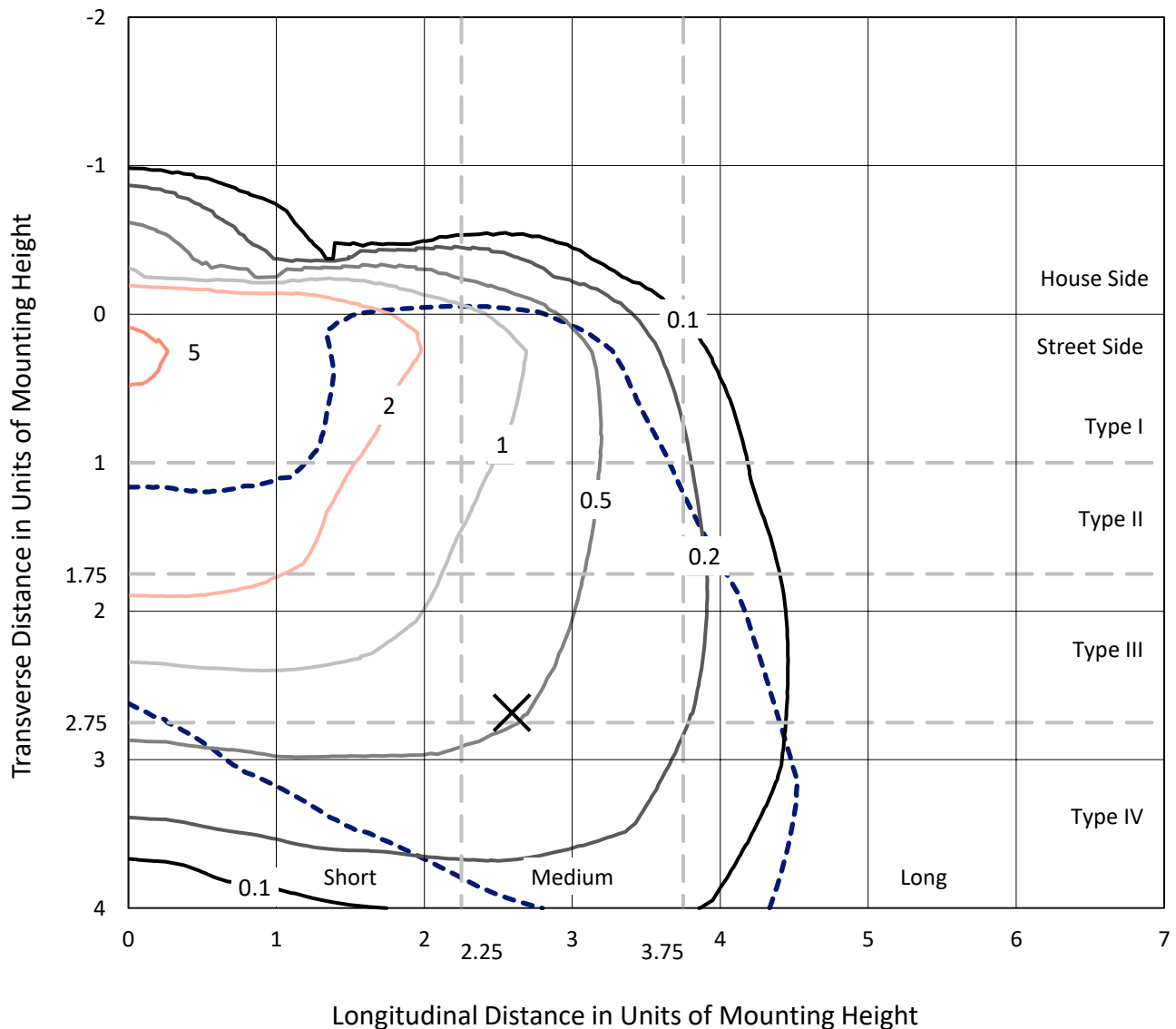


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

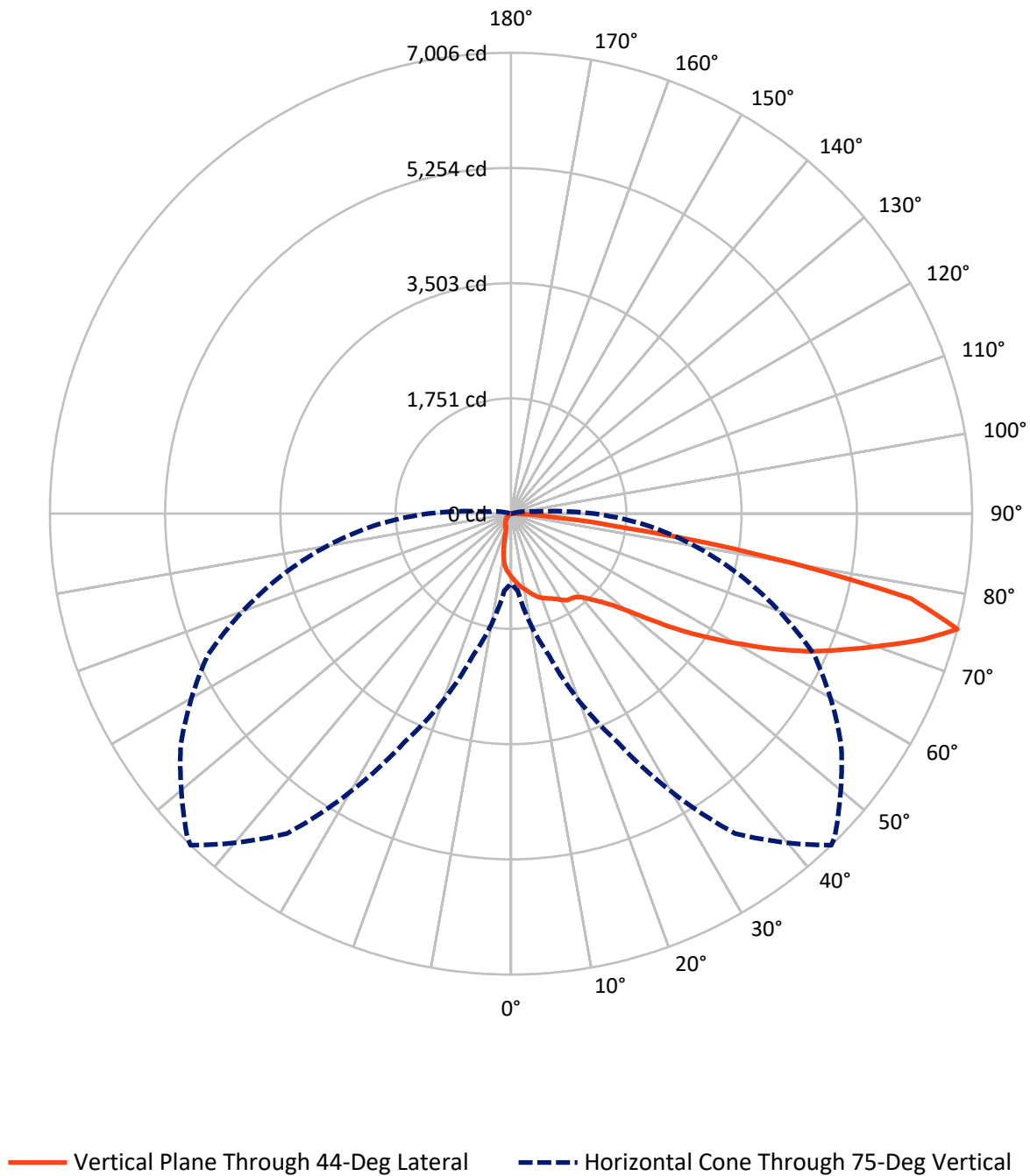


Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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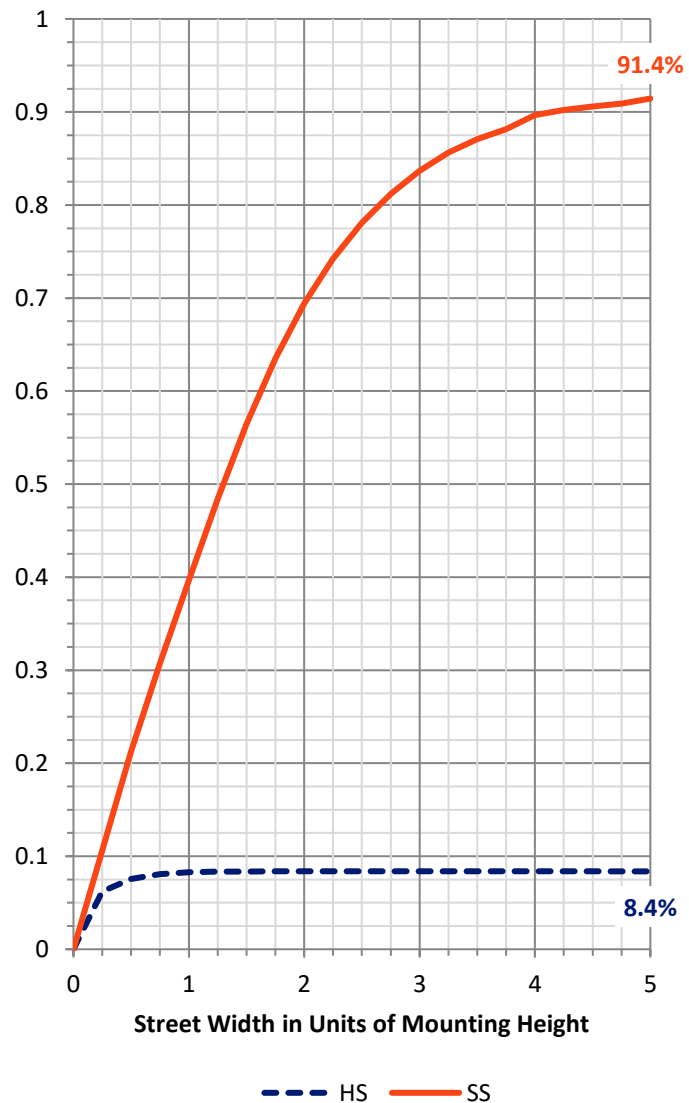
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.0	0.0	744.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8078.8	0.0	8078.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	8822.8	0.0	8822.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.0
10°-20°	253.8	2.9
20°-30°	418.8	4.7
30°-40°	607.9	6.9
40°-50°	988.1	11.2
50°-60°	1741.9	19.7
60°-70°	2503.5	28.4
70°-80°	2004.7	22.7
80°-90°	213.6	2.4
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°	8822.8	100.0
0°-180°	8822.8	100.0

Coefficient of Utilization



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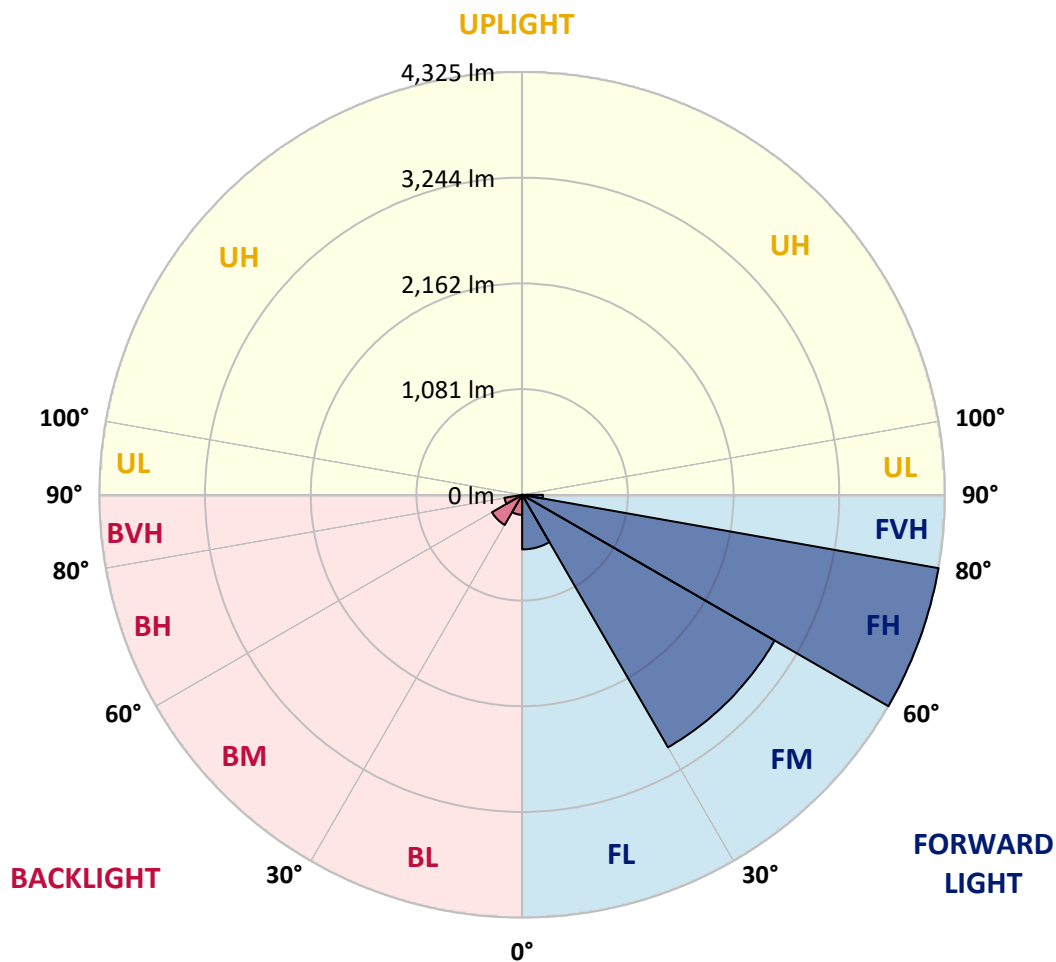
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.7	6.3			
FM	(30°-60°)	2982.2	33.8			
FH	(60°-80°)	4324.8	49.0			G2/5000
FVH	(80°-90°)	213.0	2.4			G2/225
BL	(0°-30°)	204.4	2.3	B1/500		
BM	(30°-60°)	355.7	4.0	B1/1000		
BH	(60°-80°)	183.4	2.1	B1/500		G1/500
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3
2.5°	1046.6	1045.0	1040.1	1031.9	1023.9	1015.7	1014.1	1001.0	986.3	975.0	965.2
5°	1139.3	1137.8	1129.6	1111.7	1093.8	1072.6	1071.0	1040.1	1012.4	981.5	955.4
7.5°	1235.4	1232.1	1217.5	1189.8	1158.9	1126.3	1123.1	1077.6	1036.8	996.1	958.7
10°	1310.3	1307.1	1285.8	1253.3	1211.0	1170.3	1165.4	1118.2	1077.6	1025.4	975.0
12.5°	1383.6	1377.0	1349.3	1313.6	1261.5	1222.4	1217.5	1168.7	1119.8	1066.1	1004.3
15°	1451.9	1443.8	1417.7	1372.1	1316.8	1279.3	1276.1	1224.0	1173.6	1111.7	1043.3
17.5°	1499.1	1495.8	1464.9	1414.5	1360.8	1329.8	1326.6	1272.8	1222.4	1157.3	1084.1
20°	1523.5	1523.5	1494.2	1438.8	1390.1	1368.9	1364.0	1313.6	1264.7	1202.8	1126.3
22.5°	1528.4	1533.3	1510.5	1450.3	1414.5	1396.6	1393.3	1349.3	1302.1	1245.2	1173.6
25°	1538.1	1538.1	1526.8	1461.6	1435.6	1430.7	1429.1	1390.1	1347.7	1290.8	1220.8
27.5°	1549.6	1549.6	1541.4	1477.9	1468.2	1466.6	1464.9	1447.0	1412.8	1346.1	1276.1
30°	1578.8	1580.5	1574.0	1510.5	1504.0	1521.9	1525.1	1515.3	1473.1	1390.1	1333.1
32.5°	1652.1	1637.5	1619.6	1533.3	1544.7	1567.5	1569.1	1549.6	1504.0	1437.3	1401.4
35°	1836.1	1749.8	1668.3	1552.8	1557.7	1580.5	1583.8	1582.1	1554.4	1497.5	1479.6
37.5°	2006.9	1884.8	1769.3	1598.4	1582.1	1606.6	1613.1	1640.7	1619.6	1580.5	1585.3
40°	2106.2	2059.1	1977.6	1723.7	1630.9	1668.3	1674.9	1717.2	1709.1	1692.8	1723.7
42.5°	2412.2	2415.5	2327.6	1910.9	1720.5	1780.7	1788.8	1823.0	1834.4	1842.6	1917.4
45°	2767.0	2778.5	2757.3	2247.8	1889.8	1909.3	1920.7	1966.3	2008.6	2060.6	2197.4
47.5°	3193.5	3183.8	3105.6	2659.6	2184.3	2075.3	2083.4	2171.3	2244.5	2358.5	2553.8
50°	3571.1	3595.5	3447.5	3043.8	2599.4	2337.3	2329.2	2415.5	2547.3	2706.8	2952.6
52.5°	3952.0	3916.2	3716.0	3424.6	3091.0	2693.8	2669.4	2716.6	2902.2	3091.0	3343.3
55°	4053.0	4056.2	3987.8	3841.3	3501.2	3126.8	3086.1	3082.8	3314.0	3442.5	3753.5
57.5°	4251.5	4259.7	4276.0	4305.2	4144.1	3559.8	3517.4	3471.8	3696.5	3771.3	4165.2
60°	4453.3	4463.1	4562.4	4720.3	4612.9	4026.9	3981.3	3873.9	3999.3	4100.1	4598.2
62.5°	4427.3	4495.7	4783.7	5097.9	5084.9	4539.6	4482.7	4223.8	4303.6	4391.5	4995.4
65°	3997.6	4070.8	4718.7	5202.1	5558.5	5045.8	4953.0	4585.2	4590.1	4695.9	5377.9
67.5°	3613.5	3693.2	4311.7	5158.1	5871.1	5499.9	5403.9	4948.2	4871.7	5047.5	5582.9
70°	3392.1	3471.8	3987.8	5021.4	5958.9	6002.9	5919.9	5363.2	5207.0	5368.1	5353.4
72.5°	2654.8	2780.1	3574.4	4761.0	6053.4	6541.7	6476.6	5888.9	5491.8	5032.8	4075.7
75°	1058.0	1173.6	2231.6	3831.5	5934.5	7005.6	6955.1	6124.9	5083.2	3593.9	2086.7
77.5°	319.0	341.8	620.1	1894.6	4350.8	6211.2	6194.9	5150.0	3597.2	1668.3	569.7
80°	105.8	117.2	190.4	522.5	1985.8	3880.4	3953.7	3281.4	1634.2	382.5	115.6
82.5°	43.9	48.9	96.0	210.0	703.1	1671.6	1647.2	1469.8	569.7	237.6	42.3
85°	11.4	14.6	43.9	120.4	257.1	576.2	605.5	493.2	322.3	196.9	13.0
87.5°	0.0	0.0	21.1	48.9	115.6	174.1	182.3	149.7	182.3	148.1	6.5
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°	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3	960.3
2.5°	957.1	948.9	934.3	924.5	911.5	908.3	901.7	893.6	892.0	883.9	885.5
5°	940.8	927.8	901.7	883.9	862.7	856.1	844.8	836.6	830.1	818.7	820.3
7.5°	937.6	918.0	882.2	848.0	813.9	789.4	755.3	727.6	704.8	680.3	685.3
10°	948.9	924.5	874.1	826.8	765.0	686.8	597.4	538.8	509.5	480.1	483.4
12.5°	971.7	942.4	877.4	805.7	680.3	546.9	423.2	343.4	322.3	309.3	310.9
15°	1005.9	970.1	887.1	765.0	566.4	395.5	281.6	247.4	255.6	260.4	260.4
17.5°	1041.7	1001.0	895.2	691.8	437.9	276.7	229.5	226.3	237.6	249.1	249.1
20°	1085.6	1033.6	896.8	599.0	315.8	224.6	216.5	216.5	224.6	237.6	237.6
22.5°	1128.0	1069.4	882.2	493.2	240.9	208.4	208.4	208.4	213.2	226.3	227.9
25°	1178.4	1113.3	851.3	380.9	206.7	198.6	198.6	200.2	203.4	214.9	216.5
27.5°	1232.1	1158.9	799.2	278.4	188.8	187.2	188.8	190.4	192.1	203.4	206.7
30°	1294.0	1209.3	732.5	208.4	172.6	172.6	177.4	180.6	180.6	190.4	193.7
32.5°	1365.6	1276.1	652.7	172.6	156.3	154.6	162.8	167.6	167.6	175.8	179.1
35°	1455.1	1344.5	556.6	153.0	143.2	140.0	143.2	151.4	154.6	161.1	162.8
37.5°	1574.0	1425.8	454.1	141.6	133.5	126.9	126.9	128.6	135.1	141.6	143.2
40°	1725.3	1515.3	353.2	133.5	123.7	117.2	112.3	110.7	109.1	113.9	117.2
42.5°	1915.8	1616.3	263.7	125.4	115.6	105.8	99.3	92.8	84.6	83.0	84.6
45°	2159.9	1740.0	195.4	118.9	110.7	96.0	84.6	73.2	58.6	53.7	55.4
47.5°	2448.0	1868.6	153.0	112.3	107.4	84.6	70.0	50.4	35.8	32.6	34.2
50°	2754.0	1992.3	130.2	104.1	100.9	73.2	50.4	30.9	21.1	21.1	22.8
52.5°	3014.5	2062.3	118.9	97.6	91.1	60.2	32.6	17.9	13.0	13.0	14.6
55°	3266.8	2099.7	110.7	91.1	78.1	42.3	17.9	11.4	8.1	8.1	8.1
57.5°	3527.2	2116.0	100.9	83.0	61.9	26.1	9.8	6.5	4.9	4.9	4.9
60°	3758.3	2085.1	86.3	68.4	40.7	13.0	4.9	4.9	3.3	1.6	1.6
62.5°	3952.0	2026.5	60.2	48.9	24.4	6.5	3.3	1.6	0.0	0.0	0.0
65°	4070.8	1932.1	39.1	32.6	14.6	4.9	1.6	0.0	0.0	0.0	0.0
67.5°	4036.7	1754.6	24.4	21.1	6.5	3.3	1.6	0.0	0.0	0.0	0.0
70°	3642.8	1438.8	17.9	13.0	4.9	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2625.5	973.3	13.0	8.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1263.1	346.7	8.1	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	309.3	76.5	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.4	14.6	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.6	0.0	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)