

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: P210500

Luminaire Tested: **CLCSLED-86-SM-UNV-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28994)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: CLCSLED-86-SM-UNV-7050  
Description: Canopy Wall Pack  
Light Source: (1) 5000K CCT, 72 CRI LEDS  
CLU048-1812  
Ballast/Driver: MEAN WELL  
MW HLG-80H-54

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11279 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1.33' x H: 0.29')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G2

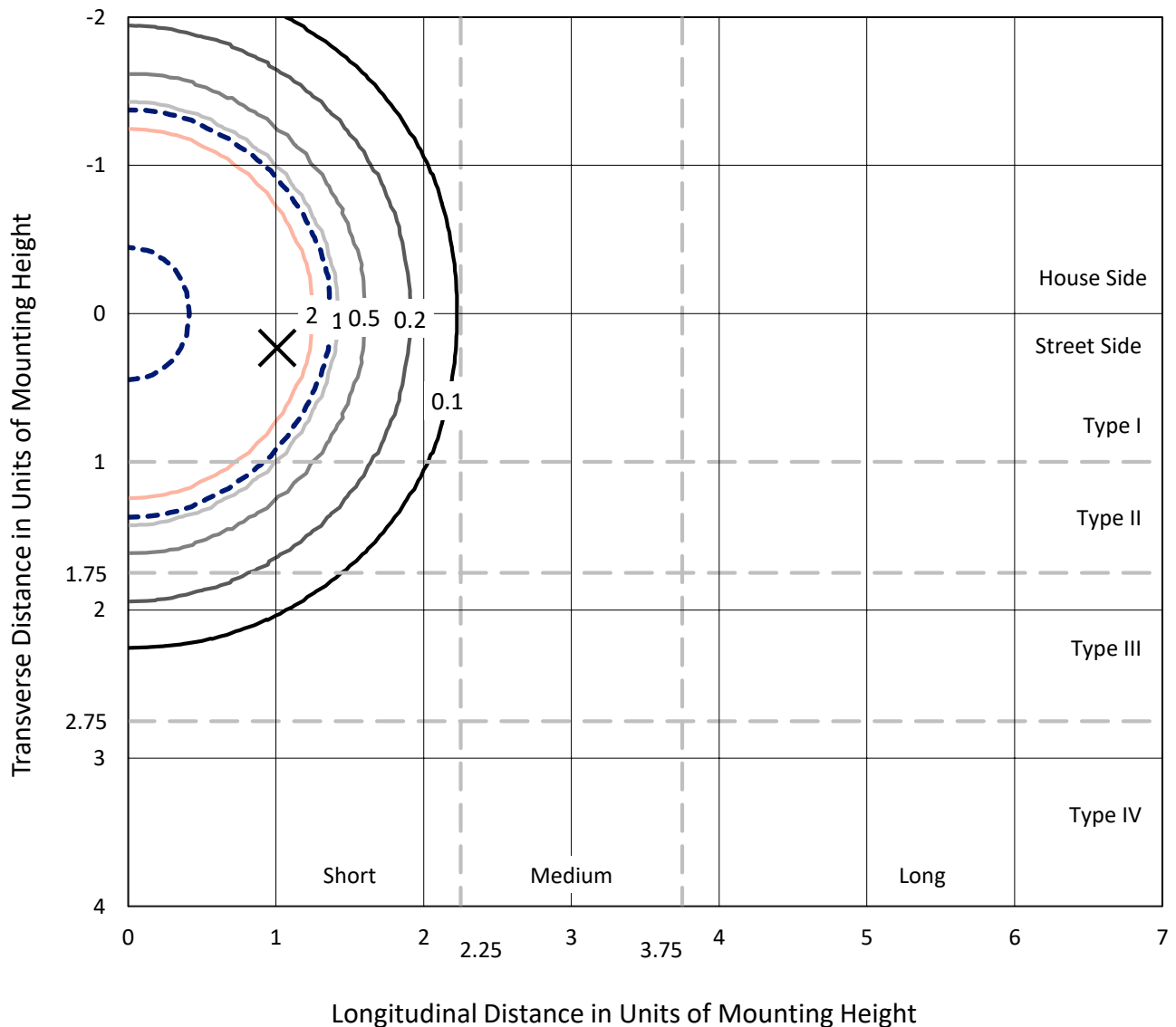
Input Watts (W): 92.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

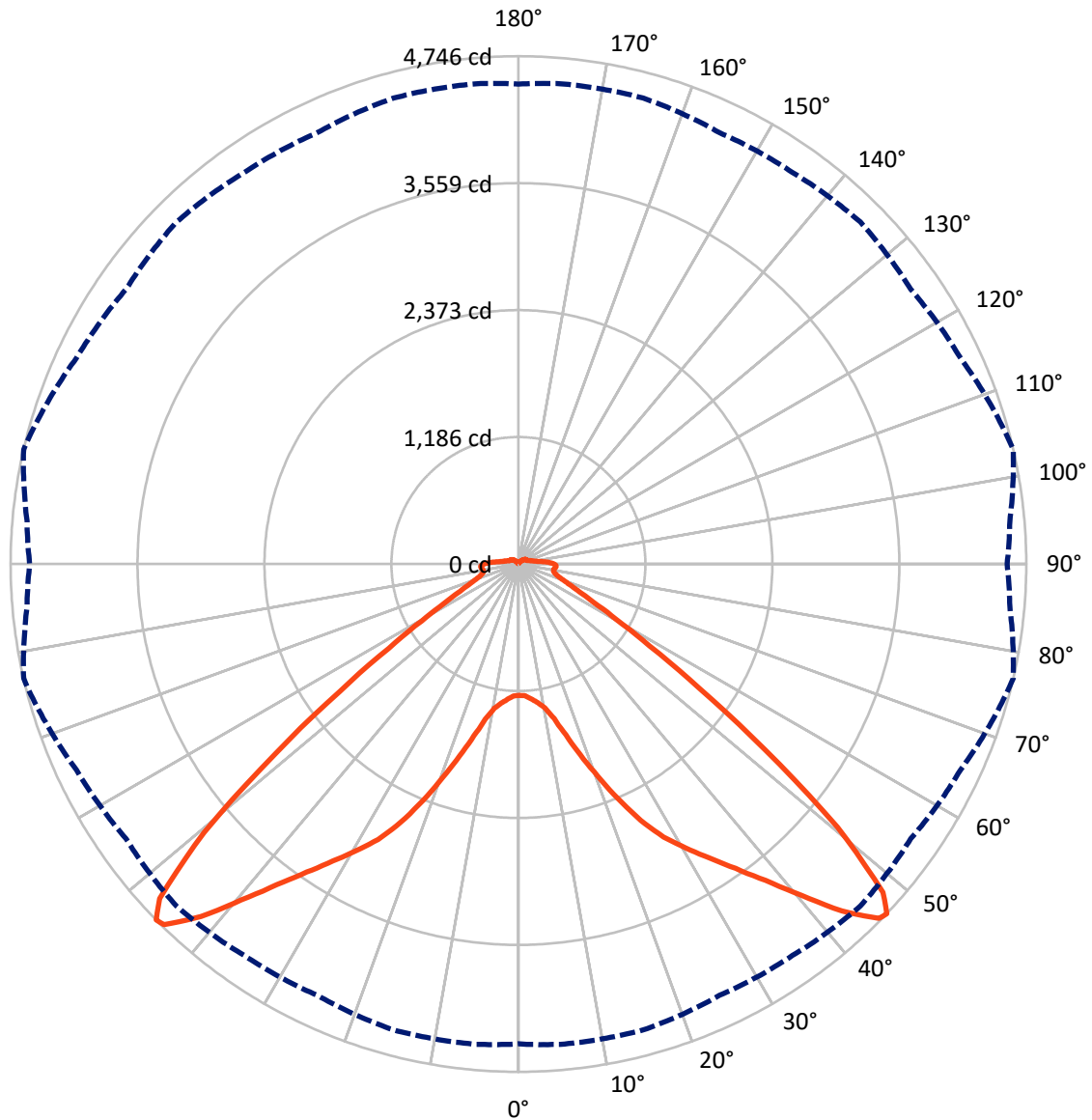
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 46-Deg Vertical

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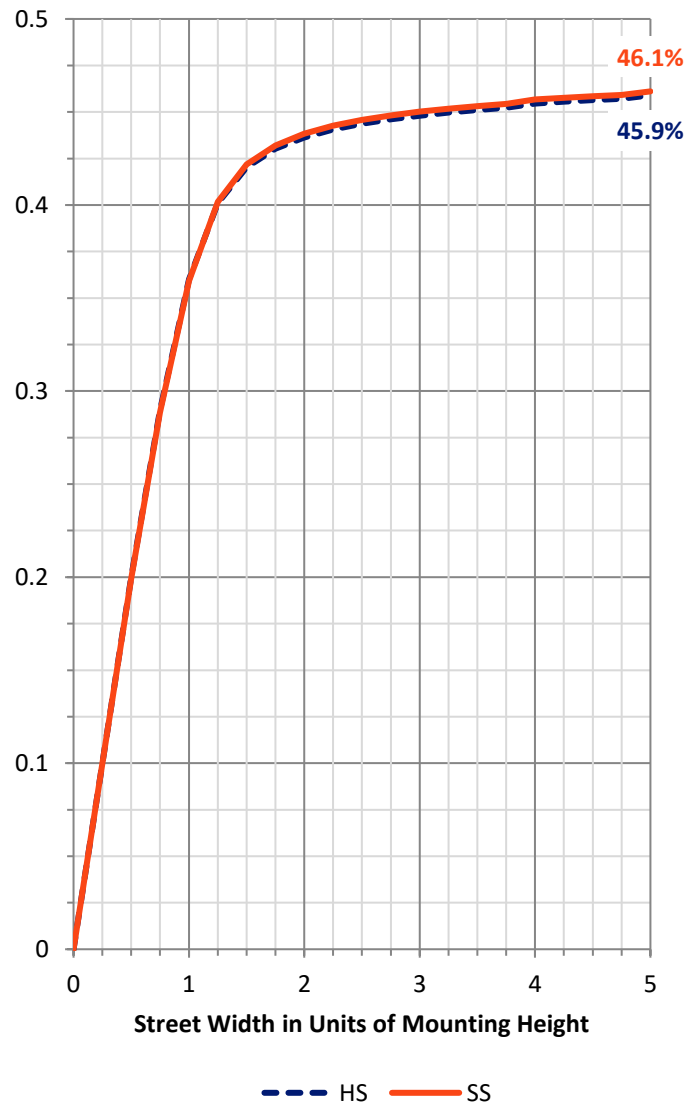
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5323.7	315.8	5639.5
	% Fixture	47.2	2.8	50.0
<b>Street Side</b>	Lumens	5323.7	315.8	5639.5
	% Fixture	47.2	2.8	50.0
<b>Total</b>	Lumens	10647.3	631.7	11279.0
	% Fixture	94.4	5.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	1.1
10°-20°	480.1	4.3
20°-30°	1179.0	10.5
30°-40°	2160.6	19.2
40°-50°	3307.3	29.3
50°-60°	1879.0	16.7
60°-70°	681.6	6.0
70°-80°	416.2	3.7
80°-90°	420.2	3.7
90°-100°	279.4	2.5
100°-110°	137.5	1.2
110°-120°	93.2	0.8
120°-130°	69.9	0.6
130°-140°	36.3	0.3
140°-150°	13.1	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10647.3	94.4
0°-180°	11279.0	100.0



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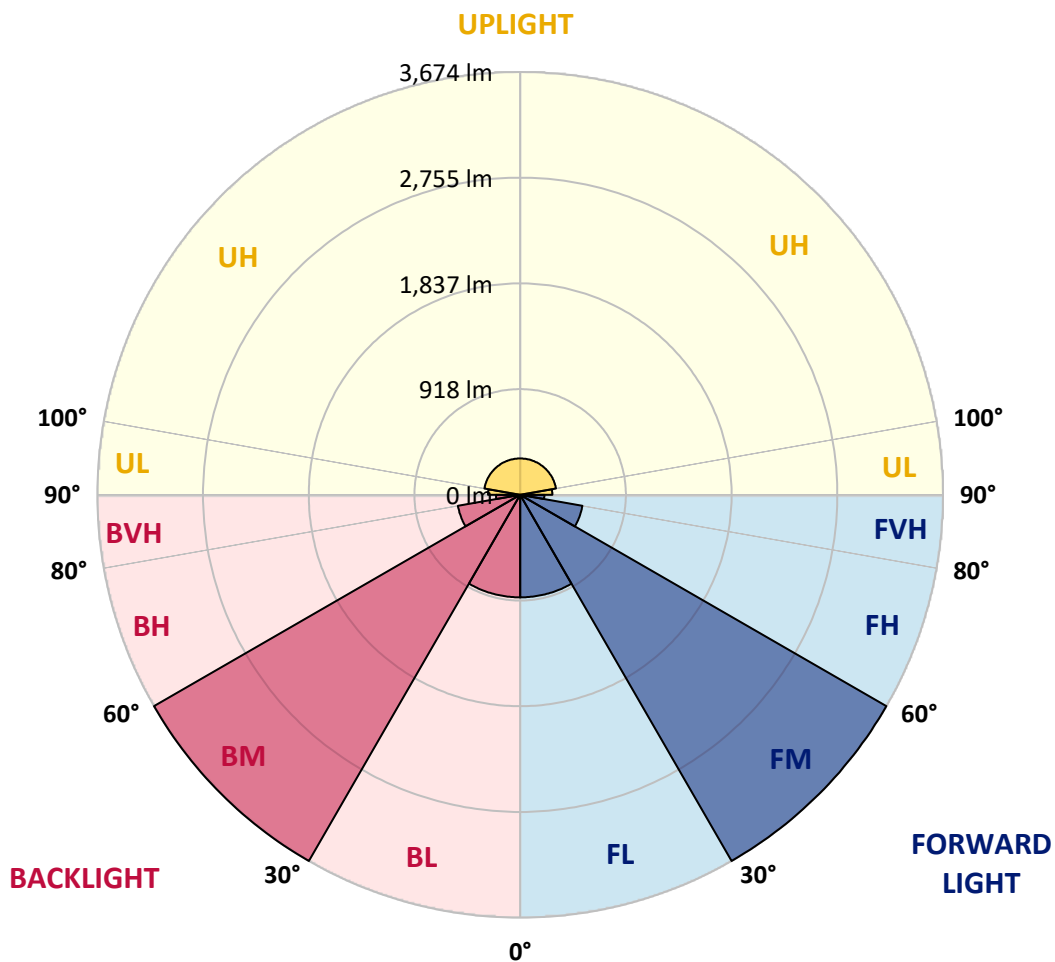
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.1	7.9			
FM (30°-60°)	3673.5	32.6			
FH (60°-80°)	548.9	4.9			G0/660
FVH (80°-90°)	210.1	1.9			G2/225
BL (0°-30°)	891.1	7.9	B2/1000		
BM (30°-60°)	3673.5	32.6	B3/5000		
BH (60°-80°)	548.9	4.9	B2/1000		G0/660
BVH (80°-90°)	210.1	1.9			G2/225
UL (90°-100°)	279.4	2.5		U3/500	
UH (100°-180°)	315.8	2.8		U3/500	

**BUG Rating: B3-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1233.9	1233.0	1233.0	1232.0	1233.0	1233.0	1234.9	1234.9	1234.9	1233.0	1236.8
5°	1259.0	1258.1	1258.1	1258.1	1259.0	1260.0	1263.9	1265.8	1266.8	1265.8	1269.6
7.5°	1293.8	1291.8	1291.8	1291.8	1293.8	1297.6	1302.4	1305.3	1309.2	1309.2	1312.1
10°	1341.0	1339.1	1338.1	1343.0	1343.9	1349.7	1358.4	1361.3	1365.2	1367.1	1370.0
12.5°	1436.6	1432.7	1433.7	1446.2	1454.9	1465.5	1477.1	1477.1	1478.0	1481.9	1484.8
15°	1586.1	1583.2	1588.0	1608.3	1626.6	1639.2	1654.6	1653.6	1652.7	1657.5	1661.3
17.5°	1781.0	1774.2	1783.9	1801.2	1830.2	1841.8	1859.1	1863.0	1866.8	1874.6	1875.5
20°	1995.2	1988.4	2001.9	2014.5	2040.5	2055.9	2080.1	2087.8	2101.3	2112.9	2113.8
22.5°	2231.5	2221.9	2235.4	2241.2	2260.5	2277.8	2306.8	2329.9	2356.9	2383.0	2380.1
25°	2468.9	2470.8	2472.7	2478.5	2493.0	2510.3	2535.4	2582.7	2622.3	2653.1	2649.3
27.5°	2680.2	2683.0	2684.0	2692.7	2706.2	2725.5	2751.5	2806.5	2847.1	2888.5	2876.0
30°	2876.0	2878.9	2869.2	2881.8	2902.0	2923.3	2950.3	3000.5	3035.2	3078.6	3054.5
32.5°	3086.3	3079.6	3071.8	3083.4	3112.4	3139.4	3163.5	3209.8	3230.1	3271.6	3232.0
35°	3320.8	3331.4	3317.9	3318.8	3362.2	3389.3	3404.7	3443.3	3458.7	3493.5	3438.5
37.5°	3599.6	3618.9	3611.2	3607.3	3654.6	3686.4	3682.6	3717.3	3730.8	3751.1	3689.3
40°	3959.4	3961.4	3938.2	3938.2	3986.5	4029.9	4022.2	4058.8	4064.6	4067.5	4001.9
42.5°	4305.8	4315.4	4298.1	4280.7	4324.1	4358.9	4377.2	4424.5	4446.7	4433.1	4354.0
45°	4491.0	4521.9	4525.8	4472.7	4499.7	4543.1	4523.8	4599.1	4715.8	4724.5	4604.9
46°	4484.3	4505.5	4507.4	4447.6	4466.0	4519.0	4475.6	4556.6	4715.8	4745.7	4609.7
47.5°	4353.1	4332.8	4336.7	4247.9	4260.5	4296.2	4260.5	4316.4	4532.5	4584.6	4450.5
50°	3679.7	3690.3	3671.0	3540.7	3535.9	3556.2	3548.4	3550.4	3773.2	3863.9	3728.9
52.5°	2843.2	2814.3	2798.8	2672.4	2666.6	2678.2	2677.3	2682.1	2793.0	2882.8	2794.0
55°	2013.5	2055.0	2029.9	1941.1	1931.5	1960.4	1924.7	1943.1	1985.5	2045.3	1966.2
57.5°	1466.5	1495.4	1469.4	1417.3	1407.6	1420.2	1406.6	1416.3	1410.5	1443.3	1391.2
60°	1100.8	1108.5	1088.3	1062.2	1047.7	1053.5	1052.6	1043.9	1036.2	1048.7	1024.6
62.5°	839.4	836.5	831.6	823.0	810.4	813.3	810.4	808.5	791.1	787.3	779.5
65°	655.1	653.2	660.9	662.8	655.1	659.9	653.2	652.2	631.0	625.2	616.5
67.5°	531.6	531.6	540.3	551.9	551.9	557.6	553.8	546.1	523.9	515.2	506.5
70°	447.7	448.6	459.2	474.7	481.4	487.2	481.4	469.8	447.7	439.0	427.4
72.5°	387.8	388.8	405.2	425.5	435.1	440.9	433.2	419.7	393.6	385.9	370.5
75°	347.3	350.2	370.5	396.5	408.1	412.9	406.2	390.7	361.8	354.1	335.7
77.5°	318.4	323.2	350.2	383.0	400.4	405.2	399.4	379.2	344.4	335.7	315.5
80°	304.9	310.7	344.4	386.9	410.0	415.8	410.0	384.9	340.6	331.9	306.8
82.5°	308.7	314.5	352.1	405.2	433.2	439.0	433.2	402.3	350.2	340.6	313.6
85°	321.3	327.1	364.7	422.6	454.4	459.2	451.5	417.7	361.8	352.1	326.1
87.5°	328.0	332.8	365.7	419.7	449.6	449.6	442.8	411.0	360.8	352.1	330.0
90°	311.6	315.5	340.6	384.0	409.1	405.2	397.5	370.5	332.8	325.1	309.7
92.5°	276.9	281.7	297.2	329.0	351.2	346.4	337.7	315.5	291.4	285.6	275.9
95°	219.0	222.9	234.4	259.5	279.8	277.9	269.2	250.8	231.5	229.6	220.9
97.5°	170.8	172.7	183.3	203.6	220.9	223.8	215.1	197.8	182.3	178.5	172.7
100°	140.9	142.8	153.4	172.7	184.3	188.1	179.4	167.9	151.5	148.6	141.8
102.5°	126.4	127.4	138.0	152.4	160.2	161.1	155.3	146.6	134.1	132.2	124.5
105°	113.8	114.8	122.5	134.1	140.9	140.9	136.0	129.3	117.7	116.7	110.9
107.5°	102.3	102.3	109.0	118.7	125.4	126.4	121.6	114.8	105.2	103.2	98.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	91.7	91.7	98.4	108.1	114.8	115.8	110.9	104.2	94.5	92.6	88.8
112.5°	84.9	84.9	90.7	100.3	107.1	109.0	105.2	97.4	87.8	85.9	83.0
115°	82.0	82.0	86.8	96.5	102.3	105.2	101.3	95.5	85.9	83.0	81.0
117.5°	81.0	81.0	83.0	92.6	99.4	102.3	99.4	93.6	83.9	82.0	82.0
120°	81.0	80.1	81.0	90.7	95.5	97.4	96.5	90.7	82.0	81.0	82.0
122.5°	79.1	80.1	78.1	85.9	90.7	91.7	89.7	85.9	79.1	79.1	81.0
125°	75.3	75.3	73.3	79.1	83.9	84.9	83.0	79.1	74.3	74.3	76.2
127.5°	69.5	69.5	66.6	70.4	75.3	76.2	75.3	71.4	67.5	68.5	70.4
130°	62.7	62.7	59.8	61.7	65.6	66.6	65.6	61.7	59.8	60.8	61.7
132.5°	55.0	55.0	53.1	53.1	56.9	57.9	56.0	51.1	51.1	52.1	53.1
135°	48.2	49.2	46.3	44.4	47.3	48.2	46.3	41.5	43.4	44.4	46.3
137.5°	42.5	42.5	40.5	36.7	38.6	39.6	37.6	33.8	37.6	38.6	39.6
140°	35.7	35.7	33.8	30.9	30.9	30.9	28.9	28.0	30.9	31.8	32.8
142.5°	29.9	29.9	28.9	25.1	23.2	24.1	21.2	22.2	25.1	26.0	27.0
145°	25.1	25.1	23.2	20.3	16.4	17.4	14.5	18.3	21.2	21.2	22.2
147.5°	20.3	20.3	19.3	16.4	11.6	10.6	10.6	14.5	17.4	17.4	18.3
150°	16.4	16.4	14.5	11.6	7.7	2.9	6.8	10.6	13.5	13.5	14.5
152.5°	11.6	11.6	10.6	7.7	3.9	1.0	3.9	7.7	9.6	10.6	10.6
155°	7.7	7.7	5.8	3.9	1.0	0.0	0.0	3.9	5.8	6.8	6.8
157.5°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°
0°	1227.2
2.5°	1235.9
5°	1269.6
7.5°	1310.2
10°	1367.1
12.5°	1481.9
15°	1659.4
17.5°	1874.6
20°	2113.8
22.5°	2375.3
25°	2651.2
27.5°	2879.9
30°	3054.5
32.5°	3229.1
35°	3428.8
37.5°	3672.9
40°	3979.7
42.5°	4335.7
45°	4566.3
46°	4567.3
47.5°	4397.5
50°	3672.9
52.5°	2750.6
55°	1960.4
57.5°	1381.6
60°	1012.1
62.5°	773.8
65°	611.7
67.5°	503.6
70°	423.5
72.5°	367.6
75°	331.9
77.5°	311.6
80°	302.9
82.5°	308.7
85°	321.3
87.5°	326.1
90°	306.8
92.5°	275.0
95°	220.9
97.5°	172.7
100°	141.8
102.5°	124.5
105°	110.9
107.5°	99.4



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**CANDELA DISTRIBUTION (continued):**

	90°
110°	89.7
112.5°	83.9
115°	81.0
117.5°	82.0
120°	82.0
122.5°	81.0
125°	77.2
127.5°	70.4
130°	62.7
132.5°	54.0
135°	46.3
137.5°	39.6
140°	32.8
142.5°	27.0
145°	22.2
147.5°	18.3
150°	14.5
152.5°	10.6
155°	6.8
157.5°	2.9
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)