

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: P210499

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210499  
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  
Description: Canopy Wall Pack  
Light Source: (1) 4000K CCT, 72 CRI LEDS  
CLU048-1812  
Ballast/Driver: MEAN WELL  
MW HLG-80H-54

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11494 lumens  
Efficiency: N/A  
Efficacy: 124.8 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

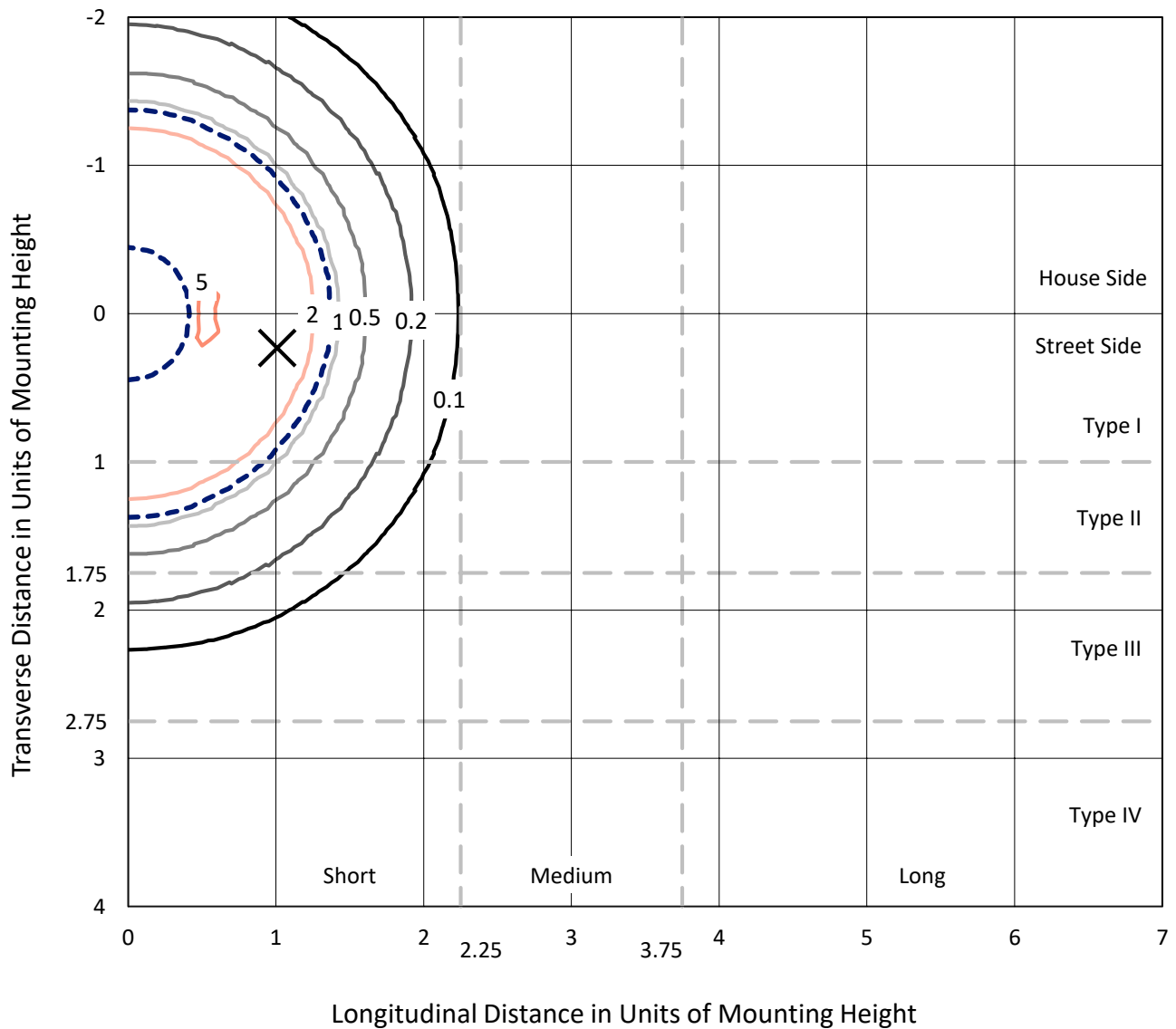


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### Iso-Footcandle Lines of Horizontal Illumination

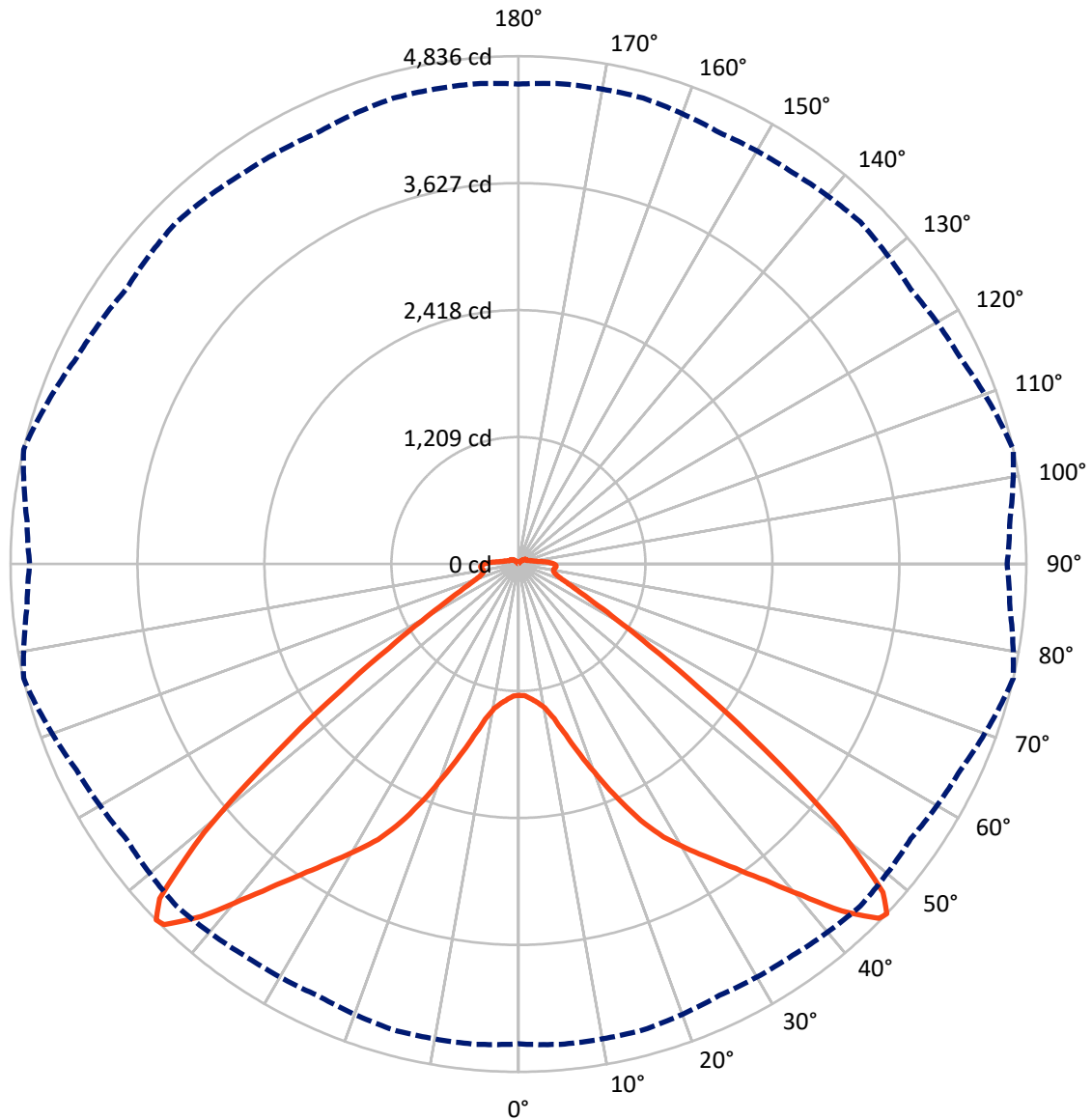
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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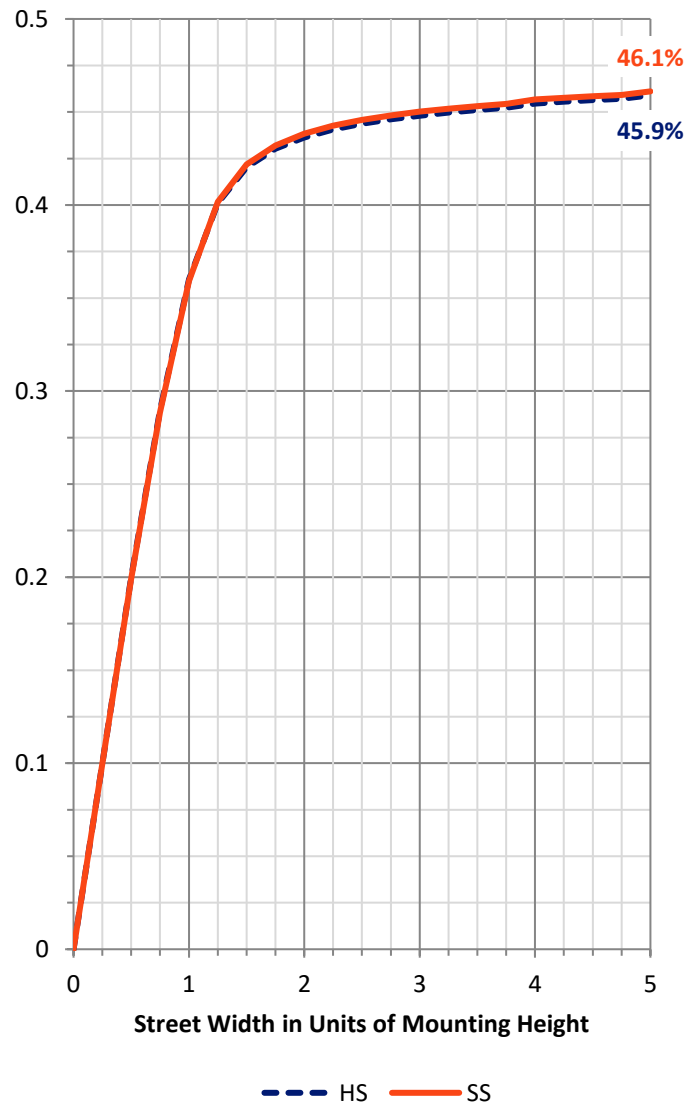
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5425.1	321.9	5747.0
	% Fixture	47.2	2.8	50.0
<b>Street Side</b>	Lumens	5425.1	321.9	5747.0
	% Fixture	47.2	2.8	50.0
<b>Total</b>	Lumens	10850.3	643.7	11494.0
	% Fixture	94.4	5.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	1.1
10°-20°	489.2	4.3
20°-30°	1201.5	10.5
30°-40°	2201.8	19.2
40°-50°	3370.4	29.3
50°-60°	1914.9	16.7
60°-70°	694.6	6.0
70°-80°	424.2	3.7
80°-90°	428.2	3.7
90°-100°	284.8	2.5
100°-110°	140.2	1.2
110°-120°	95.0	0.8
120°-130°	71.2	0.6
130°-140°	37.0	0.3
140°-150°	13.3	0.1
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10850.3	94.4
0°-180°	11494.0	100.0



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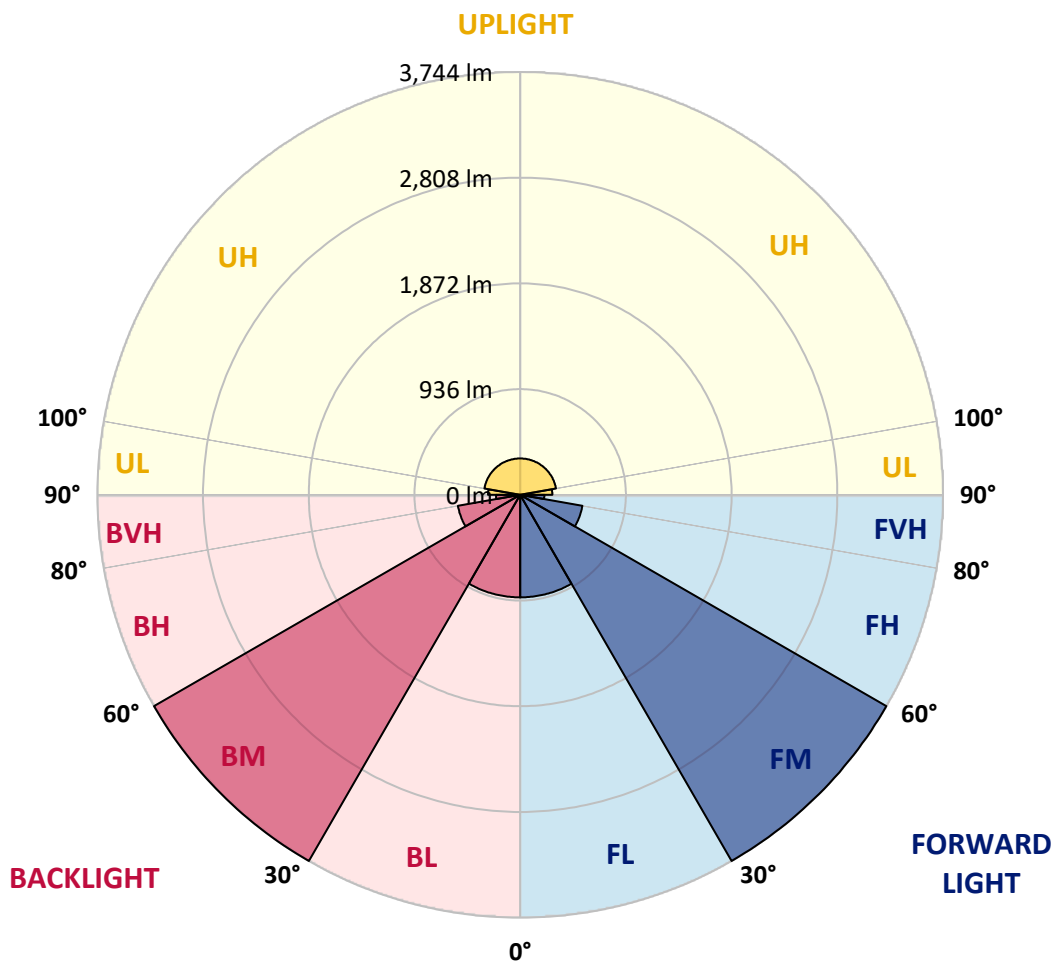
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	908.1	7.9			
FM	(30°-60°)	3743.5	32.6			
FH	(60°-80°)	559.4	4.9			G0/660
FVH	(80°-90°)	214.1	1.9			G2/225
BL	(0°-30°)	908.1	7.9	B2/1000		
BM	(30°-60°)	3743.5	32.6	B3/5000		
BH	(60°-80°)	559.4	4.9	B2/1000		G0/660
BVH	(80°-90°)	214.1	1.9			G2/225
UL	(90°-100°)	284.8	2.5		U3/500	
UH	(100°-180°)	321.9	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°	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6	1250.6
2.5°	1257.5	1256.5	1256.5	1255.5	1256.5	1256.5	1258.5	1258.5	1258.5	1256.5	1260.4
5°	1283.0	1282.1	1282.1	1282.1	1283.0	1284.0	1287.9	1289.9	1290.9	1289.9	1293.8
7.5°	1318.4	1316.5	1316.5	1316.5	1318.4	1322.4	1327.3	1330.2	1334.2	1334.2	1337.1
10°	1366.6	1364.6	1363.7	1368.6	1369.6	1375.5	1384.3	1387.2	1391.2	1393.1	1396.1
12.5°	1463.9	1460.0	1461.0	1473.8	1482.6	1493.4	1505.2	1505.2	1506.2	1510.1	1513.1
15°	1616.3	1613.4	1618.3	1638.9	1657.6	1670.4	1686.1	1685.1	1684.2	1689.1	1693.0
17.5°	1814.9	1808.0	1817.9	1835.6	1865.1	1876.9	1894.6	1898.5	1902.4	1910.3	1911.3
20°	2033.2	2026.3	2040.1	2052.9	2079.4	2095.1	2119.7	2127.6	2141.3	2153.1	2154.1
22.5°	2274.1	2264.2	2278.0	2283.9	2303.6	2321.3	2350.8	2374.3	2401.9	2428.4	2425.5
25°	2515.9	2517.9	2519.9	2525.8	2540.5	2558.2	2583.8	2631.9	2672.2	2703.7	2699.8
27.5°	2731.2	2734.2	2735.2	2744.0	2757.8	2777.4	2804.0	2860.0	2901.3	2943.6	2930.8
30°	2930.8	2933.8	2923.9	2936.7	2957.4	2979.0	3006.5	3057.7	3093.0	3137.3	3112.7
32.5°	3145.2	3138.3	3130.4	3142.2	3171.7	3199.2	3223.8	3271.0	3291.6	3333.9	3293.6
35°	3384.1	3394.9	3381.1	3382.1	3426.3	3453.9	3469.6	3508.9	3524.7	3560.0	3504.0
37.5°	3668.2	3687.9	3680.0	3676.1	3724.2	3756.7	3752.7	3788.1	3801.9	3822.6	3759.6
40°	4034.9	4036.9	4013.3	4013.3	4062.4	4106.7	4098.8	4136.2	4142.1	4145.0	4078.2
42.5°	4387.9	4397.7	4380.0	4362.3	4406.6	4442.0	4460.6	4508.8	4531.4	4517.7	4437.0
45°	4576.6	4608.1	4612.0	4558.0	4585.5	4629.7	4610.1	4686.8	4805.7	4814.6	4692.7
46°	4569.8	4591.4	4593.4	4532.4	4551.1	4605.2	4560.9	4643.5	4805.7	4836.2	4697.6
47.5°	4436.1	4415.4	4419.3	4328.9	4341.7	4378.0	4341.7	4398.7	4618.9	4672.0	4535.4
50°	3749.8	3760.6	3741.0	3608.2	3603.3	3624.0	3616.1	3618.1	3845.2	3937.6	3799.9
52.5°	2897.4	2867.9	2852.2	2723.4	2717.5	2729.3	2728.3	2733.2	2846.3	2937.7	2847.3
55°	2051.9	2094.1	2068.6	1978.1	1968.3	1997.8	1961.4	1980.1	2023.4	2084.3	2003.7
57.5°	1494.4	1523.9	1497.4	1444.3	1434.4	1447.2	1433.5	1443.3	1437.4	1470.8	1417.7
60°	1121.8	1129.7	1109.0	1082.5	1067.7	1073.6	1072.6	1063.8	1055.9	1068.7	1044.1
62.5°	855.4	852.4	847.5	838.6	825.9	828.8	825.9	823.9	806.2	802.3	794.4
65°	667.6	665.6	673.5	675.4	667.6	672.5	665.6	664.6	643.0	637.1	628.2
67.5°	541.7	541.7	550.6	562.4	562.4	568.3	564.3	556.5	533.9	525.0	516.2
70°	456.2	457.2	468.0	483.7	490.6	496.5	490.6	478.8	456.2	447.3	435.5
72.5°	395.2	396.2	412.9	433.6	443.4	449.3	441.4	427.7	401.1	393.3	377.5
75°	353.9	356.9	377.5	404.1	415.9	420.8	413.9	398.2	368.7	360.8	342.1
77.5°	324.4	329.4	356.9	390.3	408.0	412.9	407.0	386.4	351.0	342.1	321.5
80°	310.7	316.6	351.0	394.3	417.8	423.7	417.8	392.3	347.1	338.2	312.6
82.5°	314.6	320.5	358.9	412.9	441.4	447.3	441.4	410.0	356.9	347.1	319.5
85°	327.4	333.3	371.6	430.6	463.1	468.0	460.1	425.7	368.7	358.9	332.3
87.5°	334.3	339.2	372.6	427.7	458.2	458.2	451.3	418.8	367.7	358.9	336.2
90°	317.6	321.5	347.1	391.3	416.9	412.9	405.1	377.5	339.2	331.3	315.6
92.5°	282.2	287.1	302.8	335.3	357.9	353.0	344.1	321.5	296.9	291.0	281.2
95°	223.2	227.1	238.9	264.5	285.1	283.2	274.3	255.6	236.0	234.0	225.1
97.5°	174.0	176.0	186.8	207.4	225.1	228.1	219.2	201.5	185.8	181.9	176.0
100°	143.5	145.5	156.3	176.0	187.8	191.7	182.9	171.1	154.4	151.4	144.5
102.5°	128.8	129.8	140.6	155.3	163.2	164.2	158.3	149.4	136.7	134.7	126.8
105°	116.0	117.0	124.9	136.7	143.5	143.5	138.6	131.7	119.9	119.0	113.1
107.5°	104.2	104.2	111.1	120.9	127.8	128.8	123.9	117.0	107.2	105.2	100.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	93.4	93.4	100.3	110.1	117.0	118.0	113.1	106.2	96.4	94.4	90.5
112.5°	86.5	86.5	92.4	102.2	109.1	111.1	107.2	99.3	89.5	87.5	84.6
115°	83.6	83.6	88.5	98.3	104.2	107.2	103.2	97.3	87.5	84.6	82.6
117.5°	82.6	82.6	84.6	94.4	101.3	104.2	101.3	95.4	85.5	83.6	83.6
120°	82.6	81.6	82.6	92.4	97.3	99.3	98.3	92.4	83.6	82.6	83.6
122.5°	80.6	81.6	79.6	87.5	92.4	93.4	91.4	87.5	80.6	80.6	82.6
125°	76.7	76.7	74.7	80.6	85.5	86.5	84.6	80.6	75.7	75.7	77.7
127.5°	70.8	70.8	67.8	71.8	76.7	77.7	76.7	72.8	68.8	69.8	71.8
130°	63.9	63.9	61.0	62.9	66.9	67.8	66.9	62.9	61.0	61.9	62.9
132.5°	56.0	56.0	54.1	54.1	58.0	59.0	57.0	52.1	52.1	53.1	54.1
135°	49.2	50.1	47.2	45.2	48.2	49.2	47.2	42.3	44.2	45.2	47.2
137.5°	43.3	43.3	41.3	37.4	39.3	40.3	38.3	34.4	38.3	39.3	40.3
140°	36.4	36.4	34.4	31.5	31.5	31.5	29.5	28.5	31.5	32.4	33.4
142.5°	30.5	30.5	29.5	25.6	23.6	24.6	21.6	22.6	25.6	26.5	27.5
145°	25.6	25.6	23.6	20.6	16.7	17.7	14.7	18.7	21.6	21.6	22.6
147.5°	20.6	20.6	19.7	16.7	11.8	10.8	10.8	14.7	17.7	17.7	18.7
150°	16.7	16.7	14.7	11.8	7.9	2.9	6.9	10.8	13.8	13.8	14.7
152.5°	11.8	11.8	10.8	7.9	3.9	1.0	3.9	7.9	9.8	10.8	10.8
155°	7.9	7.9	5.9	3.9	1.0	0.0	0.0	3.9	5.9	6.9	6.9
157.5°	2.9	2.9	2.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0	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°	1250.6
2.5°	1259.4
5°	1293.8
7.5°	1335.1
10°	1393.1
12.5°	1510.1
15°	1691.0
17.5°	1910.3
20°	2154.1
22.5°	2420.6
25°	2701.7
27.5°	2934.8
30°	3112.7
32.5°	3290.7
35°	3494.2
37.5°	3742.9
40°	4055.6
42.5°	4418.4
45°	4653.3
46°	4654.3
47.5°	4481.3
50°	3742.9
52.5°	2803.0
55°	1997.8
57.5°	1407.9
60°	1031.3
62.5°	788.5
65°	623.3
67.5°	513.2
70°	431.6
72.5°	374.6
75°	338.2
77.5°	317.6
80°	308.7
82.5°	314.6
85°	327.4
87.5°	332.3
90°	312.6
92.5°	280.2
95°	225.1
97.5°	176.0
100°	144.5
102.5°	126.8
105°	113.1
107.5°	101.3



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**CANDELA DISTRIBUTION (continued):**

	90°
110°	91.4
112.5°	85.5
115°	82.6
117.5°	83.6
120°	83.6
122.5°	82.6
125°	78.7
127.5°	71.8
130°	63.9
132.5°	55.1
135°	47.2
137.5°	40.3
140°	33.4
142.5°	27.5
145°	22.6
147.5°	18.7
150°	14.7
152.5°	10.8
155°	6.9
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)