

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: P210502

Luminaire Tested: **CLCSLED-117-SM-UNV-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210502  
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-117-SM-UNV-7050  
Description: Canopy Wall Pack  
Light Source: (1) 5000K CCT, 72 CRI LEDS  
CLU048-1812  
Ballast/Driver: MEAN WELL  
MW HLG-120H-54

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13882 lumens  
Efficiency: N/A  
Efficacy: 114.6 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 - G3

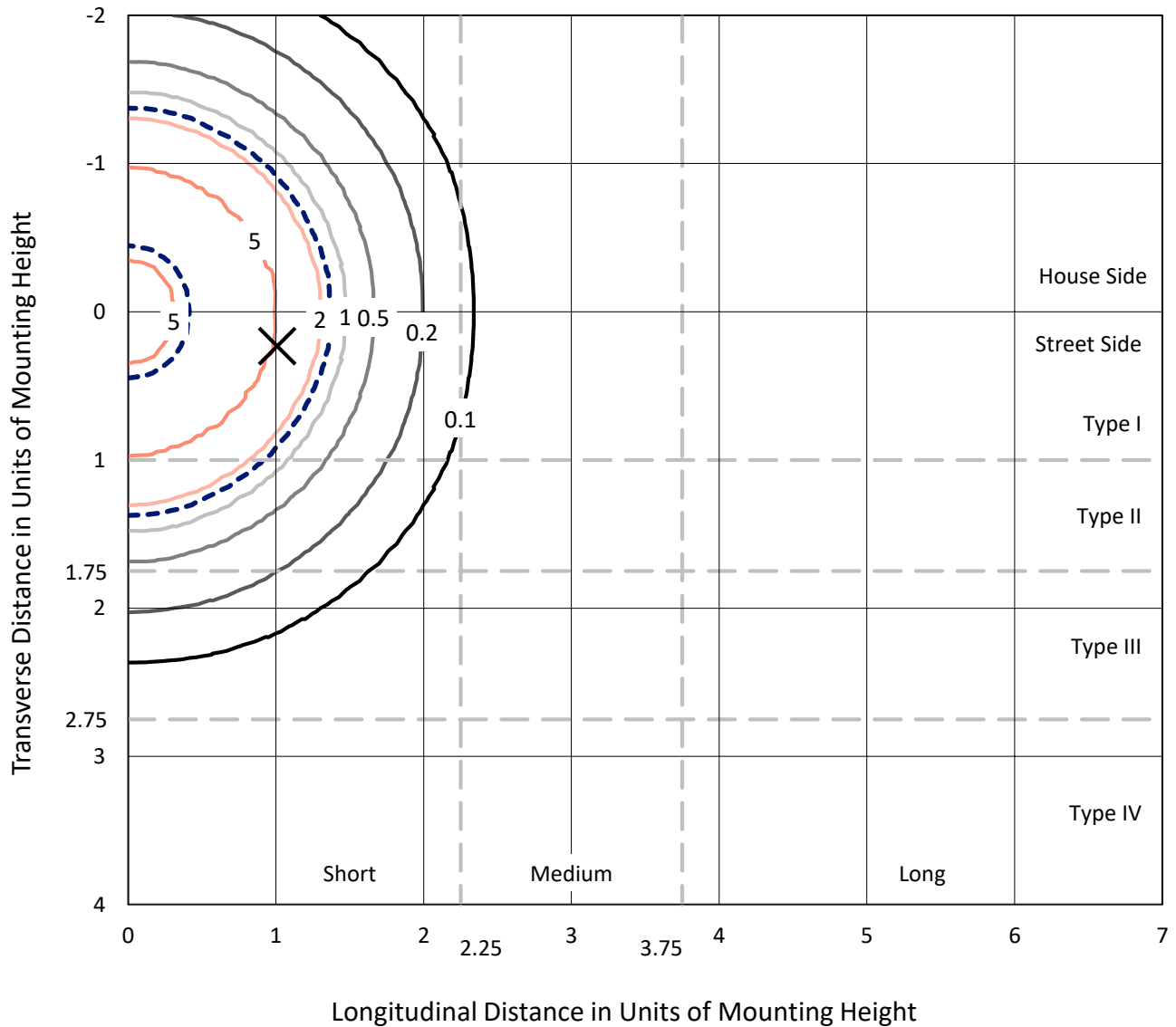
Input Watts (W): 121.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

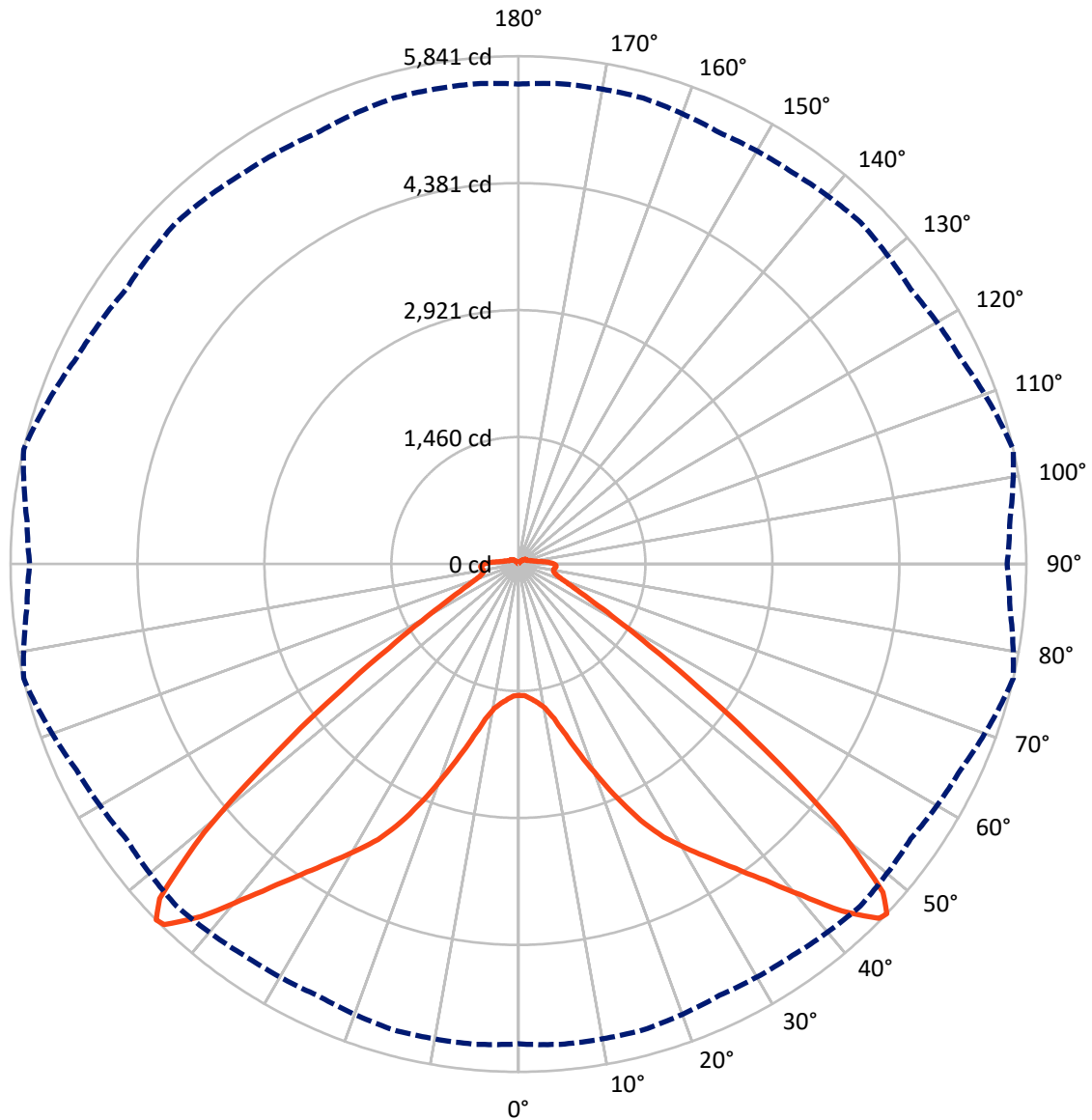
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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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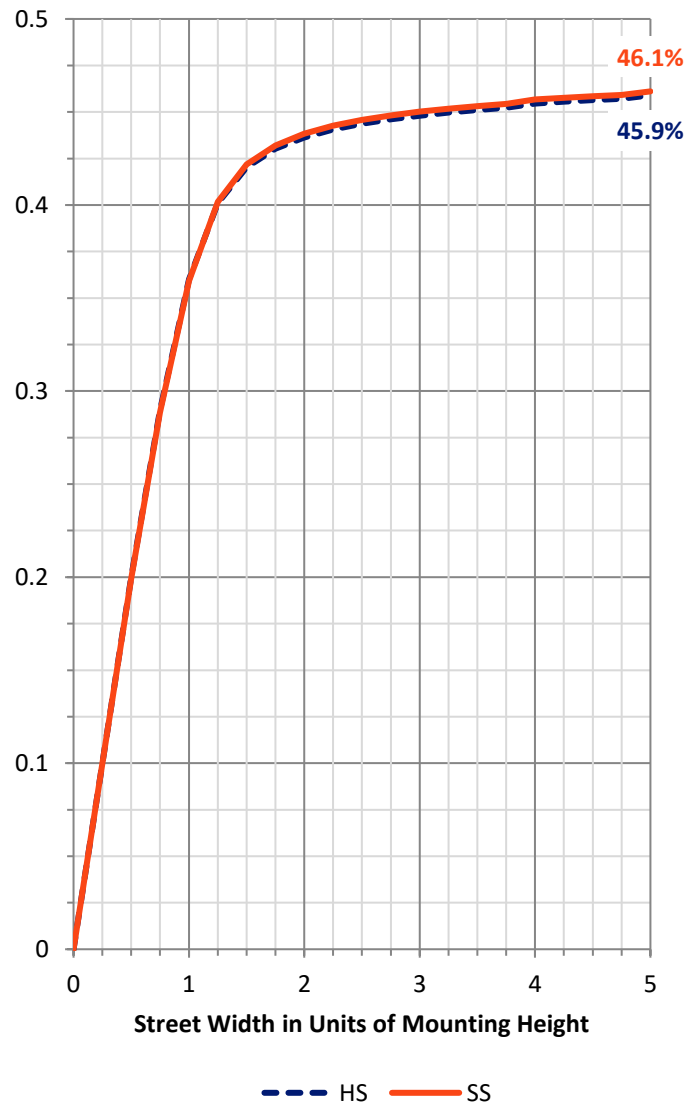
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6552.3	388.7	6941.0
	% Fixture	47.2	2.8	50.0
<b>Street Side</b>	Lumens	6552.3	388.7	6941.0
	% Fixture	47.2	2.8	50.0
<b>Total</b>	Lumens	13104.6	777.4	13882.0
	% Fixture	94.4	5.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	1.1
10°-20°	590.9	4.3
20°-30°	1451.1	10.5
30°-40°	2659.3	19.2
40°-50°	4070.6	29.3
50°-60°	2312.7	16.7
60°-70°	838.9	6.0
70°-80°	512.3	3.7
80°-90°	517.2	3.7
90°-100°	343.9	2.5
100°-110°	169.3	1.2
110°-120°	114.7	0.8
120°-130°	86.0	0.6
130°-140°	44.7	0.3
140°-150°	16.1	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13104.6	94.4
0°-180°	13882.0	100.0



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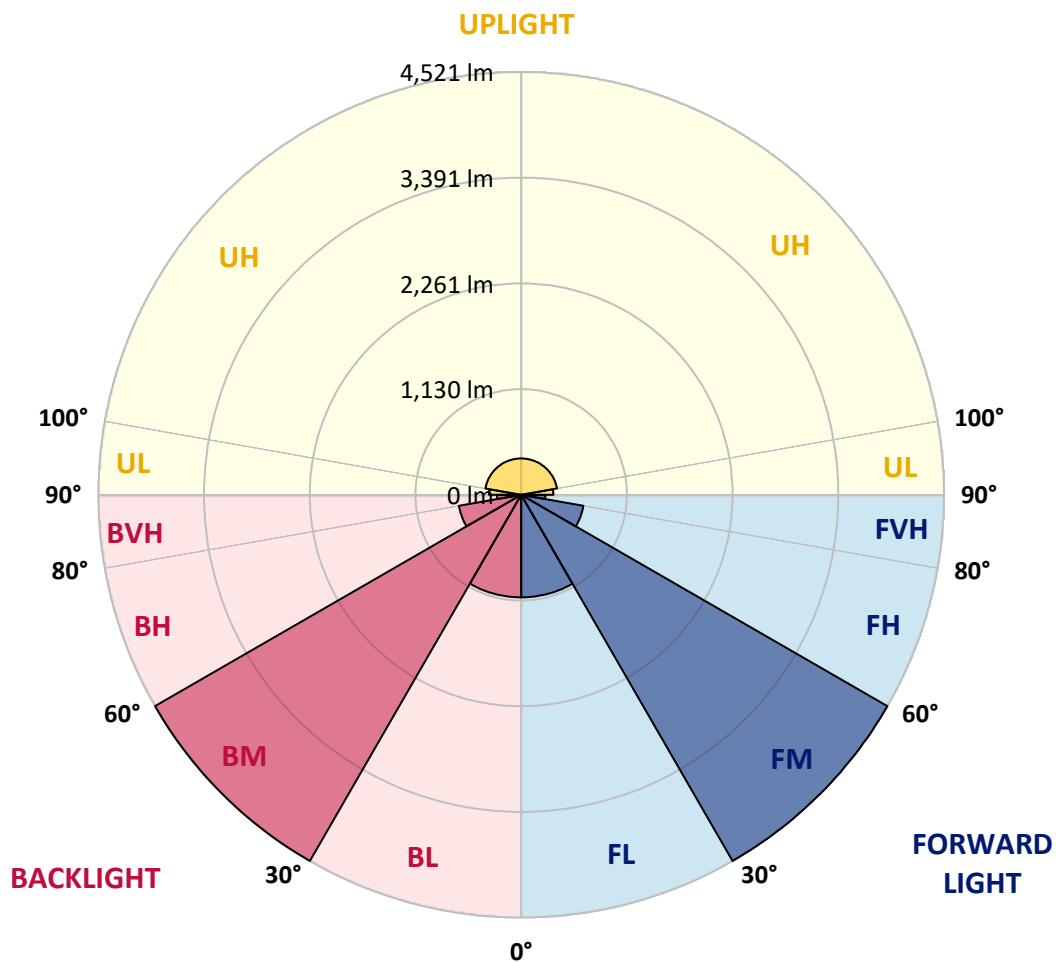
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.8	7.9			
FM (30°-60°)	4521.3	32.6			
FH (60°-80°)	675.6	4.9			G1/1800
FVH (80°-90°)	258.6	1.9			G3/500
BL (0°-30°)	1096.8	7.9	B3/2500		
BM (30°-60°)	4521.3	32.6	B3/5000		
BH (60°-80°)	675.6	4.9	B2/1000		G1/1800
BVH (80°-90°)	258.6	1.9			G3/500
UL (90°-100°)	343.9	2.5		U3/500	
UH (100°-180°)	388.7	2.8		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4
2.5°	1518.7	1517.5	1517.5	1516.3	1517.5	1517.5	1519.9	1519.9	1519.9	1517.5	1522.3
5°	1549.6	1548.4	1548.4	1548.4	1549.6	1550.8	1555.5	1557.9	1559.1	1557.9	1562.7
7.5°	1592.3	1590.0	1590.0	1590.0	1592.3	1597.1	1603.0	1606.6	1611.3	1611.3	1614.9
10°	1650.5	1648.2	1647.0	1652.9	1654.1	1661.2	1671.9	1675.5	1680.2	1682.6	1686.2
12.5°	1768.1	1763.3	1764.5	1780.0	1790.6	1803.7	1818.0	1818.0	1819.1	1823.9	1827.5
15°	1952.1	1948.6	1954.5	1979.4	2002.0	2017.4	2036.4	2035.3	2034.1	2040.0	2044.8
17.5°	2192.0	2183.7	2195.6	2216.9	2252.6	2266.8	2288.2	2292.9	2297.7	2307.2	2308.4
20°	2455.6	2447.3	2463.9	2479.4	2511.4	2530.4	2560.1	2569.6	2586.2	2600.5	2601.7
22.5°	2746.5	2734.7	2751.3	2758.4	2782.2	2803.5	2839.1	2867.6	2900.9	2933.0	2929.4
25°	3038.6	3041.0	3043.4	3050.5	3068.3	3089.7	3120.6	3178.8	3227.4	3265.4	3260.7
27.5°	3298.7	3302.2	3303.4	3314.1	3330.7	3354.5	3386.6	3454.2	3504.1	3555.2	3539.7
30°	3539.7	3543.3	3531.4	3546.9	3571.8	3597.9	3631.2	3692.9	3735.7	3789.1	3759.4
32.5°	3798.6	3790.3	3780.8	3795.0	3830.7	3863.9	3893.6	3950.6	3975.5	4026.6	3977.9
35°	4087.1	4100.2	4083.6	4084.8	4138.2	4171.4	4190.4	4237.9	4256.9	4299.7	4232.0
37.5°	4430.3	4454.1	4444.6	4439.8	4498.0	4537.2	4532.4	4575.2	4591.8	4616.7	4540.7
40°	4873.2	4875.6	4847.1	4847.1	4906.5	4959.9	4950.4	4995.5	5002.6	5006.2	4925.5
42.5°	5299.5	5311.4	5290.0	5268.6	5322.1	5364.8	5387.4	5445.6	5472.9	5456.2	5358.9
45°	5527.5	5565.5	5570.2	5504.9	5538.2	5591.6	5567.9	5660.5	5804.2	5814.8	5667.6
46°	5519.2	5545.3	5547.7	5474.1	5496.6	5561.9	5508.5	5608.2	5804.2	5841.0	5673.5
47.5°	5357.7	5332.8	5337.5	5228.3	5243.7	5287.6	5243.7	5312.6	5578.5	5642.7	5477.6
50°	4528.9	4541.9	4518.2	4357.9	4351.9	4376.9	4367.4	4369.7	4644.0	4755.7	4589.4
52.5°	3499.4	3463.7	3444.7	3289.2	3282.1	3296.3	3295.1	3301.1	3437.6	3548.0	3438.8
55°	2478.2	2529.2	2498.4	2389.1	2377.2	2412.9	2368.9	2391.5	2443.7	2517.4	2420.0
57.5°	1804.9	1840.5	1808.5	1744.3	1732.5	1747.9	1731.3	1743.1	1736.0	1776.4	1712.3
60°	1354.9	1364.4	1339.4	1307.4	1289.5	1296.7	1295.5	1284.8	1275.3	1290.7	1261.1
62.5°	1033.1	1029.5	1023.6	1012.9	997.4	1001.0	997.4	995.1	973.7	968.9	959.4
65°	806.3	803.9	813.4	815.8	806.3	812.2	803.9	802.7	776.6	769.5	758.8
67.5°	654.3	654.3	665.0	679.2	679.2	686.3	681.6	672.1	644.8	634.1	623.4
70°	551.0	552.2	565.2	584.2	592.5	599.7	592.5	578.3	551.0	540.3	526.0
72.5°	477.3	478.5	498.7	523.7	535.5	542.7	533.2	516.5	484.5	475.0	456.0
75°	427.5	431.0	456.0	488.0	502.3	508.2	499.9	480.9	445.3	435.8	413.2
77.5°	391.9	397.8	431.0	471.4	492.8	498.7	491.6	466.7	423.9	413.2	388.3
80°	375.2	382.4	423.9	476.2	504.7	511.8	504.7	473.8	419.2	408.5	377.6
82.5°	380.0	387.1	433.4	498.7	533.2	540.3	533.2	495.2	431.0	419.2	385.9
85°	395.4	402.5	448.8	520.1	559.3	565.2	555.7	514.2	445.3	433.4	401.4
87.5°	403.7	409.7	450.0	516.5	553.3	553.3	545.0	505.8	444.1	433.4	406.1
90°	383.5	388.3	419.2	472.6	503.5	498.7	489.2	456.0	409.7	400.2	381.2
92.5°	340.8	346.7	365.7	404.9	432.2	426.3	415.6	388.3	358.6	351.5	339.6
95°	269.5	274.3	288.5	319.4	344.4	342.0	331.3	308.7	285.0	282.6	271.9
97.5°	210.2	212.6	225.6	250.5	271.9	275.5	264.8	243.4	224.4	219.7	212.6
100°	173.4	175.7	188.8	212.6	226.8	231.5	220.9	206.6	186.4	182.9	174.6
102.5°	155.6	156.7	169.8	187.6	197.1	198.3	191.2	180.5	165.1	162.7	153.2
105°	140.1	141.3	150.8	165.1	173.4	173.4	167.4	159.1	144.9	143.7	136.6
107.5°	125.9	125.9	134.2	146.1	154.4	155.6	149.6	141.3	129.4	127.1	121.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	112.8	112.8	121.1	133.0	141.3	142.5	136.6	128.2	116.4	114.0	109.2
112.5°	104.5	104.5	111.6	123.5	131.8	134.2	129.4	119.9	108.1	105.7	102.1
115°	100.9	100.9	106.9	118.7	125.9	129.4	124.7	117.6	105.7	102.1	99.7
117.5°	99.7	99.7	102.1	114.0	122.3	125.9	122.3	115.2	103.3	100.9	100.9
120°	99.7	98.6	99.7	111.6	117.6	119.9	118.7	111.6	100.9	99.7	100.9
122.5°	97.4	98.6	96.2	105.7	111.6	112.8	110.4	105.7	97.4	97.4	99.7
125°	92.6	92.6	90.2	97.4	103.3	104.5	102.1	97.4	91.4	91.4	93.8
127.5°	85.5	85.5	81.9	86.7	92.6	93.8	92.6	87.9	83.1	84.3	86.7
130°	77.2	77.2	73.6	76.0	80.7	81.9	80.7	76.0	73.6	74.8	76.0
132.5°	67.7	67.7	65.3	65.3	70.1	71.2	68.9	62.9	62.9	64.1	65.3
135°	59.4	60.6	57.0	54.6	58.2	59.4	57.0	51.1	53.4	54.6	57.0
137.5°	52.2	52.2	49.9	45.1	47.5	48.7	46.3	41.6	46.3	47.5	48.7
140°	43.9	43.9	41.6	38.0	38.0	38.0	35.6	34.4	38.0	39.2	40.4
142.5°	36.8	36.8	35.6	30.9	28.5	29.7	26.1	27.3	30.9	32.1	33.2
145°	30.9	30.9	28.5	24.9	20.2	21.4	17.8	22.6	26.1	26.1	27.3
147.5°	24.9	24.9	23.7	20.2	14.2	13.1	13.1	17.8	21.4	21.4	22.6
150°	20.2	20.2	17.8	14.2	9.5	3.6	8.3	13.1	16.6	16.6	17.8
152.5°	14.2	14.2	13.1	9.5	4.7	1.2	4.7	9.5	11.9	13.1	13.1
155°	9.5	9.5	7.1	4.7	1.2	0.0	0.0	4.7	7.1	8.3	8.3
157.5°	3.6	3.6	2.4	1.2	0.0	0.0	0.0	1.2	1.2	2.4	3.6
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°	1510.4
2.5°	1521.1
5°	1562.7
7.5°	1612.5
10°	1682.6
12.5°	1823.9
15°	2042.4
17.5°	2307.2
20°	2601.7
22.5°	2923.5
25°	3263.1
27.5°	3544.5
30°	3759.4
32.5°	3974.3
35°	4220.1
37.5°	4520.5
40°	4898.2
42.5°	5336.3
45°	5620.1
46°	5621.3
47.5°	5412.3
50°	4520.5
52.5°	3385.4
55°	2412.9
57.5°	1700.4
60°	1245.6
62.5°	952.3
65°	752.8
67.5°	619.8
70°	521.3
72.5°	452.4
75°	408.5
77.5°	383.5
80°	372.9
82.5°	380.0
85°	395.4
87.5°	401.4
90°	377.6
92.5°	338.4
95°	271.9
97.5°	212.6
100°	174.6
102.5°	153.2
105°	136.6
107.5°	122.3

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**CANDELA DISTRIBUTION (continued):**

	90°
110°	110.4
112.5°	103.3
115°	99.7
117.5°	100.9
120°	100.9
122.5°	99.7
125°	95.0
127.5°	86.7
130°	77.2
132.5°	66.5
135°	57.0
137.5°	48.7
140°	40.4
142.5°	33.2
145°	27.3
147.5°	22.6
150°	17.8
152.5°	13.1
155°	8.3
157.5°	3.6
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)