

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: STREETWORKS

Report Number: P239824

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-50-D-U-5WQ-A-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4310 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

Input Watts (W): 54  
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

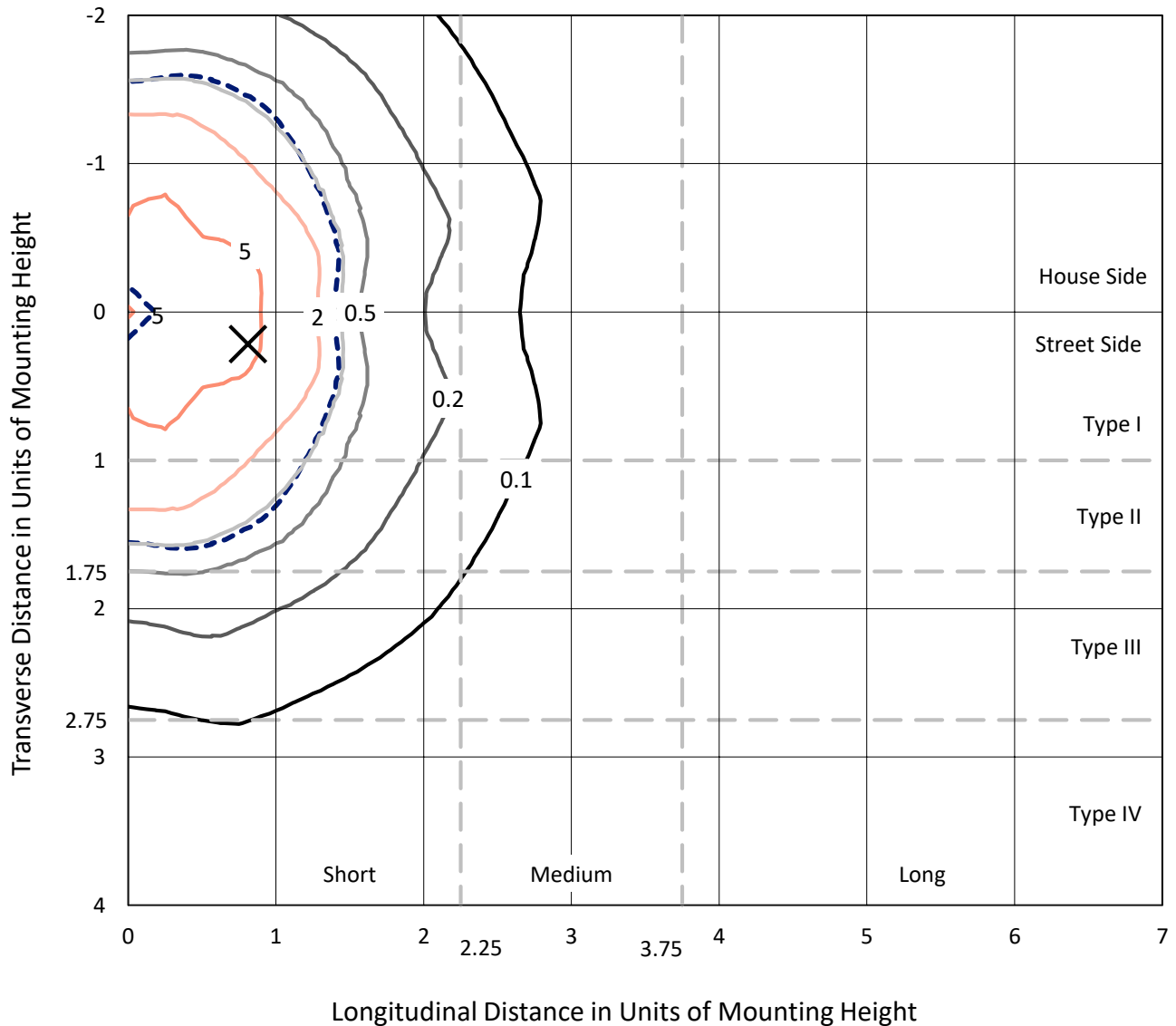


REPORT NUMBER: P239824

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-A-7030

### Iso-Footcandle Lines of Horizontal Illumination

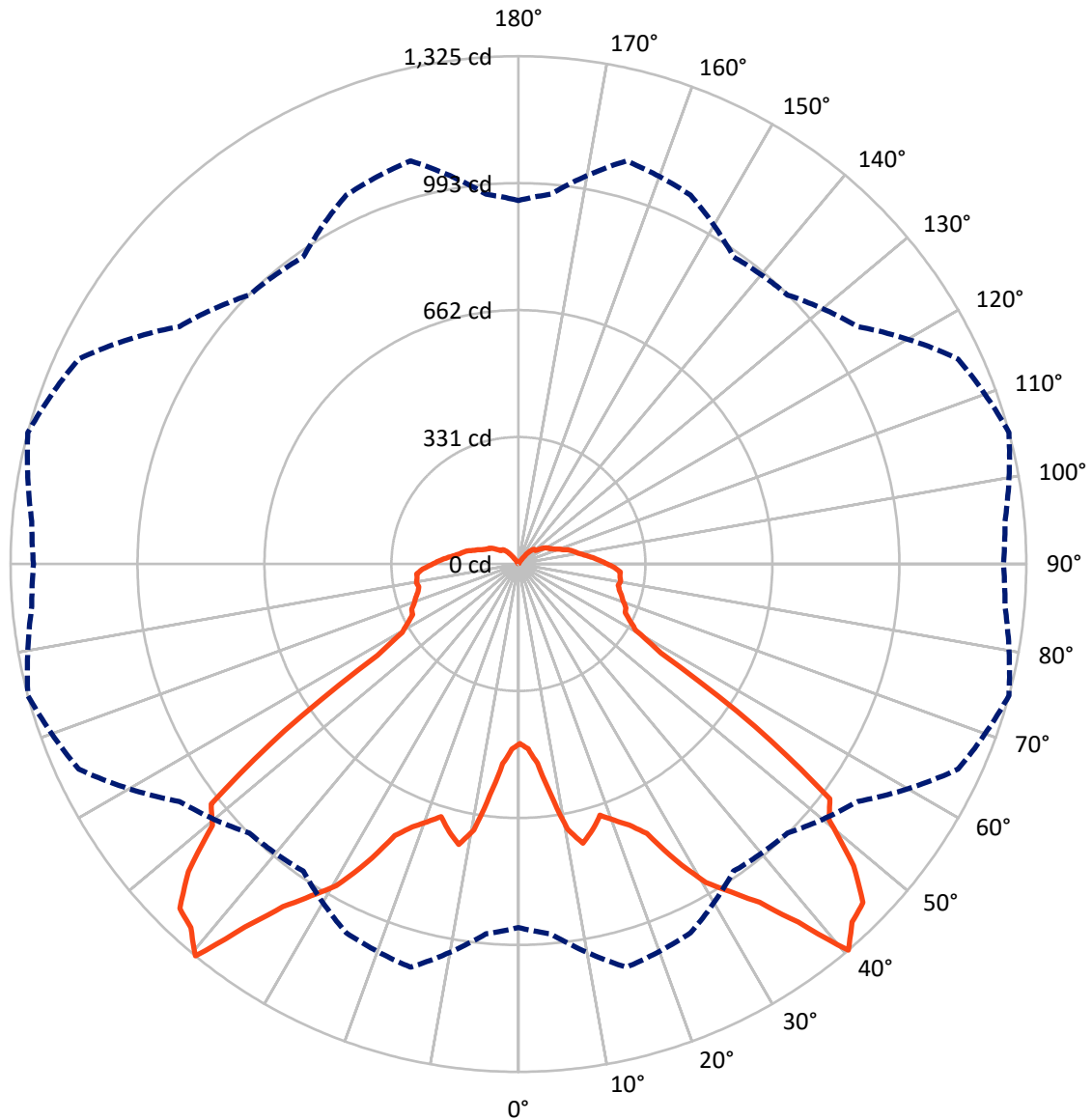
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 40-Deg Vertical



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CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-A-7030

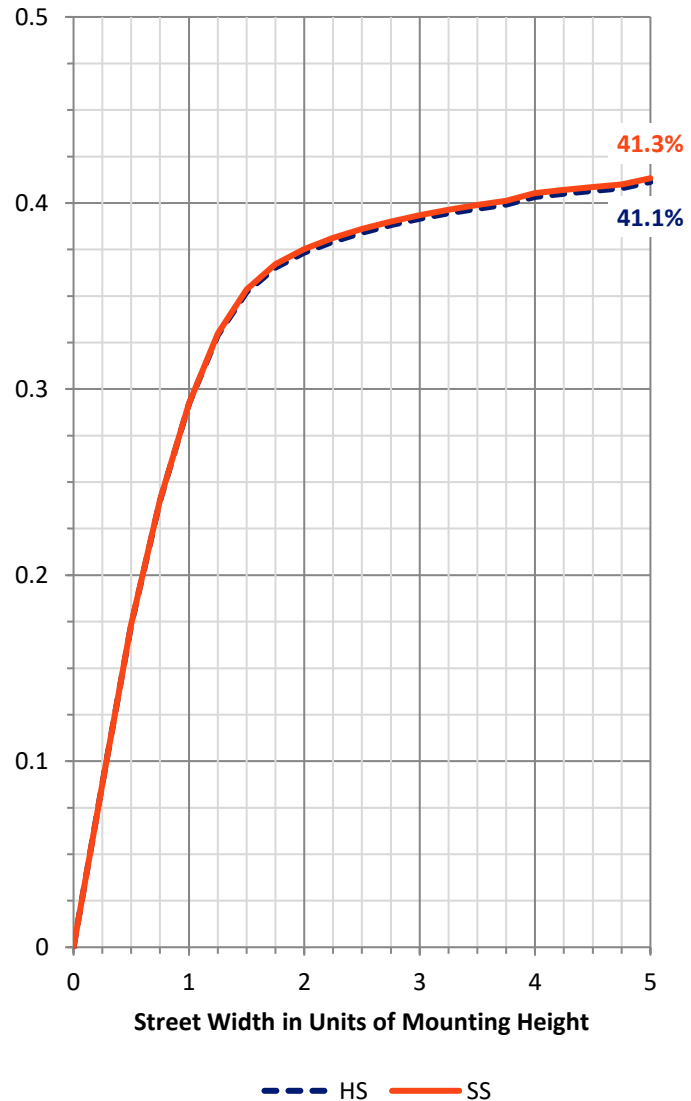
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1863.0	292.0	2155.0
	% Fixture	43.2	6.8	50.0
<b>Street Side</b>	Lumens	1863.0	292.0	2155.0
	% Fixture	43.2	6.8	50.0
<b>Total</b>	Lumens	3726.0	583.9	4310.0
	% Fixture	86.5	13.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	1.3
10°-20°	224.5	5.2
20°-30°	401.0	9.3
30°-40°	634.8	14.7
40°-50°	851.8	19.8
50°-60°	678.0	15.7
60°-70°	311.2	7.2
70°-80°	283.7	6.6
80°-90°	285.8	6.6
90°-100°	219.8	5.1
100°-110°	153.4	3.6
110°-120°	101.3	2.4
120°-130°	63.4	1.5
130°-140°	37.1	0.9
140°-150°	8.4	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3726.0	86.5
0°-180°	4310.0	100.0



REPORT NUMBER: P239824

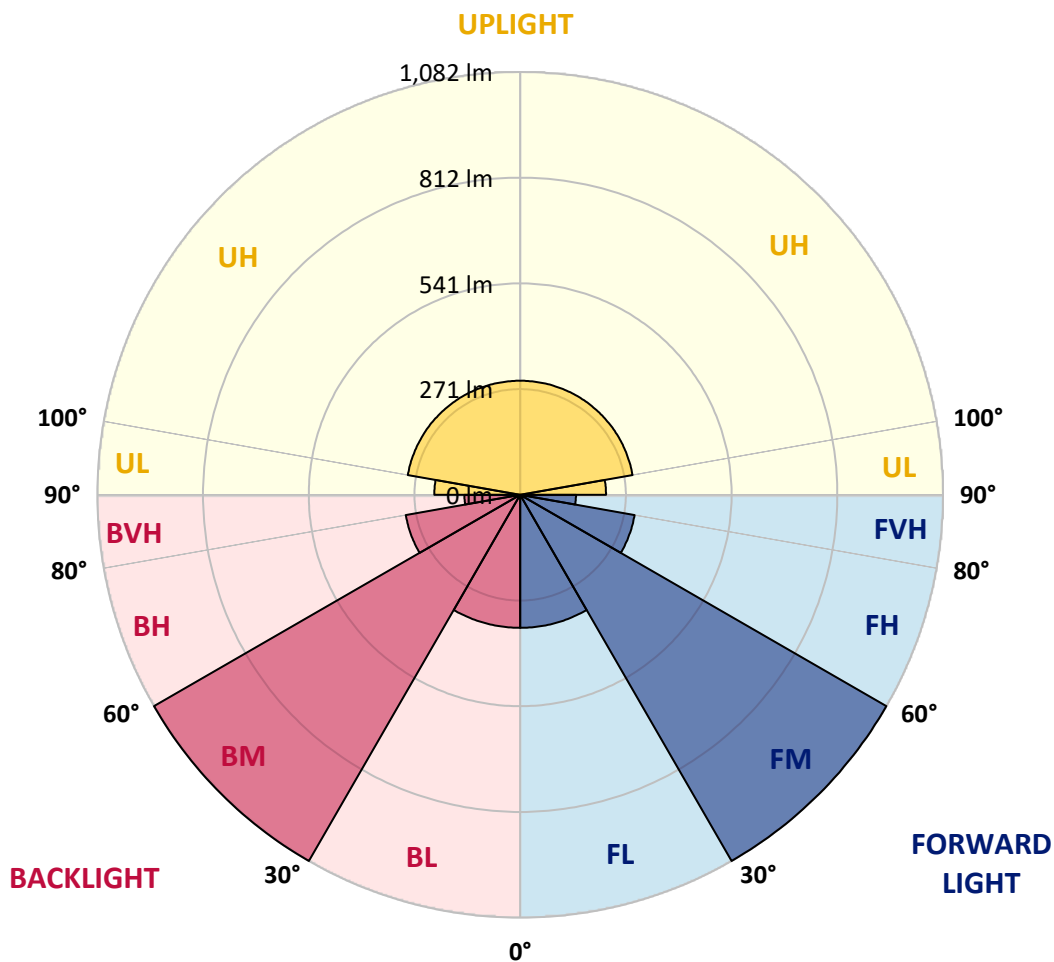
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.4	7.9			
FM	(30°-60°)	1082.3	25.1			
FH	(60°-80°)	297.4	6.9			G0/660
FVH	(80°-90°)	142.9	3.3			G2/225
BL	(0°-30°)	340.4	7.9	B1/500		
BM	(30°-60°)	1082.3	25.1	B2/2500		
BH	(60°-80°)	297.4	6.9	B1/500		G0/660
BVH	(80°-90°)	142.9	3.3			G2/225
UL	(90°-100°)	219.8	5.1		U3/500	
UH	(100°-180°)	292.0	6.8		U3/500	

**BUG Rating: B2-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	480.9	480.9	480.9	479.8	480.9	482.1	483.2	483.2	482.7	480.9	479.8
5°	514.8	514.8	514.2	515.4	515.4	513.1	514.2	518.3	522.3	519.4	518.3
7.5°	596.9	595.2	591.1	587.7	583.7	583.7	592.3	597.5	606.6	607.8	604.9
10°	679.5	681.8	684.1	684.1	693.9	704.8	712.2	709.9	703.1	697.9	694.5
12.5°	703.6	705.4	725.4	775.9	813.3	843.7	817.8	778.8	747.8	727.7	725.4
15°	722.0	726.6	751.8	815.0	908.5	933.8	880.4	781.1	720.9	692.2	685.8
17.5°	740.4	745.5	788.0	879.3	953.3	947.0	882.7	776.5	688.7	650.8	646.2
20°	724.3	730.0	789.7	912.0	965.9	935.5	913.1	813.3	713.4	669.8	664.6
22.5°	730.6	736.3	796.6	915.4	948.7	950.4	916.0	856.3	739.2	689.3	681.2
25°	742.1	746.7	821.3	941.2	941.8	937.2	920.0	887.3	778.2	730.6	723.7
27.5°	742.1	746.1	829.9	930.3	936.6	926.3	948.1	960.2	876.4	833.9	835.6
30°	775.4	777.7	864.3	929.2	914.8	922.9	984.3	1021.0	963.6	895.3	894.8
32.5°	840.2	851.1	942.4	968.8	912.5	920.0	993.5	1057.7	1020.4	938.4	929.2
35°	923.4	926.3	1010.1	1003.2	929.2	925.2	1015.3	1115.7	1084.1	1003.2	1000.4
37.5°	950.4	954.4	1054.3	1035.9	949.3	952.7	1051.4	1186.3	1185.2	1120.3	1099.6
40°	948.1	968.2	1088.7	1061.8	978.0	992.3	1079.6	1265.5	1324.6	1274.1	1264.9
42.5°	1119.2	1129.5	1200.1	1102.5	1004.4	1004.4	1091.0	1250.0	1276.4	1180.0	1161.1
45°	1136.9	1136.4	1213.9	1135.8	1011.3	987.7	1050.3	1190.9	1259.8	1196.1	1167.9
47.5°	1100.2	1114.6	1211.0	1116.9	998.6	940.7	980.3	1123.2	1176.5	1078.4	1056.0
50°	1060.6	1071.5	1145.0	1030.2	936.1	894.8	924.6	1027.9	1049.1	930.9	913.7
52.5°	952.1	953.3	1040.5	949.8	881.5	839.1	863.2	959.0	1017.0	903.9	891.9
55°	806.9	822.4	933.2	877.0	817.3	780.5	785.1	801.2	750.1	580.8	541.2
57.5°	617.0	637.1	766.2	769.1	723.1	664.6	600.3	508.5	437.9	281.2	270.3
60°	420.1	437.3	534.9	559.0	577.4	510.2	415.5	362.7	351.8	243.9	235.9
62.5°	260.0	274.3	365.6	374.2	414.4	372.5	329.4	313.4	326.0	233.0	227.3
65°	240.5	250.2	317.4	304.8	314.5	312.2	293.3	290.4	305.9	227.3	223.3
67.5°	232.4	240.5	293.8	284.7	288.7	292.1	278.9	281.2	302.5	231.9	227.3
70°	228.4	237.0	286.4	280.1	284.1	287.5	279.5	276.1	289.8	233.6	227.3
72.5°	225.6	234.7	274.9	270.9	281.8	291.0	282.9	275.5	281.2	234.7	228.4
75°	220.4	229.6	264.6	266.9	283.5	294.4	284.1	272.6	272.0	232.4	225.0
77.5°	219.2	229.6	253.7	268.0	284.1	298.4	290.4	273.8	266.3	233.6	224.4
80°	217.5	229.0	258.8	277.2	288.7	296.1	292.7	281.2	270.3	242.2	232.4
82.5°	227.3	237.6	263.4	284.1	287.5	286.4	286.4	278.9	266.9	242.8	233.6
85°	239.3	247.4	274.3	286.4	283.5	276.1	272.6	272.0	266.3	249.1	241.6
87.5°	237.0	242.8	261.1	272.6	273.8	258.8	259.4	256.0	249.7	232.4	226.1
90°	221.5	225.6	246.2	258.3	250.8	238.8	233.6	226.7	227.3	211.8	207.2
92.5°	211.2	215.8	230.7	237.6	236.5	216.4	212.9	212.4	208.9	195.7	192.8
95°	197.4	200.3	212.9	222.1	216.4	195.7	192.3	189.4	190.0	184.8	185.4
97.5°	194.0	196.3	205.5	203.7	194.0	176.2	173.9	172.8	172.2	169.3	168.7
100°	186.5	186.5	189.4	184.2	172.8	159.6	156.1	156.7	157.3	153.8	152.7
102.5°	173.9	174.5	175.6	171.0	160.1	146.4	142.9	145.8	146.9	145.8	145.2
105°	164.7	164.1	164.7	159.6	147.5	135.4	131.4	134.3	137.2	137.7	136.6
107.5°	150.9	150.4	150.4	145.2	136.0	126.3	122.8	121.1	121.1	121.1	121.1
110°	130.9	131.4	131.4	129.1	124.5	118.8	114.2	110.8	111.9	111.3	112.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	121.7	121.7	120.5	118.8	114.2	108.5	103.3	101.0	99.9	99.3	99.9
115°	111.9	112.5	109.0	107.9	103.3	99.9	94.7	93.0	93.0	94.7	95.8
117.5°	103.3	103.3	101.0	98.1	94.1	91.3	89.0	87.8	87.8	90.1	90.1
120°	93.5	93.5	91.3	87.8	86.1	82.1	82.6	82.1	83.8	86.7	87.2
122.5°	82.6	82.6	80.3	77.5	78.6	75.8	74.6	72.3	75.8	79.2	79.8
125°	73.5	72.9	70.6	67.1	71.7	71.7	68.9	61.4	66.0	68.9	69.4
127.5°	67.1	66.6	63.7	60.3	66.0	69.4	63.1	55.7	58.0	60.8	62.0
130°	63.7	63.1	60.3	56.2	58.0	66.0	56.8	53.4	56.2	59.1	59.1
132.5°	61.4	60.8	58.5	54.5	51.7	60.3	51.1	52.2	56.2	59.1	59.1
135°	56.8	56.8	53.9	48.2	41.3	44.2	41.3	47.1	51.7	53.9	54.5
137.5°	48.8	48.8	46.5	41.3	33.3	31.6	32.7	40.2	45.3	47.6	47.6
140°	38.5	37.9	35.6	31.0	21.8	14.9	21.2	30.4	35.6	37.9	37.9
142.5°	27.0	26.4	23.5	18.9	11.5	5.2	11.5	18.4	23.5	25.8	26.4
145°	17.2	17.2	14.9	11.5	5.7	1.7	4.6	10.9	14.3	16.6	16.6
147.5°	10.9	10.9	9.2	6.3	1.7	1.1	1.7	5.2	8.6	10.3	10.9
150°	6.3	6.3	4.6	2.3	1.1	0.6	1.1	1.7	3.4	5.2	5.2
152.5°	2.3	1.7	1.1	1.1	0.6	0.6	0.6	1.1	1.1	1.7	1.7
155°	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
162.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.6	0.6	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

(END OF REPORT)