

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: P240363

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-40-D-U-5WQ-TL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4042.5 lumens  
Efficiency: N/A  
Efficacy: 101.1 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: B3 - U3 - G2

Input Watts (W): 40  
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

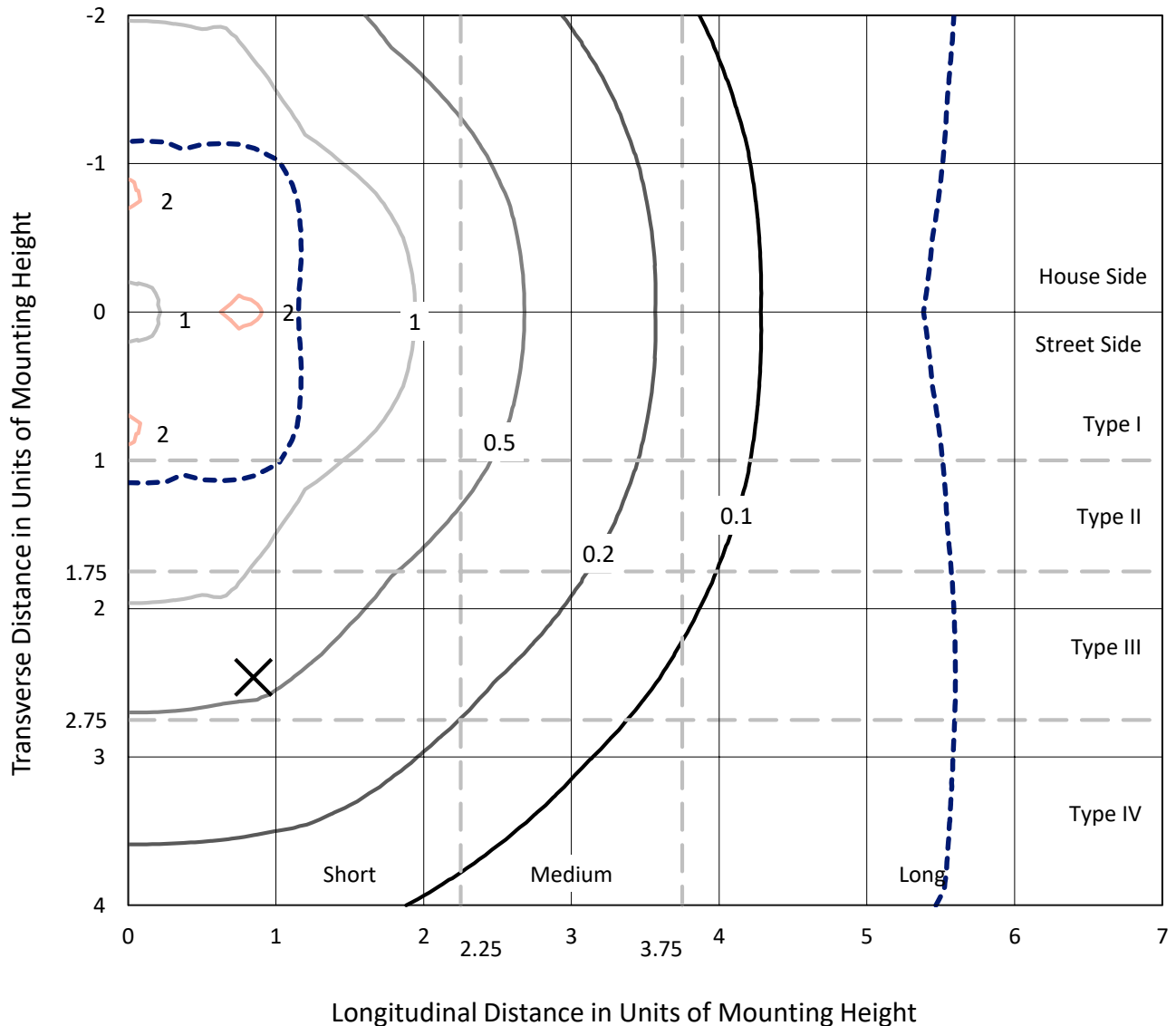


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

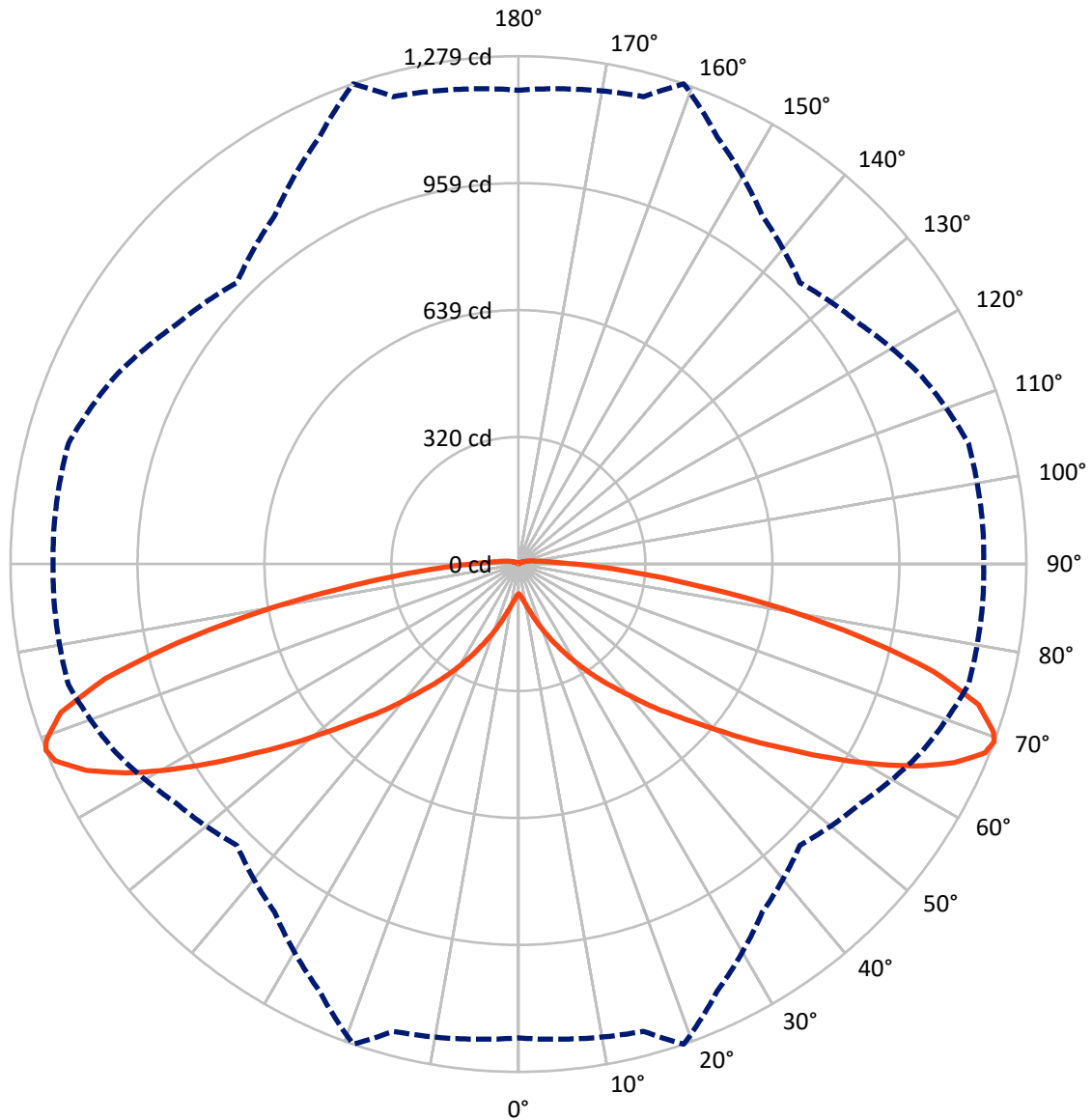


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 19-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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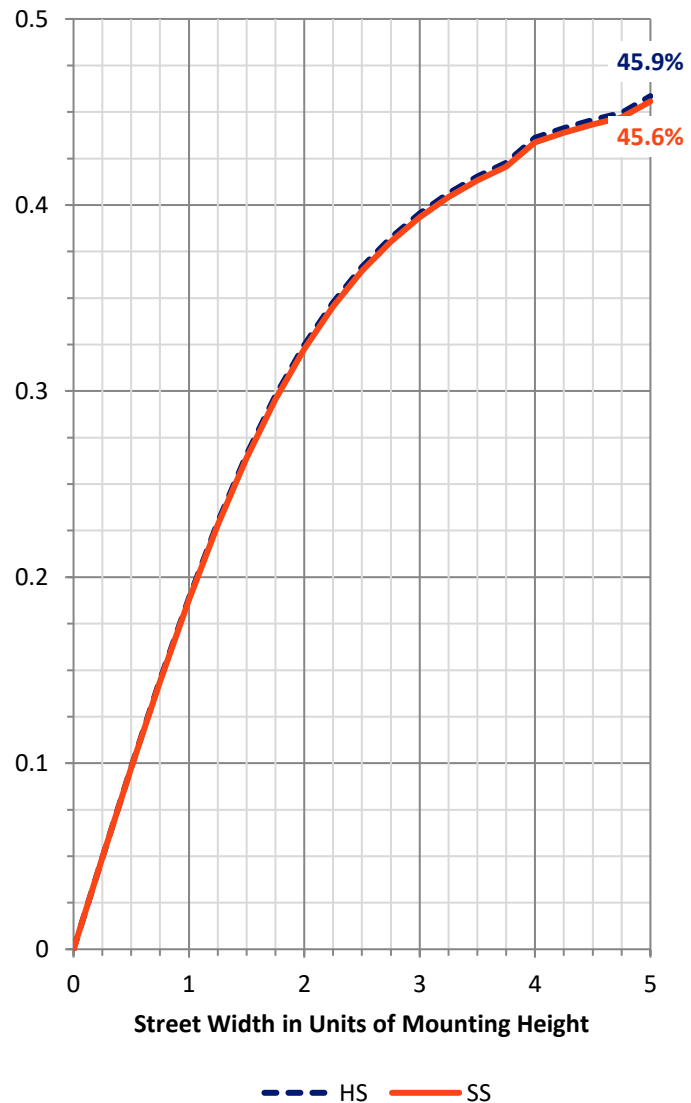
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1939.3	82.0	2021.3
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	1939.3	82.0	2021.3
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	3878.6	164.0	4042.5
	% Fixture	95.9	4.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.1	0.2
10°-20°	36.1	0.9
20°-30°	98.5	2.4
30°-40°	208.2	5.1
40°-50°	380.1	9.4
50°-60°	663.9	16.4
60°-70°	1040.7	25.7
70°-80°	1026.7	25.4
80°-90°	416.3	10.3
90°-100°	100.3	2.5
100°-110°	36.6	0.9
110°-120°	15.4	0.4
120°-130°	7.1	0.2
130°-140°	3.3	0.1
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3878.6	95.9
0°-180°	4042.5	100.0



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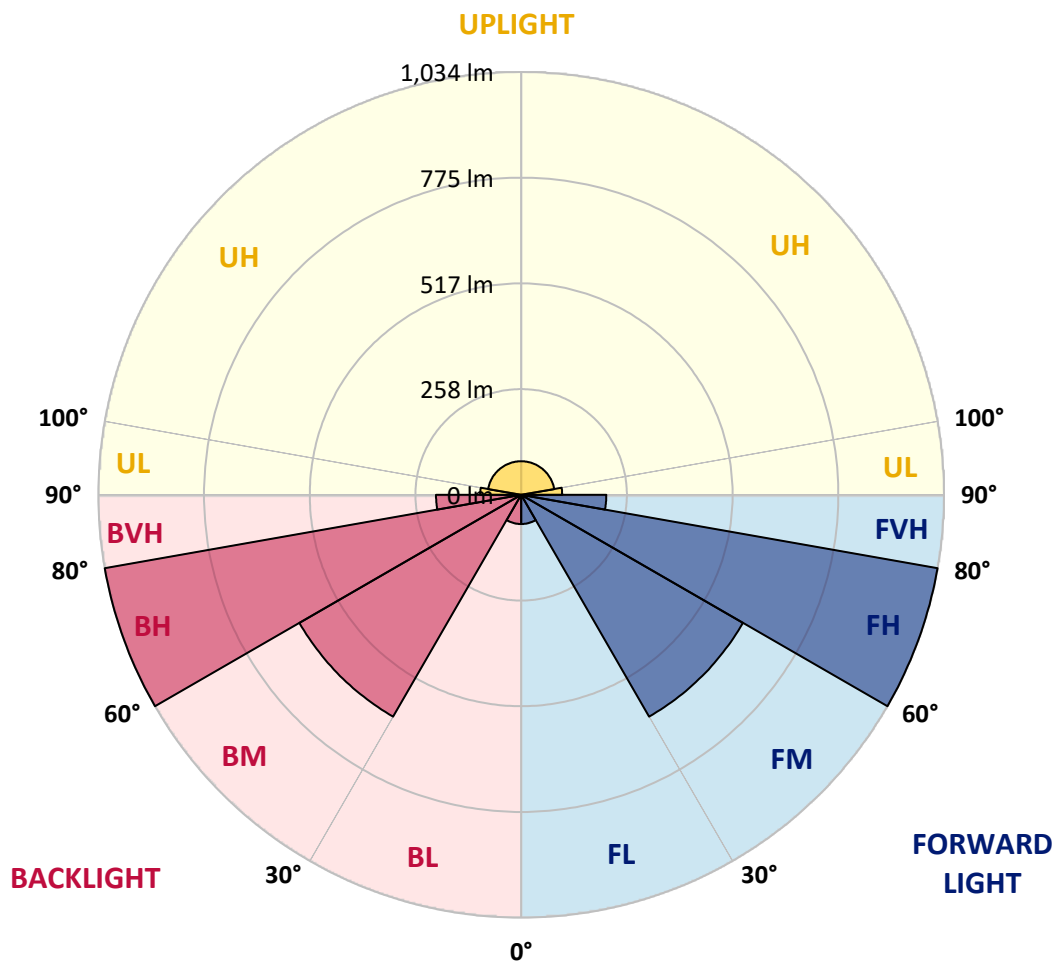
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.4	1.8			
FM	(30°-60°)	626.1	15.5			
FH	(60°-80°)	1033.7	25.6			G1/1800
FVH	(80°-90°)	208.2	5.1			G2/225
BL	(0°-30°)	71.4	1.8	B0/110		
BM	(30°-60°)	626.1	15.5	B1/1000		
BH	(60°-80°)	1033.7	25.6	B3/2500		G1/1800
BVH	(80°-90°)	208.2	5.1			G2/225
UL	(90°-100°)	100.3	2.5		U3/500	
UH	(100°-180°)	82.0	2.0		U3/500	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	76.3	76.3	76.3	78.2	76.3	76.3	76.3	76.3	76.3	76.3	75.8
5°	80.2	80.2	80.2	84.5	80.2	79.8	79.8	80.2	79.8	79.8	79.8
7.5°	87.5	87.1	87.1	92.9	87.1	86.6	86.1	86.1	86.1	85.5	85.5
10°	97.4	96.8	96.3	104.2	95.8	95.4	94.8	94.4	94.4	94.4	94.8
12.5°	110.1	110.1	109.0	117.9	107.6	106.1	105.1	104.7	105.1	105.7	106.1
15°	126.2	126.6	125.2	134.5	121.9	119.3	117.9	117.9	118.9	120.3	121.9
17.5°	147.7	147.2	144.2	155.4	140.4	135.5	132.1	132.5	135.9	139.9	142.4
20°	171.2	169.7	166.3	177.5	160.4	153.1	149.1	150.1	156.0	162.4	165.7
22.5°	197.1	195.6	190.7	202.0	181.9	172.6	168.7	170.2	177.5	186.9	193.7
25°	225.5	225.0	218.1	228.4	205.0	193.7	188.3	191.7	202.0	216.2	224.5
27.5°	256.8	255.7	246.9	258.2	230.9	217.1	210.8	214.2	228.0	246.5	259.7
30°	290.9	290.0	277.8	290.0	258.2	240.6	233.3	238.6	255.3	280.2	294.9
32.5°	327.7	326.6	311.5	323.3	288.6	266.0	256.3	263.7	285.1	312.5	332.0
35°	366.3	363.9	348.2	359.5	320.7	292.5	280.7	291.9	316.0	348.2	370.3
37.5°	407.9	405.0	386.9	396.6	354.5	322.4	309.1	319.4	349.7	383.9	410.9
40°	450.9	448.5	426.4	439.2	393.3	354.1	338.4	351.2	385.9	422.1	449.9
42.5°	496.4	494.0	473.0	489.1	434.8	388.9	370.7	386.9	424.5	464.6	495.0
45°	543.3	542.4	522.4	538.0	479.7	429.4	408.8	427.4	468.5	513.1	542.4
47.5°	600.6	594.7	579.5	594.7	533.6	479.3	453.9	473.4	518.9	567.3	596.7
50°	657.3	656.3	643.1	661.7	594.3	530.7	502.8	525.2	577.1	627.0	654.9
52.5°	724.8	726.8	712.6	740.4	664.7	595.7	562.4	587.9	645.6	694.1	721.3
55°	797.1	798.1	792.3	822.1	740.4	663.2	627.9	655.9	715.0	768.3	794.2
57.5°	881.2	880.3	878.3	919.4	829.5	743.8	700.4	734.1	795.7	849.5	871.1
60°	964.4	964.4	969.3	1020.7	923.4	827.0	776.7	815.3	880.3	937.0	952.7
62.5°	1054.5	1055.9	1060.3	1120.5	1013.4	911.7	854.0	895.9	969.3	1021.7	1034.3
65°	1127.8	1134.6	1144.4	1206.5	1102.9	988.4	927.7	972.3	1047.6	1099.4	1107.3
67.5°	1181.1	1184.5	1203.2	1267.6	1168.8	1049.6	983.0	1029.0	1103.3	1156.2	1161.1
69°	1193.3	1201.2	1218.2	1278.9	1186.0	1070.5	1002.1	1051.5	1120.0	1173.2	1173.2
70°	1187.9	1197.7	1218.2	1269.6	1190.0	1077.4	1010.4	1056.4	1123.4	1172.8	1171.4
72.5°	1128.7	1135.6	1170.8	1211.4	1160.2	1063.7	1006.5	1046.1	1093.0	1127.3	1118.5
75°	1004.1	1010.8	1050.5	1079.4	1066.7	999.1	958.5	984.5	1007.1	1010.4	993.8
77.5°	811.4	821.6	876.4	878.3	916.4	890.1	868.6	877.9	863.7	848.1	811.9
80°	612.3	619.6	670.0	665.2	728.2	744.8	742.4	737.1	694.5	645.0	604.5
82.5°	424.5	430.4	480.7	458.3	541.0	581.0	595.3	576.6	512.1	456.2	420.1
85°	271.9	281.7	321.3	306.7	380.0	428.4	449.5	420.6	359.5	305.7	275.4
87.5°	176.0	180.0	208.8	196.5	252.4	302.2	324.7	301.2	246.9	202.0	176.6
90°	113.4	117.9	135.9	126.6	168.7	207.8	226.9	205.0	167.2	135.5	117.9
92.5°	79.2	82.6	92.9	87.5	113.4	143.3	160.4	143.3	116.0	95.8	83.1
95°	60.6	62.1	69.5	64.6	82.6	103.7	113.9	103.7	84.5	71.9	63.1
97.5°	48.0	48.9	54.3	50.4	62.1	77.2	85.1	77.8	65.0	56.3	49.3
100°	38.7	39.2	43.4	41.5	49.9	60.6	66.0	61.1	52.3	45.1	39.7
102.5°	31.2	31.2	35.7	34.8	41.1	48.9	52.8	50.4	43.0	36.7	31.2
105°	24.9	24.9	28.9	28.9	34.2	40.1	43.4	41.1	35.2	29.4	24.9
107.5°	19.5	20.1	23.0	23.0	28.4	33.3	35.7	33.8	28.9	23.0	19.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	15.7	16.2	18.6	19.1	23.5	27.9	29.8	27.9	23.5	18.1	15.2
112.5°	12.7	12.7	15.2	15.2	19.1	23.0	24.5	23.0	19.1	14.2	12.2
115°	10.7	10.7	12.2	12.2	15.7	19.1	20.5	19.1	15.2	11.7	10.3
117.5°	9.3	9.3	10.3	10.3	13.2	16.2	17.2	15.7	12.7	9.9	8.8
120°	8.3	8.3	8.8	8.8	10.7	13.2	14.2	13.2	10.3	8.3	7.8
122.5°	7.3	7.3	7.8	7.3	9.3	11.3	11.7	10.7	8.8	7.3	6.9
125°	6.9	6.9	6.9	6.3	7.8	9.3	9.9	8.8	7.3	6.3	6.3
127.5°	5.9	5.9	5.9	5.4	6.3	7.8	8.3	7.3	6.3	5.9	5.4
130°	5.4	5.4	5.4	4.9	5.9	6.3	6.9	6.3	5.4	5.4	5.4
132.5°	4.9	4.9	4.9	4.4	4.9	5.4	5.4	4.9	4.4	4.4	4.9
135°	4.4	4.4	4.4	4.0	4.0	4.0	4.4	4.0	4.0	4.0	4.4
137.5°	4.0	4.0	4.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.0
140°	3.4	3.4	3.4	2.4	2.9	2.4	2.4	2.4	2.9	2.9	3.4
142.5°	2.9	2.9	2.4	2.4	2.4	1.9	1.4	1.9	1.9	2.4	2.9
145°	2.4	2.4	1.9	1.9	1.9	1.4	1.0	1.0	1.9	1.9	1.9
147.5°	1.9	1.9	1.4	1.4	1.4	1.0	0.4	1.0	1.4	1.4	1.9
150°	1.4	1.4	1.0	1.0	1.0	0.4	0.4	0.4	1.0	1.0	1.4
152.5°	1.0	1.0	1.0	0.4	0.4	0.4	0.0	0.4	0.4	1.0	1.0
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	74.9
2.5°	75.8
5°	79.8
7.5°	85.5
10°	94.4
12.5°	106.6
15°	121.9
17.5°	141.8
20°	166.7
22.5°	195.6
25°	226.9
27.5°	261.1
30°	296.8
32.5°	335.5
35°	374.6
37.5°	413.2
40°	454.8
42.5°	496.9
45°	543.9
47.5°	598.0
50°	660.3
52.5°	724.3
55°	792.3
57.5°	871.1
60°	954.2
62.5°	1035.3
65°	1105.2
67.5°	1159.6
69°	1171.8
70°	1167.9
72.5°	1108.2
75°	981.5
77.5°	803.5
80°	591.3
82.5°	405.0
85°	269.0
87.5°	172.2
90°	113.0
92.5°	80.8
95°	61.1
97.5°	48.4
100°	38.7
102.5°	31.2
105°	24.5
107.5°	19.1



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**CANDELA DISTRIBUTION (continued):**

	90°
110°	15.2
112.5°	12.2
115°	10.3
117.5°	8.8
120°	7.3
122.5°	6.9
125°	6.3
127.5°	5.4
130°	5.4
132.5°	4.9
135°	4.4
137.5°	4.0
140°	3.4
142.5°	2.9
145°	2.4
147.5°	1.4
150°	1.4
152.5°	1.0
155°	0.4
157.5°	0.0
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)