

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: P240911

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U2 - G1

Input Watts (W): 31
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

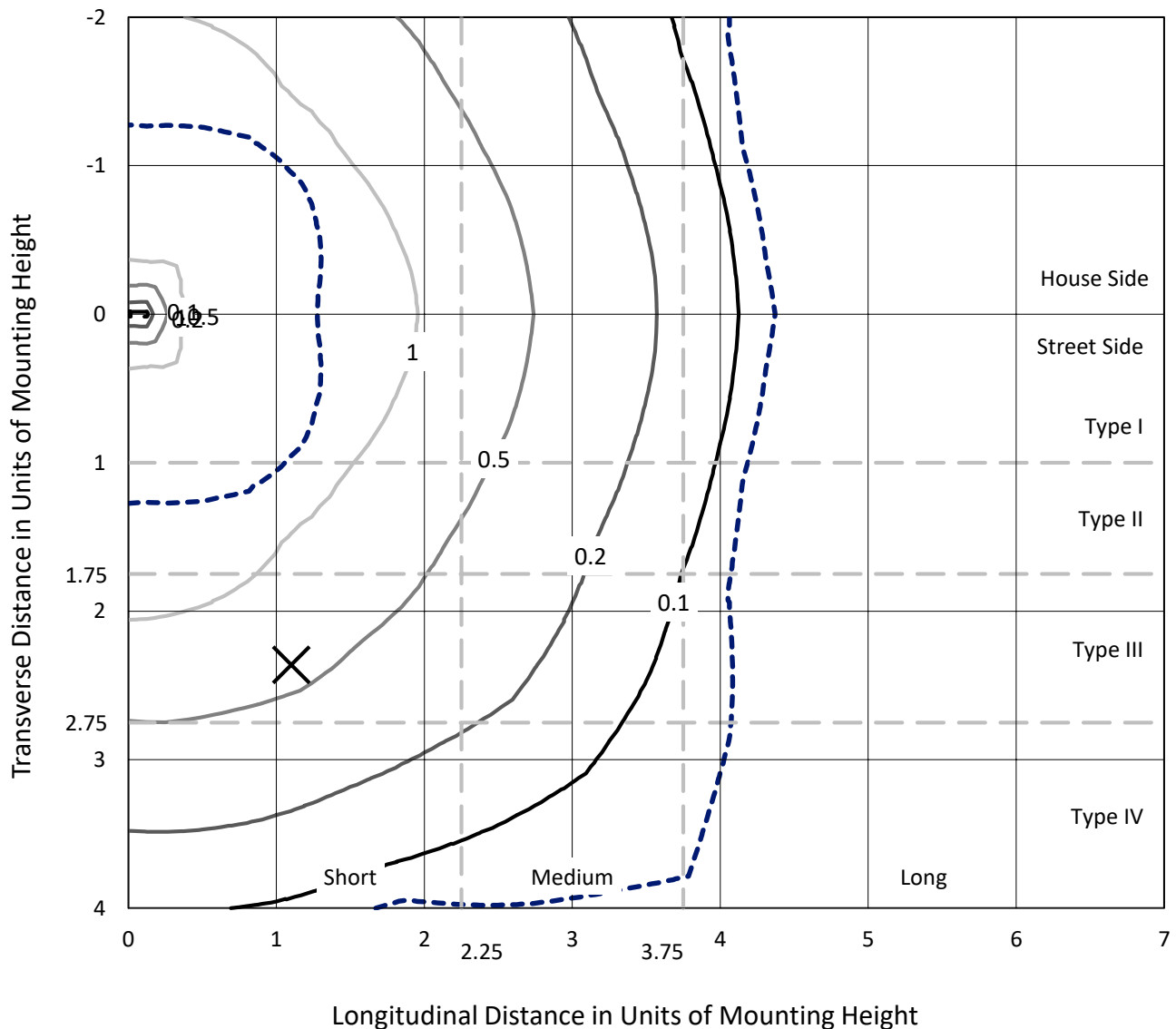


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

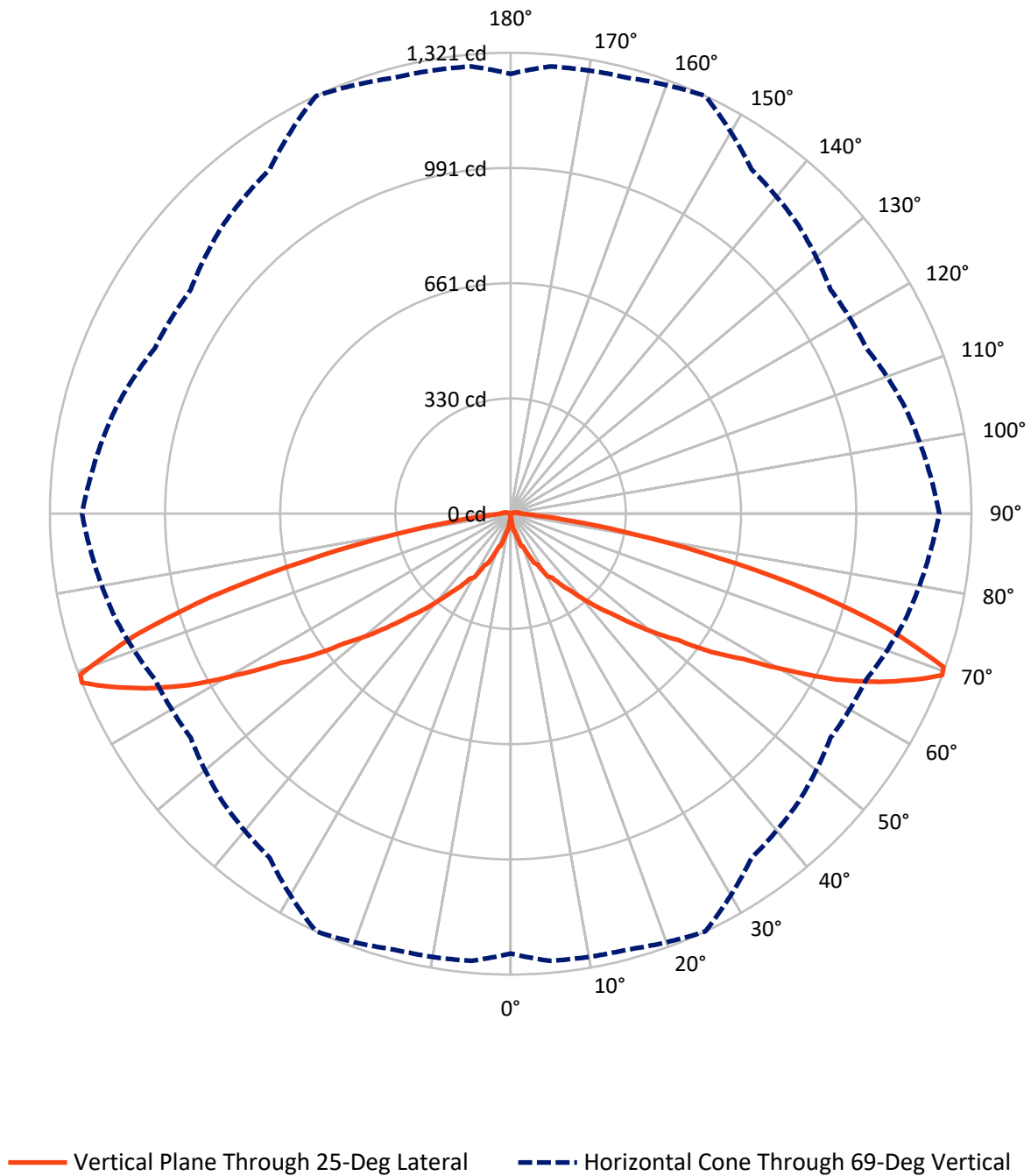


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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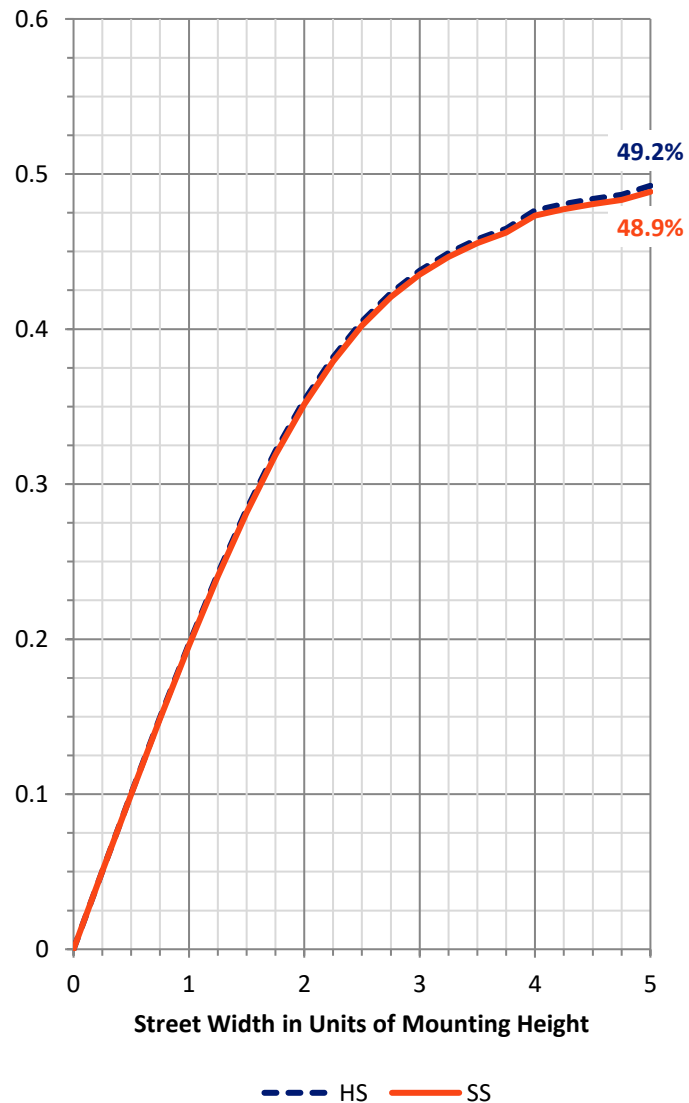
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.2	21.4	1719.6
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1698.2	21.4	1719.6
	% Fixture	49.4	0.6	50.0
Total	Lumens	3396.4	42.8	3439.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	20.3	0.6
20°-30°	75.6	2.2
30°-40°	171.6	5.0
40°-50°	329.0	9.6
50°-60°	634.6	18.5
60°-70°	1091.7	31.7
70°-80°	931.8	27.1
80°-90°	140.0	4.1
90°-100°	22.9	0.7
100°-110°	10.4	0.3
110°-120°	4.1	0.1
120°-130°	2.7	0.1
130°-140°	1.7	0.0
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3396.4	98.8
0°-180°	3439.2	100.0

Coefficient of Utilization



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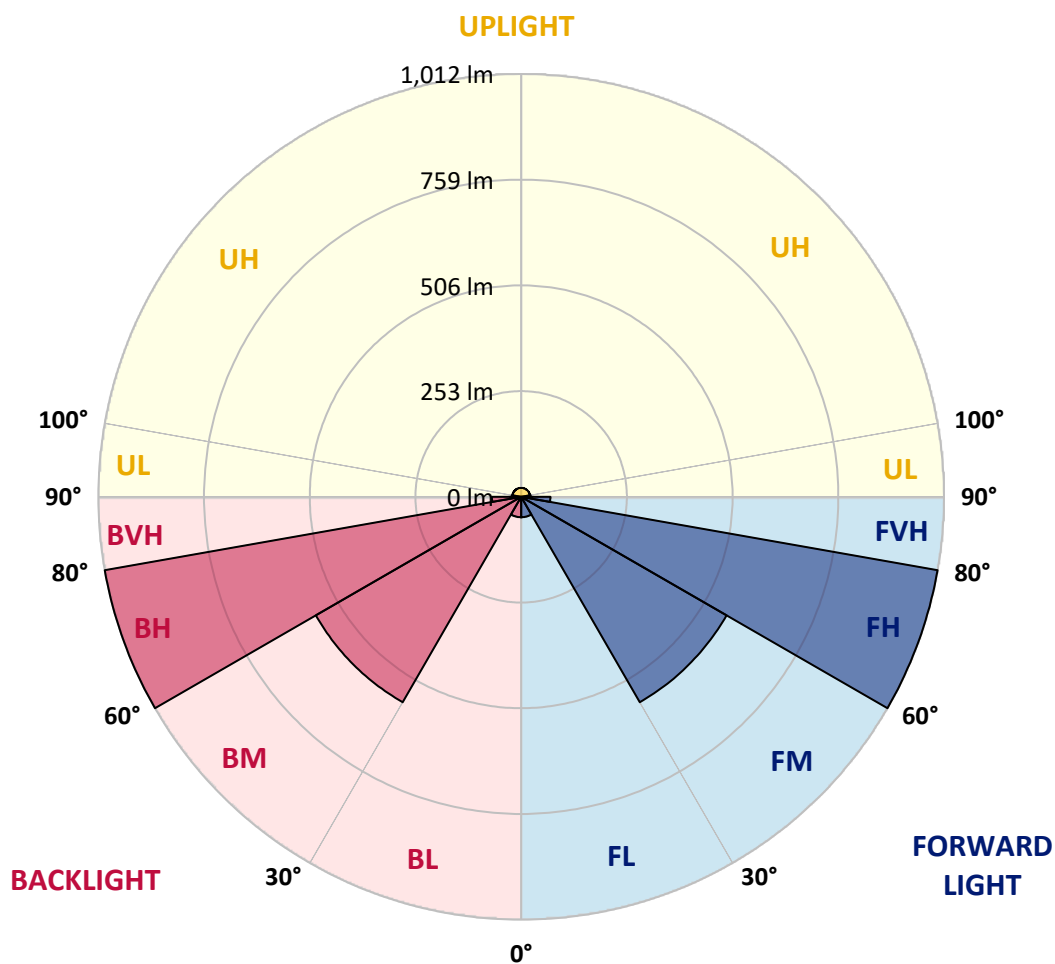
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.9	1.4			
FM	(30°-60°)	567.6	16.5			
FH	(60°-80°)	1011.8	29.4			G1/1800
FVH	(80°-90°)	70.0	2.0			G1/100
BL	(0°-30°)	48.9	1.4	B0/110		
BM	(30°-60°)	567.6	16.5	B1/1000		
BH	(60°-80°)	1011.8	29.4	B3/2500		G1/1800
BVH	(80°-90°)	70.0	2.0			G1/100
UL	(90°-100°)	22.9	0.7		U2/50	
UH	(100°-180°)	21.4	0.6		U2/50	

BUG Rating: B3-U2-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	15.5	15.5	15.5	14.7	14.7	16.3	11.2	8.8	8.4	7.2	7.2
5°	17.5	17.9	16.7	16.0	15.5	16.3	16.7	15.5	9.5	7.6	6.8
7.5°	29.5	31.8	29.1	25.9	24.7	17.1	15.1	16.7	12.7	8.0	7.6
10°	51.8	51.4	52.5	48.9	35.4	27.4	22.7	15.5	18.7	14.3	13.5
12.5°	52.5	51.8	52.2	52.2	50.5	45.3	33.0	36.2	39.0	41.7	40.2
15°	91.6	89.9	81.9	70.8	50.5	61.7	62.5	64.4	58.1	55.8	54.5
17.5°	103.4	102.3	100.7	96.7	88.0	77.2	76.0	76.0	85.5	96.7	90.3
20°	114.6	112.2	101.5	99.8	107.8	97.1	93.5	113.4	122.5	132.2	128.6
22.5°	160.8	165.5	161.9	124.9	116.6	116.6	130.1	135.3	136.1	140.5	137.3
25°	164.8	167.2	163.2	155.2	147.2	136.1	145.3	151.2	175.5	184.2	182.3
27.5°	209.7	211.3	190.2	166.7	168.4	162.8	163.6	186.3	208.5	210.1	218.9
30°	226.1	228.0	217.7	208.9	185.5	185.1	194.2	209.7	236.0	255.1	270.6
32.5°	277.0	268.2	240.0	219.6	209.3	206.1	213.3	242.7	271.4	287.3	306.4
35°	305.7	309.6	303.6	251.9	228.4	240.4	241.9	253.9	280.2	308.0	319.2
37.5°	351.4	352.6	313.2	281.7	251.1	271.4	280.2	280.6	314.4	347.4	356.6
40°	380.8	392.0	366.5	321.9	279.8	292.5	294.1	327.9	359.4	380.8	395.2
42.5°	424.6	424.2	397.1	367.3	312.8	324.7	331.8	344.6	396.0	421.9	436.2
45°	472.7	472.0	447.6	411.4	363.8	352.6	363.4	399.6	454.5	476.0	468.8
47.5°	533.3	536.8	512.5	471.6	408.7	428.6	414.7	463.6	483.4	511.0	528.9
50°	595.8	599.3	569.5	536.4	469.1	470.8	477.5	515.8	547.2	590.5	609.7
52.5°	678.9	682.1	652.6	602.5	549.5	554.7	552.0	571.8	629.9	674.9	668.2
55°	770.0	768.8	733.0	700.4	654.2	636.7	625.9	678.1	712.7	747.4	754.5
57.5°	904.5	890.6	847.6	785.1	734.2	744.5	735.8	750.9	806.6	857.5	871.0
60°	1003.2	1012.0	980.9	910.5	833.7	830.1	837.3	865.9	905.7	937.5	956.3
62.5°	1154.0	1145.7	1107.9	1047.0	977.7	981.7	951.0	973.3	996.9	1041.8	1040.2
65°	1221.7	1219.7	1195.0	1162.8	1100.7	1077.3	1047.4	1058.5	1081.6	1105.9	1142.1
67.5°	1264.7	1289.3	1275.0	1265.5	1177.1	1158.8	1093.9	1111.4	1140.5	1171.9	1197.4
69°	1260.7	1286.6	1293.3	1321.1	1204.5	1167.9	1119.8	1124.9	1171.6	1208.9	1228.9
70°	1237.6	1270.6	1271.0	1316.7	1203.4	1197.8	1131.0	1123.0	1179.5	1215.3	1239.6
72.5°	1093.1	1114.6	1130.2	1136.1	1136.5	1198.6	1122.2	1059.7	1109.1	1181.1	1180.3
75°	845.3	869.1	900.9	890.2	978.6	1088.0	1014.8	906.9	912.9	952.7	962.2
77.5°	532.0	534.4	575.8	608.9	754.1	867.2	793.1	645.9	578.2	579.4	602.1
80°	304.0	304.8	327.9	362.1	464.0	594.9	488.7	363.8	284.5	280.6	278.1
82.5°	145.3	142.1	150.8	178.7	240.8	300.4	244.4	138.9	111.0	122.1	123.8
85°	52.2	61.7	70.1	80.0	110.6	115.8	85.9	71.2	73.2	68.8	70.8
87.5°	32.6	33.5	39.8	43.0	46.1	48.2	53.7	48.2	48.9	40.6	38.2
90°	23.1	23.5	28.6	29.5	31.8	32.2	31.0	31.0	29.9	23.5	24.2
92.5°	17.9	17.5	22.3	25.1	27.4	25.9	27.1	23.5	22.7	17.1	16.7
95°	22.3	22.3	24.2	25.5	22.7	19.1	21.9	21.1	20.3	15.1	14.7
97.5°	12.7	13.5	18.3	19.5	19.1	15.5	18.7	19.1	18.3	13.1	11.2
100°	11.2	12.4	16.3	17.5	16.7	13.1	16.7	17.5	16.3	11.6	10.3
102.5°	9.9	10.7	13.5	15.1	13.5	9.9	13.5	14.7	13.5	9.5	8.8
105°	8.4	8.8	9.5	11.2	9.5	7.6	9.9	10.7	8.8	7.6	7.2
107.5°	7.2	7.2	6.8	7.6	6.8	5.9	7.2	7.6	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	6.8	6.3	5.2	5.2	5.2	4.8	5.2	5.5	5.2	5.9	5.9
112.5°	5.9	5.5	4.4	4.0	4.0	4.0	4.4	4.4	4.4	5.5	5.5
115°	5.5	5.2	4.0	3.2	3.6	3.6	3.6	3.6	4.0	5.2	5.5
117.5°	5.5	5.2	3.6	3.2	2.8	2.8	3.2	3.2	4.0	5.2	5.2
120°	5.2	4.8	3.6	2.8	2.4	2.4	2.8	3.2	4.0	5.2	5.2
122.5°	4.8	4.8	3.2	2.4	2.4	2.4	2.4	2.8	3.6	4.8	4.8
125°	4.4	4.4	3.2	2.4	1.9	1.9	2.4	2.8	3.6	4.8	4.8
127.5°	4.4	4.0	3.2	1.9	1.9	1.9	1.9	2.4	3.2	4.4	4.8
130°	4.0	4.0	2.8	1.9	1.6	1.6	1.9	2.4	3.2	4.0	4.4
132.5°	4.0	3.6	2.8	1.6	1.6	1.6	1.6	1.9	2.8	3.6	4.0
135°	3.2	3.2	2.4	1.6	1.2	1.2	1.6	1.9	2.4	3.2	3.6
137.5°	3.2	2.8	2.4	1.6	1.2	1.2	1.2	1.6	2.4	2.8	3.2
140°	2.8	2.8	1.9	1.6	1.2	1.2	1.2	1.6	1.9	2.4	2.8
142.5°	2.4	2.4	1.9	1.6	1.2	0.8	1.2	1.2	1.6	1.9	1.9
145°	2.4	2.4	1.9	1.2	0.8	0.8	0.8	1.2	1.6	1.6	1.9
147.5°	1.9	1.9	1.6	1.2	0.8	0.4	0.8	1.2	1.2	1.6	1.6
150°	1.6	1.6	1.2	0.8	0.4	0.0	0.4	0.8	1.2	1.2	1.2
152.5°	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.4	0.8	0.8	1.2
155°	0.8	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	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

(END OF REPORT)