

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: P240902

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240902
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3251.6 lumens
Efficiency: N/A
Efficacy: 104.9 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: B2 - 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

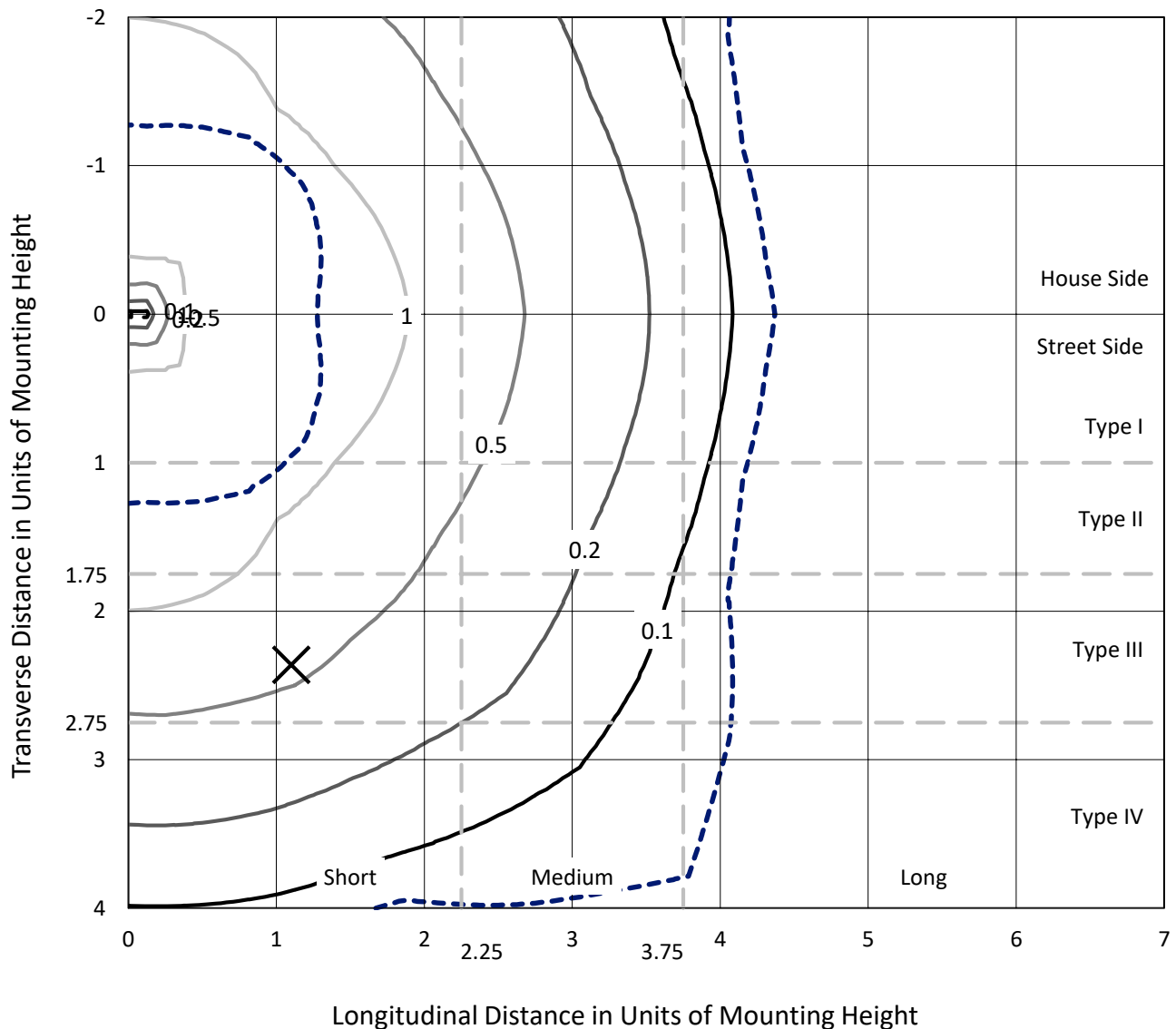


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

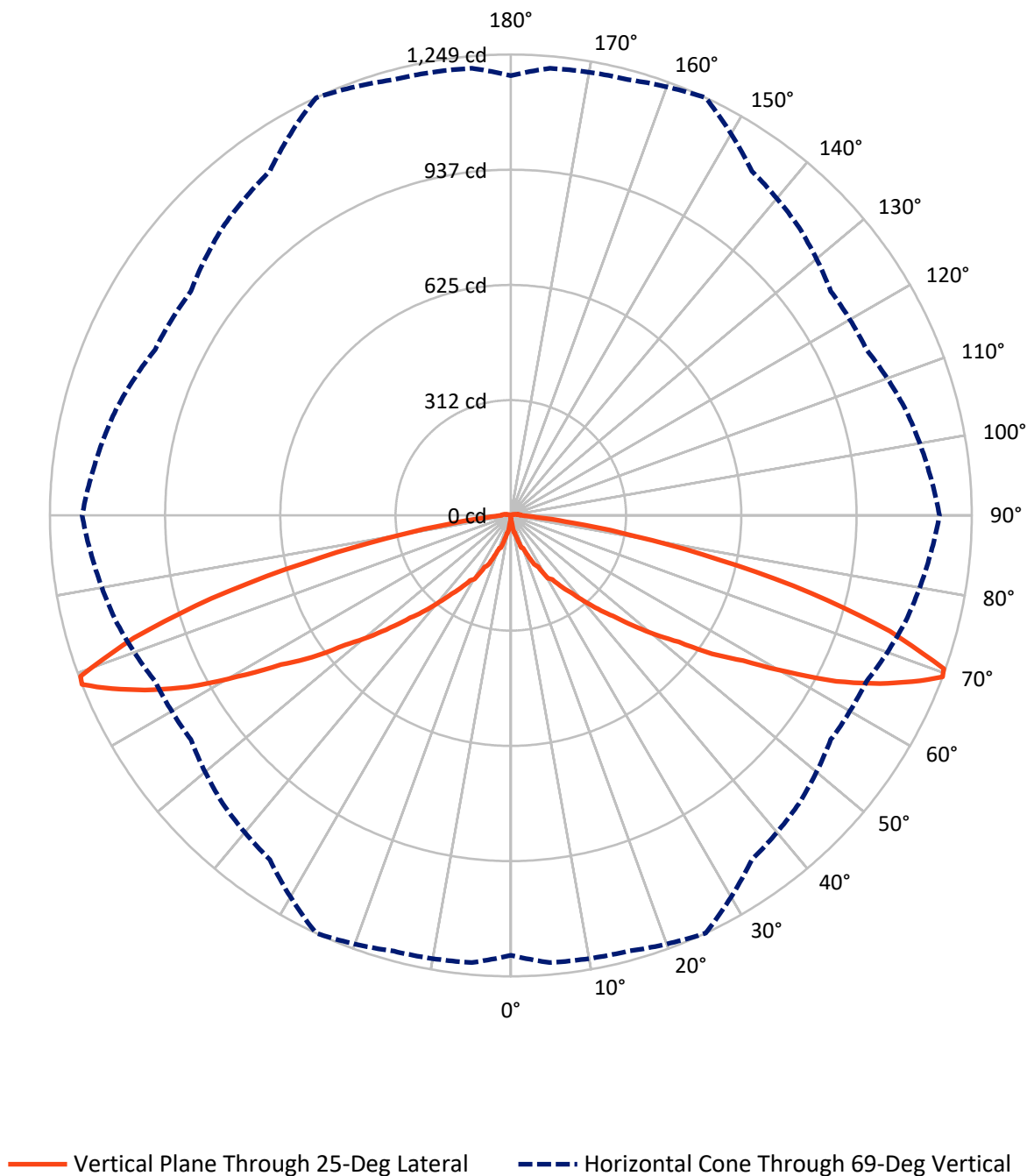


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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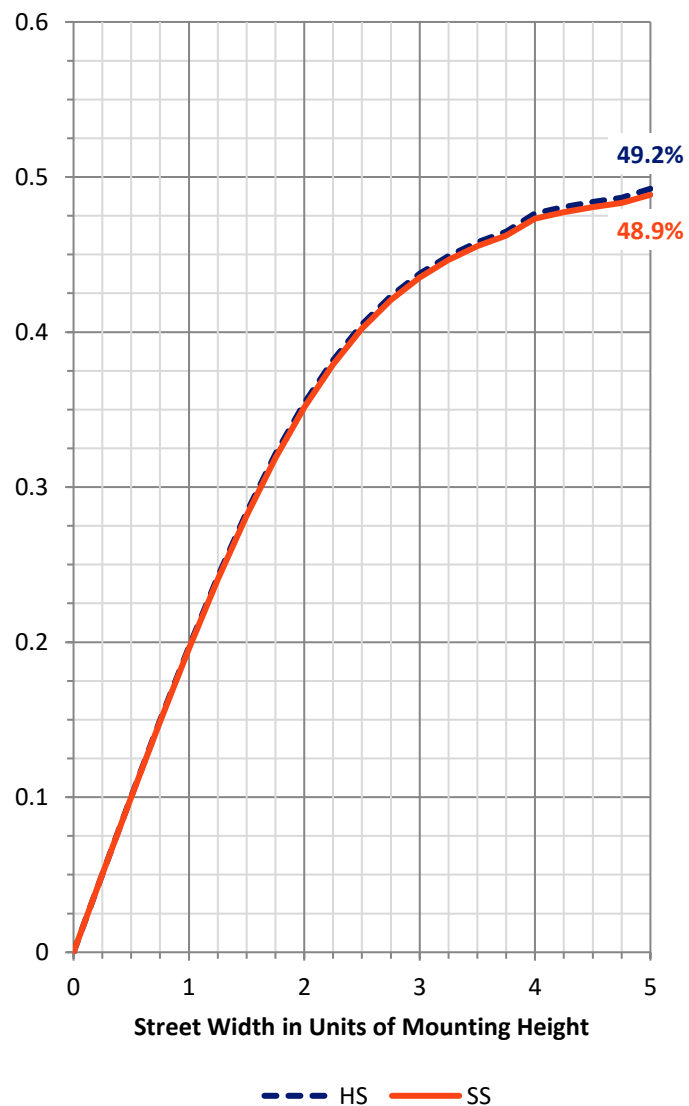
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.5	20.3	1625.8
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1605.5	20.3	1625.8
	% Fixture	49.4	0.6	50.0
Total	Lumens	3211.1	40.5	3251.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.1
10°-20°	19.2	0.6
20°-30°	71.5	2.2
30°-40°	162.2	5.0
40°-50°	311.0	9.6
50°-60°	600.0	18.5
60°-70°	1032.1	31.7
70°-80°	881.0	27.1
80°-90°	132.3	4.1
90°-100°	21.6	0.7
100°-110°	9.8	0.3
110°-120°	3.9	0.1
120°-130°	2.6	0.1
130°-140°	1.6	0.0
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3211.1	98.8
0°-180°	3251.6	100.0

Coefficient of Utilization



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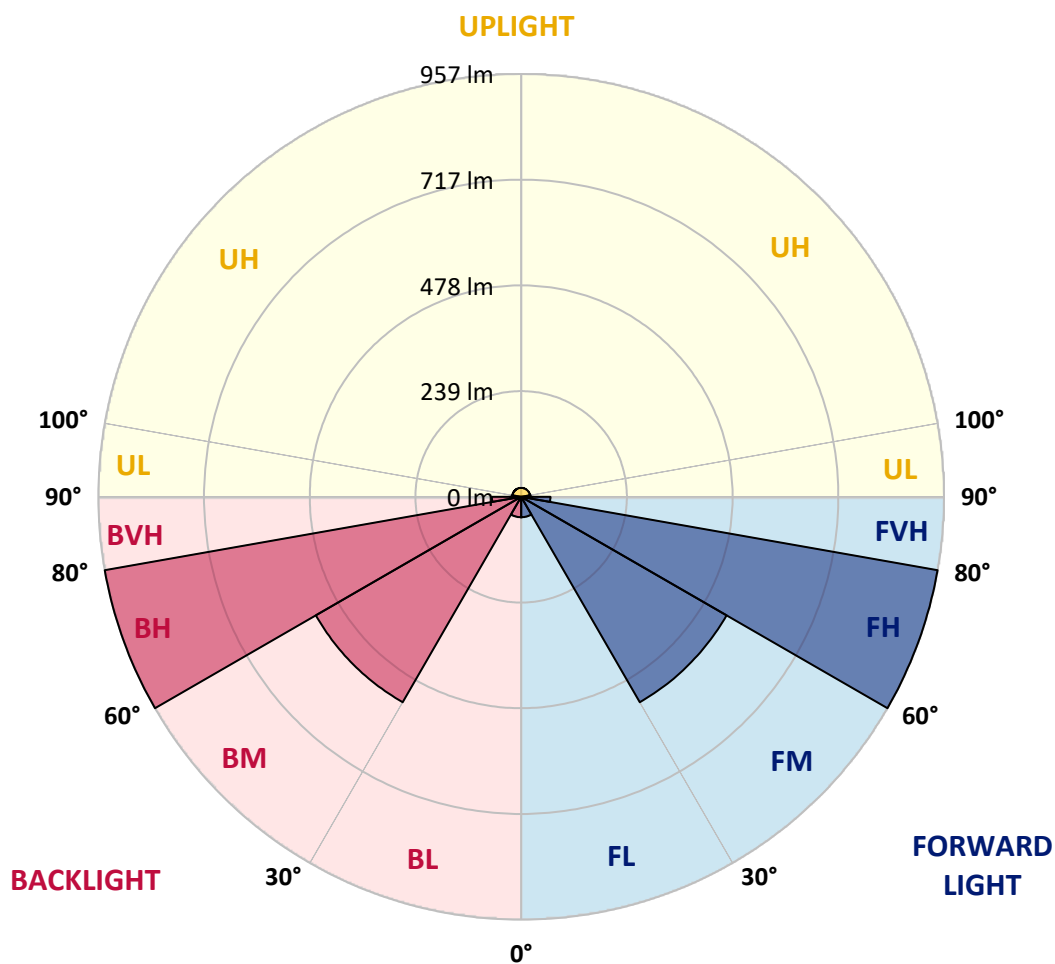
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	46.2	1.4			
FM	(30°-60°)	536.6	16.5			
FH	(60°-80°)	956.6	29.4			G1/1800
FVH	(80°-90°)	66.2	2.0			G1/100
BL	(0°-30°)	46.2	1.4	B0/110		
BM	(30°-60°)	536.6	16.5	B1/1000		
BH	(60°-80°)	956.6	29.4	B2/1000		G1/1800
BVH	(80°-90°)	66.2	2.0			G1/100
UL	(90°-100°)	21.6	0.7		U2/50	
UH	(100°-180°)	20.3	0.6		U2/50	

BUG Rating: B2-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	14.6	14.6	14.6	13.8	13.8	15.4	10.5	8.3	7.8	6.8	6.8
5°	16.6	16.9	15.9	15.1	14.6	15.4	15.9	14.6	9.1	7.1	6.4
7.5°	27.9	30.0	27.5	24.5	23.3	16.2	14.3	15.9	12.0	7.5	7.1
10°	48.9	48.5	49.7	46.3	33.5	26.0	21.5	14.6	17.7	13.5	12.8
12.5°	49.7	48.9	49.2	49.2	47.7	42.9	31.2	34.2	36.8	39.6	38.0
15°	86.6	85.0	77.5	66.9	47.7	58.4	59.1	60.9	54.9	52.7	51.6
17.5°	97.8	96.7	95.2	91.4	83.1	72.9	71.9	71.9	80.9	91.4	85.4
20°	108.3	106.1	95.9	94.4	101.9	91.8	88.4	107.2	116.0	124.9	121.5
22.5°	152.0	156.5	153.1	118.1	110.3	110.3	123.0	128.0	128.7	132.9	129.8
25°	155.8	158.0	154.3	146.7	139.2	128.7	137.3	143.0	166.0	174.2	172.3
27.5°	198.3	199.7	179.8	157.7	159.2	153.8	154.6	176.1	197.1	198.7	206.9
30°	213.7	215.6	205.9	197.5	175.4	175.0	183.5	198.3	223.1	241.1	255.8
32.5°	261.9	253.6	226.8	207.7	197.9	194.9	201.7	229.6	256.5	271.6	289.6
35°	289.0	292.7	287.1	238.1	216.0	227.3	228.8	240.1	264.9	291.1	301.8
37.5°	332.2	333.3	296.1	266.4	237.4	256.5	264.9	265.3	297.1	328.5	337.1
40°	360.0	370.6	346.5	304.4	264.5	276.5	278.1	310.0	339.7	360.0	373.5
42.5°	401.4	401.1	375.6	347.2	295.8	307.0	313.8	325.8	374.3	398.8	412.4
45°	447.0	446.3	423.3	389.1	343.8	333.3	343.5	377.7	429.6	449.9	443.1
47.5°	504.1	507.5	484.6	445.9	386.3	405.3	392.0	438.3	457.1	483.0	500.0
50°	563.2	566.6	538.4	507.2	443.6	445.1	451.5	487.7	517.4	558.4	576.4
52.5°	641.9	644.8	617.0	569.6	519.5	524.5	521.8	540.7	595.6	638.1	631.7
55°	728.0	726.9	693.0	662.2	618.5	602.0	591.8	641.2	673.8	706.6	713.4
57.5°	855.2	842.1	801.4	742.3	694.2	703.9	695.7	709.9	762.6	810.8	823.6
60°	948.5	956.8	927.4	860.9	788.2	784.8	791.6	818.7	856.3	886.4	904.1
62.5°	1091.1	1083.2	1047.5	989.9	924.5	928.1	899.2	920.3	942.5	985.0	983.5
65°	1155.0	1153.1	1129.8	1099.3	1040.7	1018.6	990.2	1000.9	1022.5	1045.5	1079.8
67.5°	1195.7	1219.0	1205.4	1196.4	1113.0	1095.6	1034.2	1050.8	1078.3	1108.0	1132.0
69°	1191.9	1216.4	1222.7	1249.1	1138.8	1104.3	1058.7	1063.6	1107.7	1143.0	1161.8
70°	1170.0	1201.3	1201.7	1244.9	1137.7	1132.5	1069.2	1061.8	1115.1	1149.0	1172.0
72.5°	1033.5	1053.8	1068.4	1074.1	1074.6	1133.2	1061.0	1001.9	1048.6	1116.6	1115.9
75°	799.1	821.7	851.7	841.7	925.2	1028.5	959.4	857.4	863.0	900.8	909.7
77.5°	503.0	505.4	544.4	575.7	712.9	819.8	749.8	610.6	546.7	547.8	569.2
80°	287.5	288.2	310.0	342.4	438.6	562.4	462.0	343.8	269.0	265.3	263.0
82.5°	137.3	134.3	142.6	169.0	227.6	284.1	231.0	131.3	105.0	115.5	117.0
85°	49.2	58.4	66.2	75.6	104.6	109.5	81.3	67.3	69.3	65.1	66.9
87.5°	30.8	31.5	37.5	40.7	43.6	45.6	50.8	45.6	46.3	38.4	36.2
90°	21.9	22.2	27.1	27.9	30.0	30.5	29.4	29.4	28.2	22.2	23.0
92.5°	16.9	16.6	21.1	23.7	26.0	24.5	25.5	22.2	21.5	16.2	15.9
95°	21.1	21.1	23.0	24.0	21.5	18.0	20.6	20.0	19.2	14.3	13.8
97.5°	12.0	12.8	17.3	18.5	18.0	14.6	17.7	18.0	17.3	12.4	10.5
100°	10.5	11.7	15.4	16.6	15.9	12.4	15.9	16.6	15.4	10.9	9.9
102.5°	9.4	10.2	12.8	14.3	12.8	9.4	12.8	13.8	12.8	9.1	8.3
105°	7.8	8.3	9.1	10.5	9.1	7.1	9.4	10.2	8.3	7.1	6.8
107.5°	6.8	6.8	6.4	7.1	6.4	5.7	6.8	7.1	6.0	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	6.4	6.0	4.9	4.9	4.9	4.5	4.9	5.3	4.9	5.7	5.7
112.5°	5.7	5.3	4.2	3.8	3.8	3.8	4.2	4.2	4.2	5.3	5.3
115°	5.3	4.9	3.8	3.1	3.4	3.4	3.4	3.4	3.8	4.9	5.3
117.5°	5.3	4.9	3.4	3.1	2.6	2.6	3.1	3.1	3.8	4.9	4.9
120°	4.9	4.5	3.4	2.6	2.3	2.3	2.6	3.1	3.8	4.9	4.9
122.5°	4.5	4.5	3.1	2.3	2.3	2.3	2.3	2.6	3.4	4.5	4.5
125°	4.2	4.2	3.1	2.3	1.8	1.8	2.3	2.6	3.4	4.5	4.5
127.5°	4.2	3.8	3.1	1.8	1.8	1.8	1.8	2.3	3.1	4.2	4.5
130°	3.8	3.8	2.6	1.8	1.5	1.5	1.8	2.3	3.1	3.8	4.2
132.5°	3.8	3.4	2.6	1.5	1.5	1.5	1.5	1.8	2.6	3.4	3.8
135°	3.1	3.1	2.3	1.5	1.1	1.1	1.5	1.8	2.3	3.1	3.4
137.5°	3.1	2.6	2.3	1.5	1.1	1.1	1.1	1.5	2.3	2.6	3.1
140°	2.6	2.6	1.8	1.5	1.1	1.1	1.1	1.5	1.8	2.3	2.6
142.5°	2.3	2.3	1.8	1.5	1.1	0.8	1.1	1.1	1.5	1.8	1.8
145°	2.3	2.3	1.8	1.1	0.8	0.8	0.8	1.1	1.5	1.5	1.8
147.5°	1.8	1.8	1.5	1.1	0.8	0.3	0.8	1.1	1.1	1.5	1.5
150°	1.5	1.5	1.1	0.8	0.3	0.0	0.3	0.8	1.1	1.1	1.1
152.5°	1.1	1.1	0.8	0.3	0.0	0.0	0.0	0.3	0.8	0.8	1.1
155°	0.8	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	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)