

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: P240901

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240901
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-AF24-20-D-U-5WQ-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA 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: 2322.8 lumens
Efficiency: N/A
Efficacy: 110.6 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): 21
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



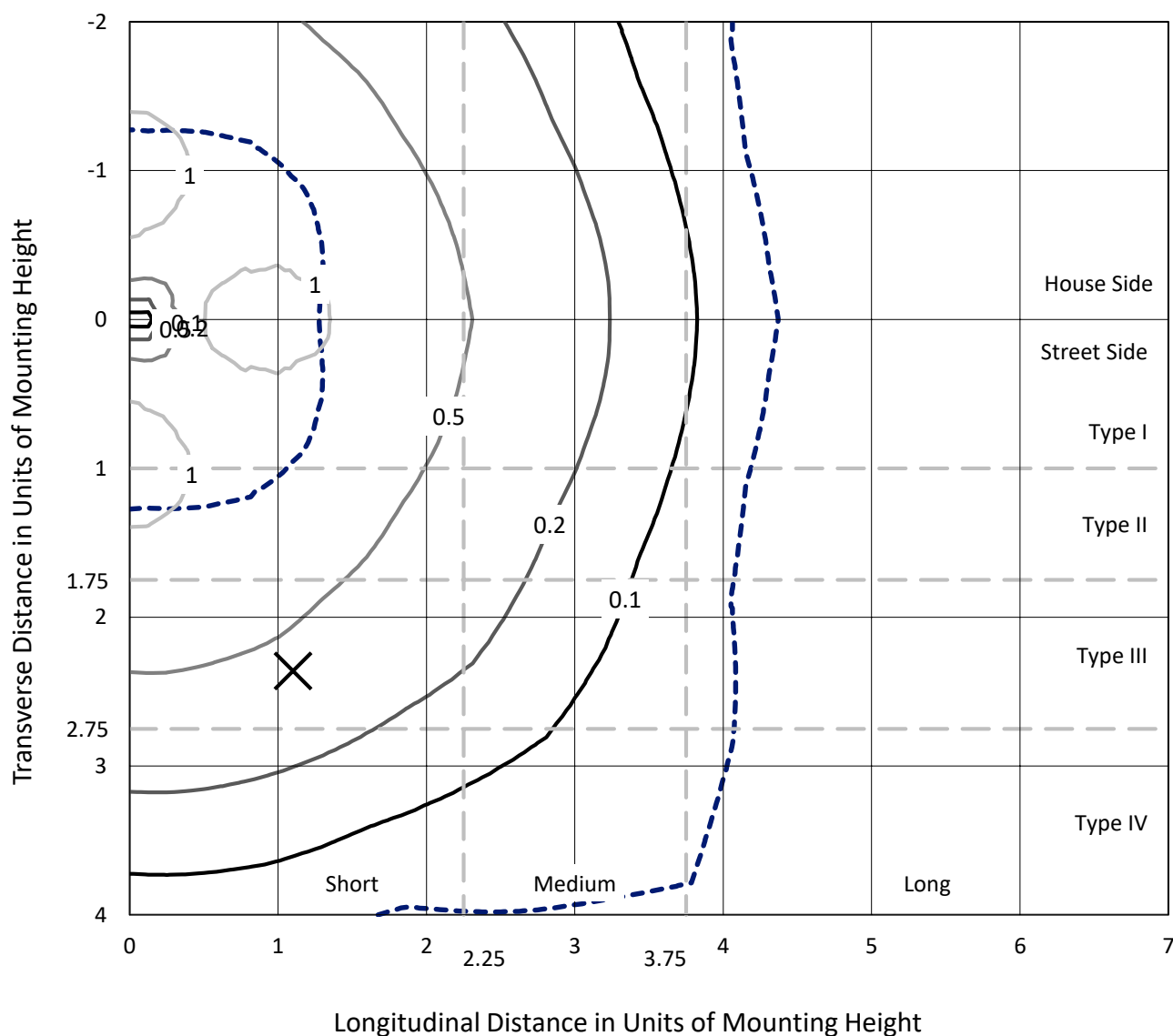
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

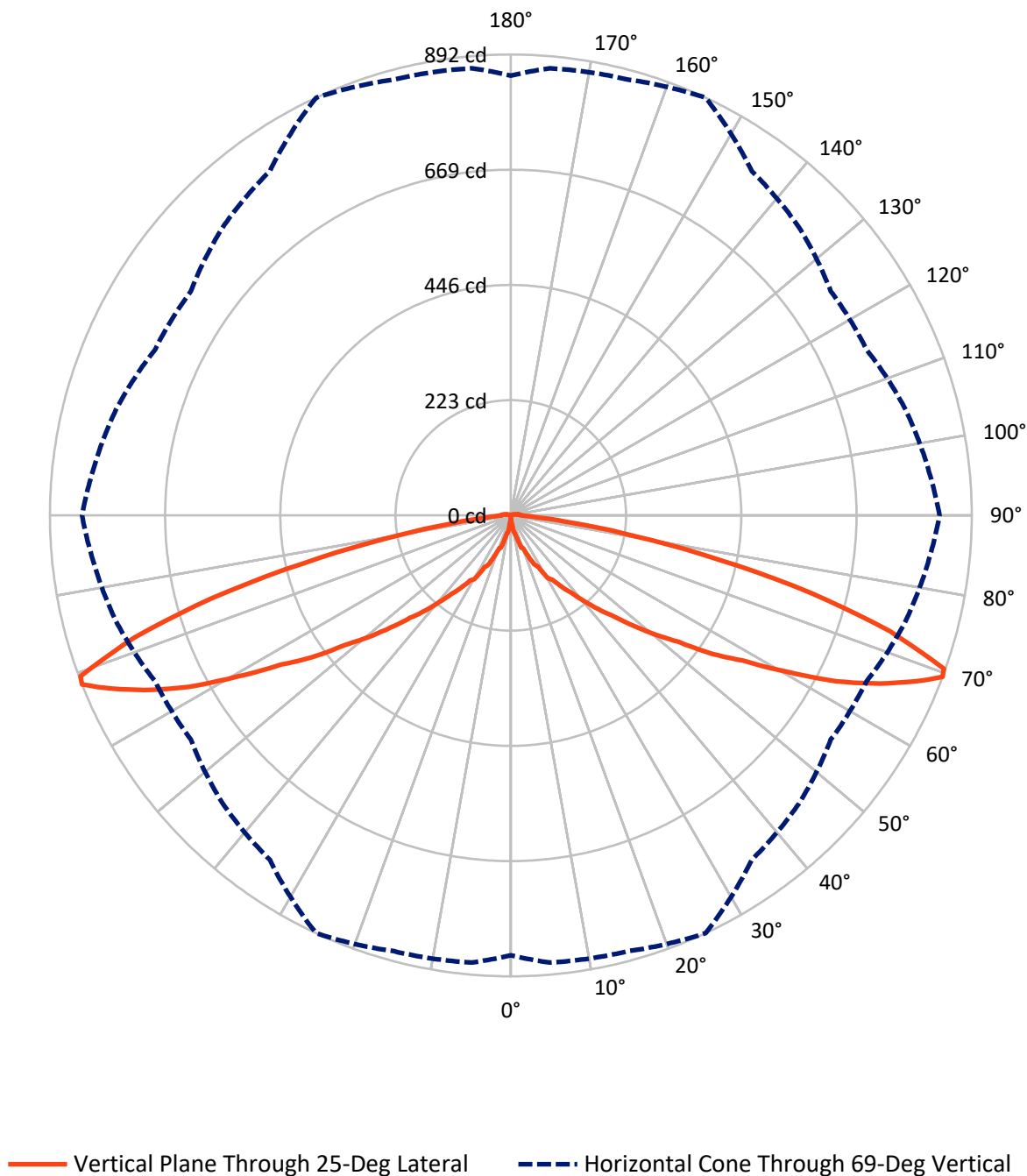


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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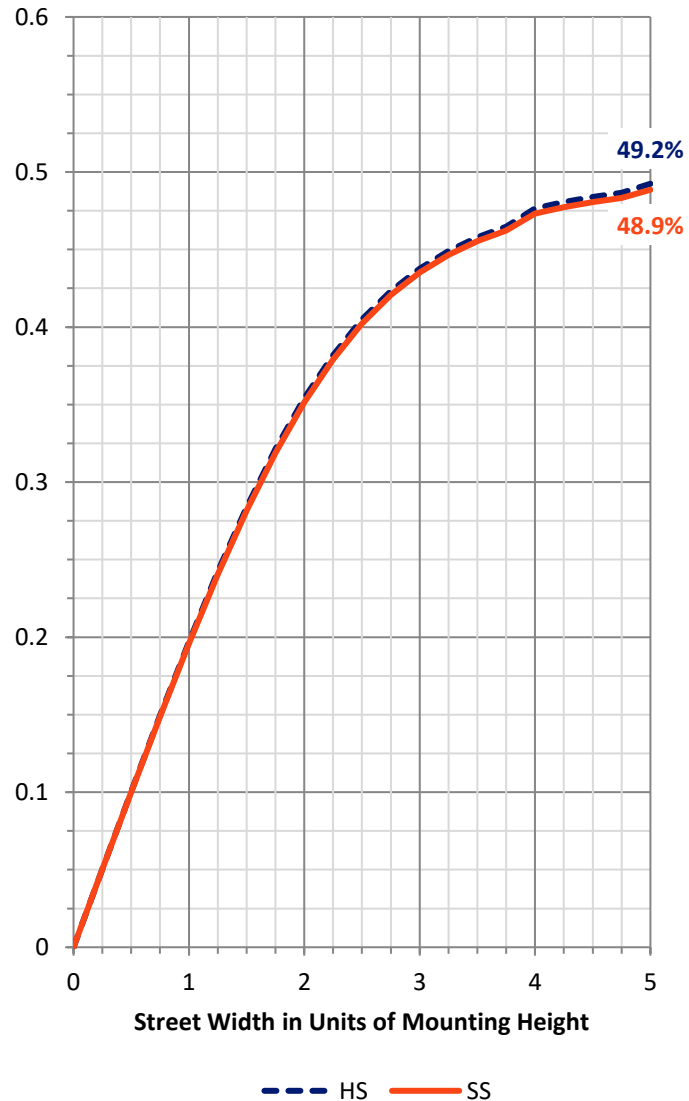
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.0	14.4	1161.4
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1147.0	14.4	1161.4
	% Fixture	49.4	0.6	50.0
Total	Lumens	2293.9	28.8	2322.8
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.1
10°-20°	13.7	0.6
20°-30°	51.0	2.2
30°-40°	115.9	5.0
40°-50°	222.2	9.6
50°-60°	428.6	18.5
60°-70°	737.3	31.7
70°-80°	629.4	27.1
80°-90°	94.5	4.1
90°-100°	15.4	0.7
100°-110°	7.0	0.3
110°-120°	2.8	0.1
120°-130°	1.8	0.1
130°-140°	1.1	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2293.9	98.8
0°-180°	2322.8	100.0

Coefficient of Utilization



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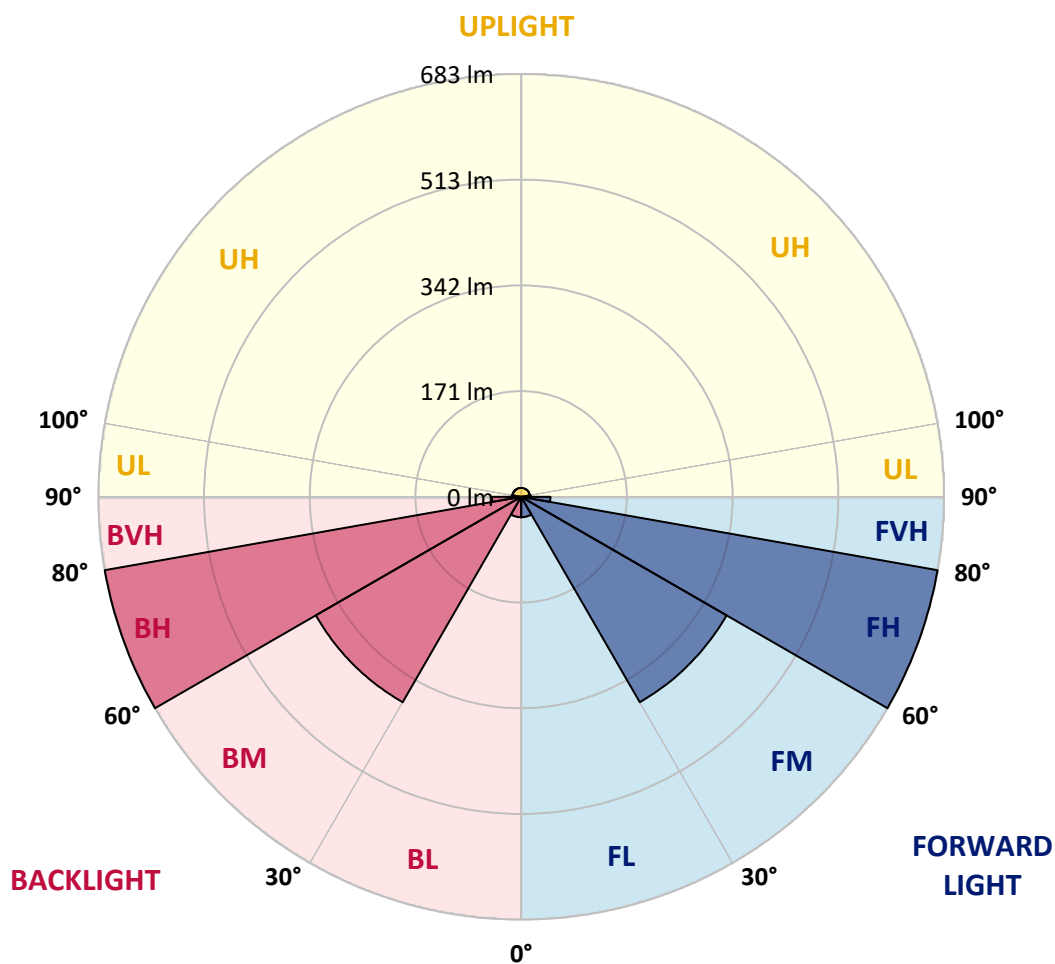
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.0	1.4			
FM	(30°-60°)	383.3	16.5			
FH	(60°-80°)	683.3	29.4			G1/1800
FVH	(80°-90°)	47.3	2.0			G1/100
BL	(0°-30°)	33.0	1.4	B0/110		
BM	(30°-60°)	383.3	16.5	B1/1000		
BH	(60°-80°)	683.3	29.4	B2/1000		G1/1800
BVH	(80°-90°)	47.3	2.0			G1/100
UL	(90°-100°)	15.4	0.7		U2/50	
UH	(100°-180°)	14.4	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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	10.5	10.5	10.5	10.0	10.0	11.0	7.5	5.9	5.7	4.8	4.8
5°	11.8	12.1	11.3	10.7	10.5	11.0	11.3	10.5	6.4	5.1	4.6
7.5°	19.8	21.6	19.6	17.5	16.7	11.6	10.2	11.3	8.6	5.4	5.1
10°	35.0	34.6	35.5	33.1	23.9	18.6	15.3	10.5	12.7	9.8	9.2
12.5°	35.5	35.0	35.2	35.2	34.1	30.6	22.3	24.5	26.3	28.2	27.1
15°	61.8	60.7	55.4	47.8	34.1	41.6	42.2	43.6	39.3	37.5	36.8
17.5°	69.9	69.1	68.0	65.3	59.4	52.1	51.4	51.4	57.8	65.3	60.9
20°	77.3	75.8	68.5	67.4	72.8	65.5	63.2	76.6	82.8	89.3	86.9
22.5°	108.6	111.8	109.4	84.3	78.7	78.7	87.9	91.3	91.9	94.8	92.8
25°	111.2	112.9	110.3	104.8	99.4	91.9	98.2	102.1	118.5	124.4	123.1
27.5°	141.6	142.7	128.5	112.6	113.7	110.0	110.5	125.7	140.8	141.9	147.8
30°	152.6	154.0	147.1	141.1	125.2	125.0	131.1	141.6	159.4	172.3	182.8
32.5°	187.1	181.2	162.0	148.4	141.4	139.2	144.1	164.0	183.3	194.1	206.9
35°	206.4	209.1	205.1	170.1	154.3	162.4	163.5	171.4	189.2	208.0	215.6
37.5°	237.3	238.1	211.5	190.3	169.6	183.3	189.2	189.4	212.3	234.7	240.8
40°	257.2	264.7	247.6	217.4	188.9	197.5	198.7	221.5	242.7	257.2	266.9
42.5°	286.8	286.5	268.2	248.1	211.3	219.3	224.2	232.7	267.4	284.9	294.6
45°	319.2	318.8	302.3	277.9	245.7	238.1	245.4	269.9	306.9	321.4	316.7
47.5°	360.1	362.5	346.2	318.5	276.0	289.4	280.0	313.1	326.5	345.2	357.2
50°	402.4	404.8	384.6	362.3	316.9	318.0	322.6	348.3	369.6	398.9	411.8
52.5°	458.6	460.6	440.8	406.9	371.2	374.6	372.8	386.2	425.4	455.8	451.2
55°	520.1	519.3	495.1	473.1	441.9	430.1	422.9	458.1	481.4	504.8	509.5
57.5°	610.9	601.5	572.5	530.4	495.9	502.9	496.9	507.2	544.7	579.2	588.4
60°	677.6	683.5	662.5	614.9	563.1	560.6	565.5	584.9	611.8	633.2	645.8
62.5°	779.4	773.8	748.3	707.1	660.4	663.1	642.3	657.4	673.2	703.6	702.5
65°	825.1	823.9	807.1	785.3	743.4	727.5	707.5	714.9	730.5	746.9	771.4
67.5°	854.2	870.8	861.2	854.7	795.1	782.7	738.8	750.7	770.3	791.6	808.7
69°	851.4	868.9	873.5	892.3	813.6	788.9	756.3	759.8	791.2	816.5	830.0
70°	835.9	858.2	858.4	889.4	812.8	808.9	763.8	758.5	796.6	820.9	837.3
72.5°	738.4	752.8	763.2	767.3	767.6	809.5	757.9	715.7	749.1	797.7	797.1
75°	570.9	587.0	608.5	601.3	660.9	734.9	685.4	612.5	616.6	643.4	649.9
77.5°	359.4	361.0	389.0	411.3	509.3	585.6	535.7	436.3	390.5	391.3	406.7
80°	205.3	205.9	221.5	244.6	313.3	401.8	330.1	245.7	192.2	189.4	187.9
82.5°	98.2	95.9	101.8	120.7	162.6	202.9	165.0	93.9	75.0	82.5	83.6
85°	35.2	41.6	47.3	54.0	74.8	78.2	58.0	48.1	49.5	46.6	47.8
87.5°	22.1	22.6	26.9	29.1	31.1	32.6	36.3	32.6	33.1	27.5	25.7
90°	15.7	15.9	19.3	19.8	21.6	21.8	21.0	21.0	20.1	15.9	16.4
92.5°	12.1	11.8	15.1	16.9	18.6	17.5	18.2	15.9	15.3	11.6	11.3
95°	15.1	15.1	16.4	17.2	15.3	12.9	14.7	14.2	13.6	10.2	10.0
97.5°	8.6	9.2	12.3	13.2	12.9	10.5	12.7	12.9	12.3	8.8	7.5
100°	7.5	8.3	11.0	11.8	11.3	8.8	11.3	11.8	11.0	7.7	7.0
102.5°	6.7	7.2	9.2	10.2	9.2	6.7	9.2	10.0	9.2	6.4	5.9
105°	5.7	5.9	6.4	7.5	6.4	5.1	6.7	7.2	5.9	5.1	4.8
107.5°	4.8	4.8	4.6	5.1	4.6	4.1	4.8	5.1	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	4.6	4.3	3.5	3.5	3.5	3.3	3.5	3.8	3.5	4.1	4.1
112.5°	4.1	3.8	2.9	2.7	2.7	2.7	2.9	2.9	2.9	3.8	3.8
115°	3.8	3.5	2.7	2.1	2.4	2.4	2.4	2.4	2.7	3.5	3.8
117.5°	3.8	3.5	2.4	2.1	1.8	1.8	2.1	2.1	2.7	3.5	3.5
120°	3.5	3.3	2.4	1.8	1.6	1.6	1.8	2.1	2.7	3.5	3.5
122.5°	3.3	3.3	2.1	1.6	1.6	1.6	1.6	1.8	2.4	3.3	3.3
125°	2.9	2.9	2.1	1.6	1.3	1.3	1.6	1.8	2.4	3.3	3.3
127.5°	2.9	2.7	2.1	1.3	1.3	1.3	1.3	1.6	2.1	2.9	3.3
130°	2.7	2.7	1.8	1.3	1.1	1.1	1.3	1.6	2.1	2.7	2.9
132.5°	2.7	2.4	1.8	1.1	1.1	1.1	1.1	1.3	1.8	2.4	2.7
135°	2.1	2.1	1.6	1.1	0.8	0.8	1.1	1.3	1.6	2.1	2.4
137.5°	2.1	1.8	1.6	1.1	0.8	0.8	0.8	1.1	1.6	1.8	2.1
140°	1.8	1.8	1.3	1.1	0.8	0.8	0.8	1.1	1.3	1.6	1.8
142.5°	1.6	1.6	1.3	1.1	0.8	0.5	0.8	0.8	1.1	1.3	1.3
145°	1.6	1.6	1.3	0.8	0.5	0.5	0.5	0.8	1.1	1.1	1.3
147.5°	1.3	1.3	1.1	0.8	0.5	0.2	0.5	0.8	0.8	1.1	1.1
150°	1.1	1.1	0.8	0.5	0.2	0.0	0.2	0.5	0.8	0.8	0.8
152.5°	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.8
155°	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	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)