

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: P240910

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240910
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2457.1 lumens
Efficiency: N/A
Efficacy: 117.0 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



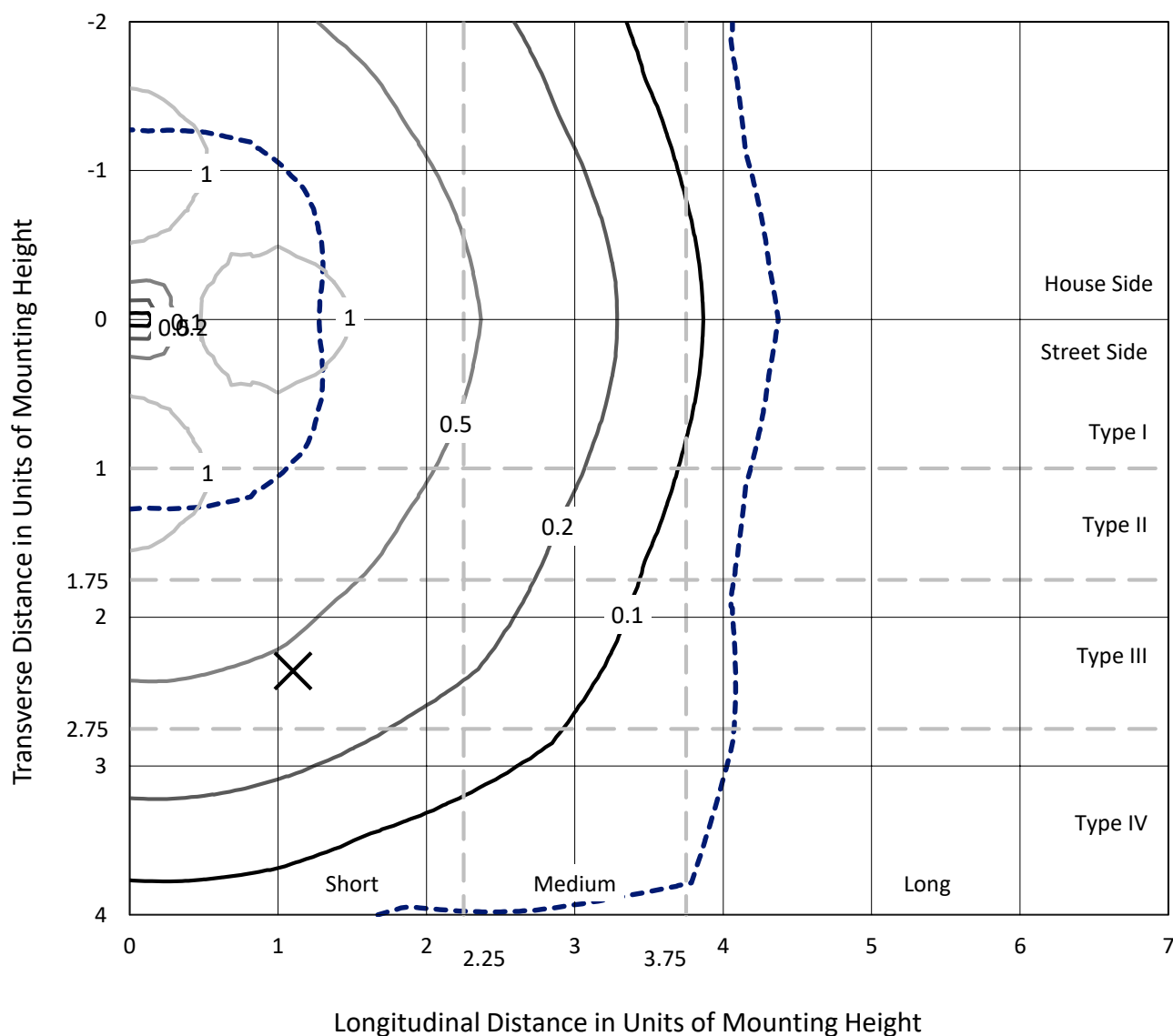
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

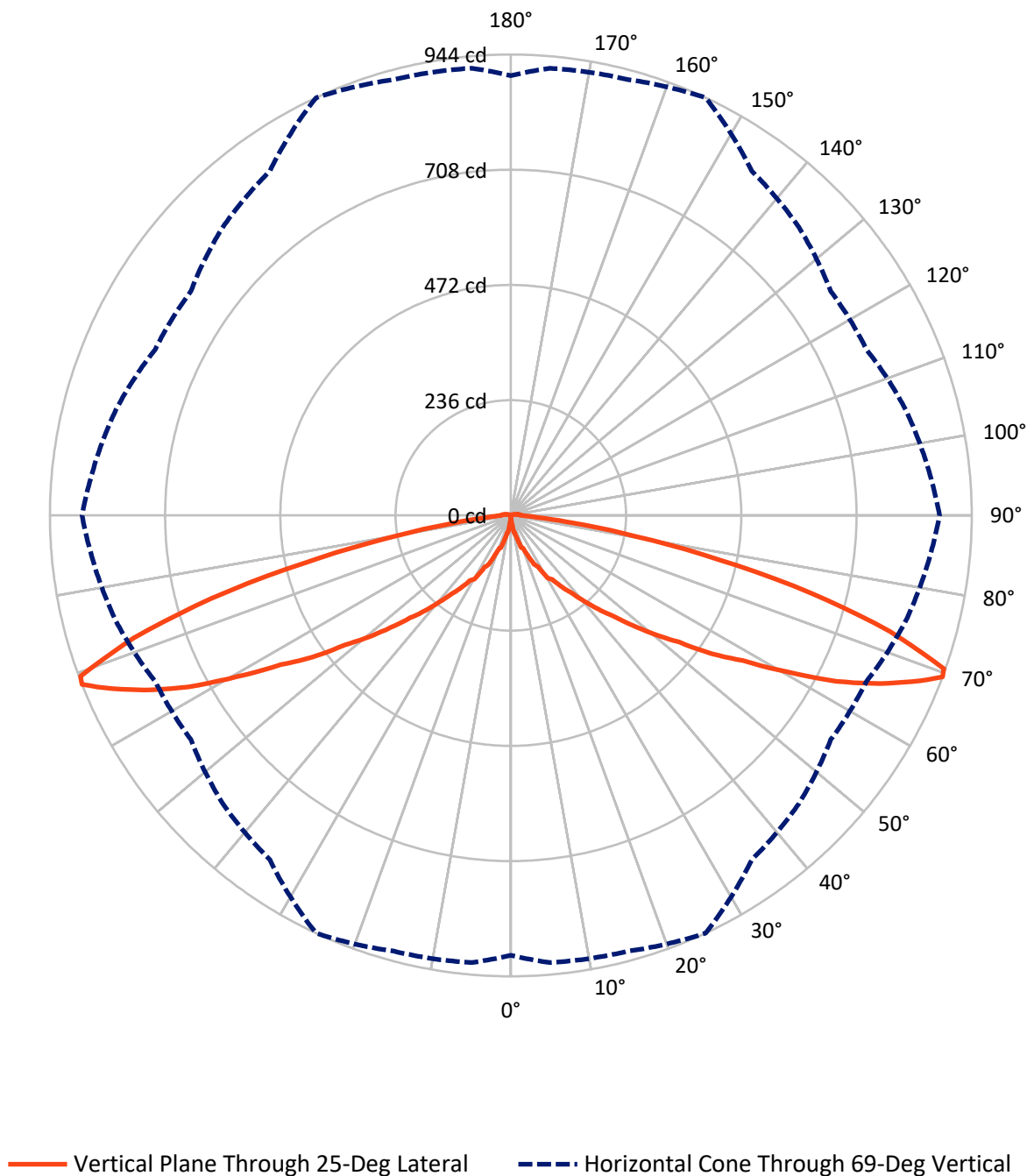


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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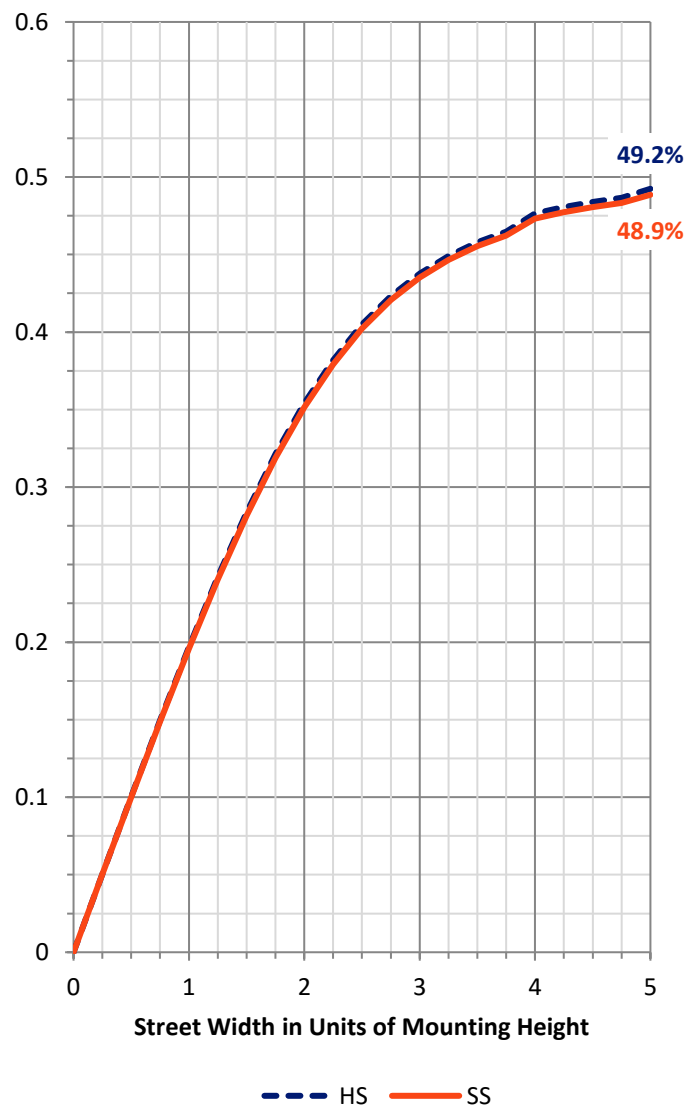
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1213.3	15.3	1228.6
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1213.3	15.3	1228.6
	% Fixture	49.4	0.6	50.0
Total	Lumens	2426.6	30.6	2457.1
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.1
10°-20°	14.5	0.6
20°-30°	54.0	2.2
30°-40°	122.6	5.0
40°-50°	235.0	9.6
50°-60°	453.4	18.5
60°-70°	780.0	31.7
70°-80°	665.7	27.1
80°-90°	100.0	4.1
90°-100°	16.4	0.7
100°-110°	7.4	0.3
110°-120°	3.0	0.1
120°-130°	1.9	0.1
130°-140°	1.2	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°	2426.6	98.8
0°-180°	2457.1	100.0

Coefficient of Utilization



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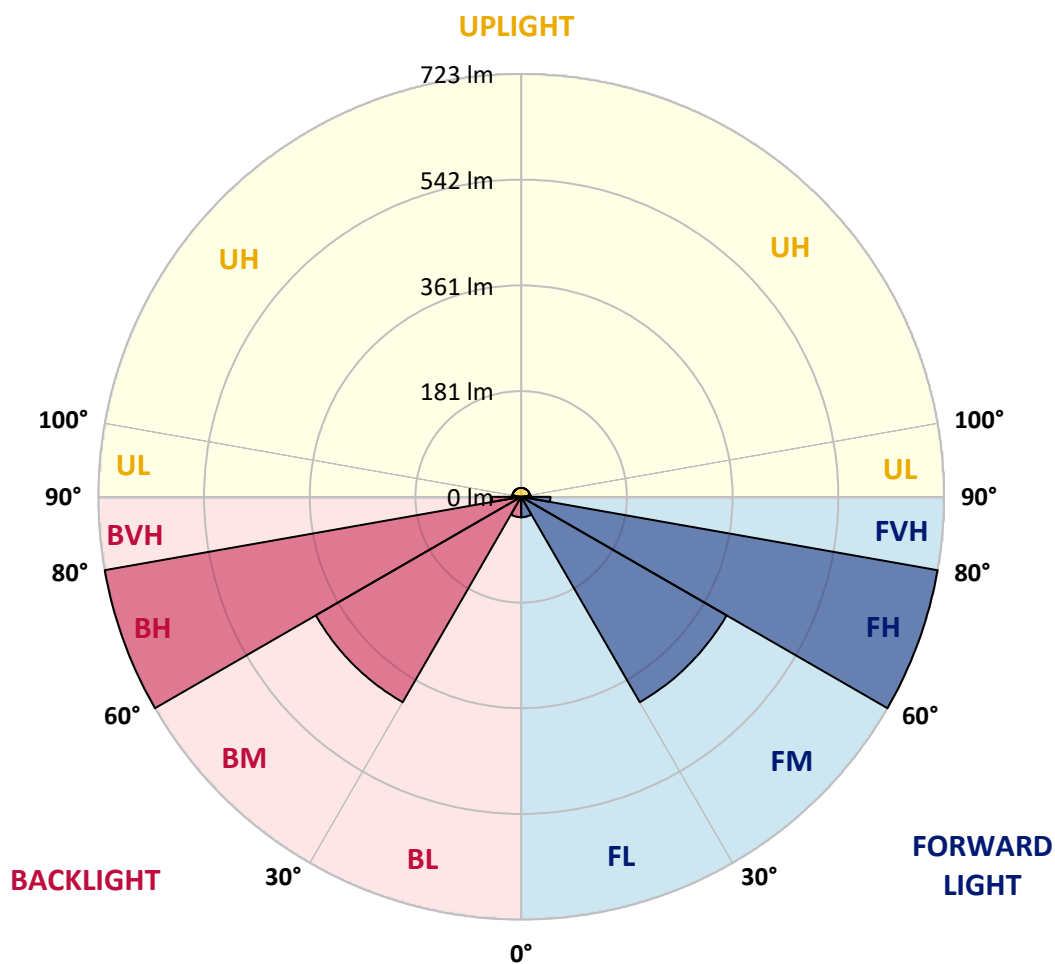
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	34.9	1.4			
FM	(30°-60°)	405.5	16.5			
FH	(60°-80°)	722.9	29.4			G1/1800
FVH	(80°-90°)	50.0	2.0			G1/100
BL	(0°-30°)	34.9	1.4	B0/110		
BM	(30°-60°)	405.5	16.5	B1/1000		
BH	(60°-80°)	722.9	29.4	B2/1000		G1/1800
BVH	(80°-90°)	50.0	2.0			G1/100
UL	(90°-100°)	16.4	0.7		U2/50	
UH	(100°-180°)	15.3	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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
2.5°	11.0	11.0	11.0	10.5	10.5	11.7	8.0	6.2	5.9	5.1	5.1
5°	12.5	12.8	12.0	11.4	11.0	11.7	12.0	11.0	6.9	5.4	4.8
7.5°	21.1	22.7	20.8	18.5	17.6	12.3	10.8	12.0	9.1	5.7	5.4
10°	36.9	36.7	37.5	35.0	25.3	19.6	16.2	11.0	13.4	10.2	9.6
12.5°	37.5	36.9	37.2	37.2	36.1	32.4	23.6	25.9	27.8	29.9	28.7
15°	65.4	64.2	58.6	50.6	36.1	44.1	44.6	46.0	41.5	39.8	39.0
17.5°	74.0	73.0	71.9	69.0	62.8	55.1	54.3	54.3	61.2	69.0	64.5
20°	81.8	80.2	72.5	71.4	77.0	69.4	66.8	81.0	87.6	94.4	91.9
22.5°	114.9	118.3	115.7	89.3	83.3	83.3	93.0	96.7	97.3	100.4	98.1
25°	117.7	119.4	116.6	110.9	105.2	97.3	103.7	108.0	125.4	131.7	130.2
27.5°	149.9	151.0	136.0	119.2	120.3	116.3	116.8	133.1	148.9	150.1	156.4
30°	161.5	163.0	155.5	149.2	132.5	132.2	138.7	149.9	168.6	182.3	193.3
32.5°	197.8	191.6	171.4	156.9	149.6	147.3	152.4	173.4	193.8	205.3	218.9
35°	218.4	221.2	217.0	179.9	163.2	171.8	172.9	181.4	200.2	220.0	228.0
37.5°	251.0	251.9	223.7	201.3	179.4	193.8	200.2	200.4	224.6	248.2	254.7
40°	272.1	280.1	261.9	230.0	199.9	209.0	210.1	234.3	256.8	272.1	282.3
42.5°	303.4	303.1	283.8	262.4	223.5	232.0	237.1	246.2	282.8	301.4	311.6
45°	337.8	337.2	319.9	294.0	259.8	251.9	259.6	285.4	324.7	340.0	334.9
47.5°	380.9	383.5	366.2	336.9	292.0	306.2	296.2	331.2	345.5	365.1	377.9
50°	425.6	428.2	406.8	383.3	335.2	336.3	341.2	368.5	391.0	422.0	435.6
52.5°	485.1	487.3	466.3	430.5	392.6	396.3	394.3	408.6	450.1	482.2	477.3
55°	550.1	549.3	523.8	500.4	467.4	454.9	447.2	484.5	509.2	534.0	539.1
57.5°	646.2	636.3	605.6	561.0	524.6	531.9	525.7	536.5	576.3	612.6	622.4
60°	716.8	723.0	700.8	650.5	595.7	593.1	598.2	618.7	647.1	669.8	683.2
62.5°	824.5	818.6	791.6	748.0	698.6	701.4	679.5	695.4	712.2	744.3	743.2
65°	872.9	871.5	853.8	830.7	786.4	769.7	748.3	756.3	772.7	790.1	816.0
67.5°	903.6	921.2	910.9	904.1	841.0	827.9	781.5	794.1	814.9	837.3	855.5
69°	900.7	919.2	924.0	943.9	860.6	834.4	800.0	803.7	837.0	863.8	878.0
70°	884.2	907.8	908.1	940.8	859.8	855.8	808.0	802.3	842.7	868.3	885.7
72.5°	781.0	796.4	807.4	811.7	812.0	856.3	801.8	757.1	792.4	843.8	843.2
75°	603.8	620.9	643.6	636.0	699.1	777.3	725.0	647.9	652.2	680.7	687.4
77.5°	380.1	381.9	411.4	435.0	538.8	619.5	566.6	461.5	413.1	414.0	430.2
80°	217.2	217.8	234.3	258.7	331.5	425.0	349.1	259.8	203.3	200.4	198.8
82.5°	103.7	101.5	107.7	127.7	172.0	214.6	174.6	99.2	79.3	87.3	88.4
85°	37.2	44.1	50.0	57.2	79.1	82.8	61.4	50.8	52.3	49.2	50.6
87.5°	23.3	23.8	28.4	30.7	32.9	34.4	38.4	34.4	35.0	28.9	27.3
90°	16.5	16.8	20.5	21.1	22.7	23.0	22.2	22.2	21.3	16.8	17.4
92.5°	12.8	12.5	16.0	17.9	19.6	18.5	19.3	16.8	16.2	12.3	12.0
95°	16.0	16.0	17.4	18.2	16.2	13.6	15.7	15.0	14.5	10.8	10.5
97.5°	9.1	9.6	13.1	13.9	13.6	11.0	13.4	13.6	13.1	9.4	8.0
100°	8.0	8.8	11.7	12.5	12.0	9.4	12.0	12.5	11.7	8.3	7.4
102.5°	7.1	7.7	9.6	10.8	9.6	7.1	9.6	10.5	9.6	6.9	6.2
105°	5.9	6.2	6.9	8.0	6.9	5.4	7.1	7.7	6.2	5.4	5.1
107.5°	5.1	5.1	4.8	5.4	4.8	4.3	5.1	5.4	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	4.8	4.5	3.7	3.7	3.7	3.4	3.7	4.0	3.7	4.3	4.3
112.5°	4.3	4.0	3.2	2.9	2.9	2.9	3.2	3.2	3.2	4.0	4.0
115°	4.0	3.7	2.9	2.3	2.6	2.6	2.6	2.6	2.9	3.7	4.0
117.5°	4.0	3.7	2.6	2.3	1.9	1.9	2.3	2.3	2.9	3.7	3.7
120°	3.7	3.4	2.6	1.9	1.7	1.7	1.9	2.3	2.9	3.7	3.7
122.5°	3.4	3.4	2.3	1.7	1.7	1.7	1.7	1.9	2.6	3.4	3.4
125°	3.2	3.2	2.3	1.7	1.4	1.4	1.7	1.9	2.6	3.4	3.4
127.5°	3.2	2.9	2.3	1.4	1.4	1.4	1.4	1.7	2.3	3.2	3.4
130°	2.9	2.9	1.9	1.4	1.1	1.1	1.4	1.7	2.3	2.9	3.2
132.5°	2.9	2.6	1.9	1.1	1.1	1.1	1.1	1.4	1.9	2.6	2.9
135°	2.3	2.3	1.7	1.1	0.8	0.8	1.1	1.4	1.7	2.3	2.6
137.5°	2.3	1.9	1.7	1.1	0.8	0.8	0.8	1.1	1.7	1.9	2.3
140°	1.9	1.9	1.4	1.1	0.8	0.8	0.8	1.1	1.4	1.7	1.9
142.5°	1.7	1.7	1.4	1.1	0.8	0.6	0.8	0.8	1.1	1.4	1.4
145°	1.7	1.7	1.4	0.8	0.6	0.6	0.6	0.8	1.1	1.1	1.4
147.5°	1.4	1.4	1.1	0.8	0.6	0.3	0.6	0.8	0.8	1.1	1.1
150°	1.1	1.1	0.8	0.6	0.3	0.0	0.3	0.6	0.8	0.8	0.8
152.5°	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.3	0.6	0.6	0.8
155°	0.6	0.6	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)