

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: P266292

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266292
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2920.9 lumens
Efficiency: N/A
Efficacy: 94.2 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



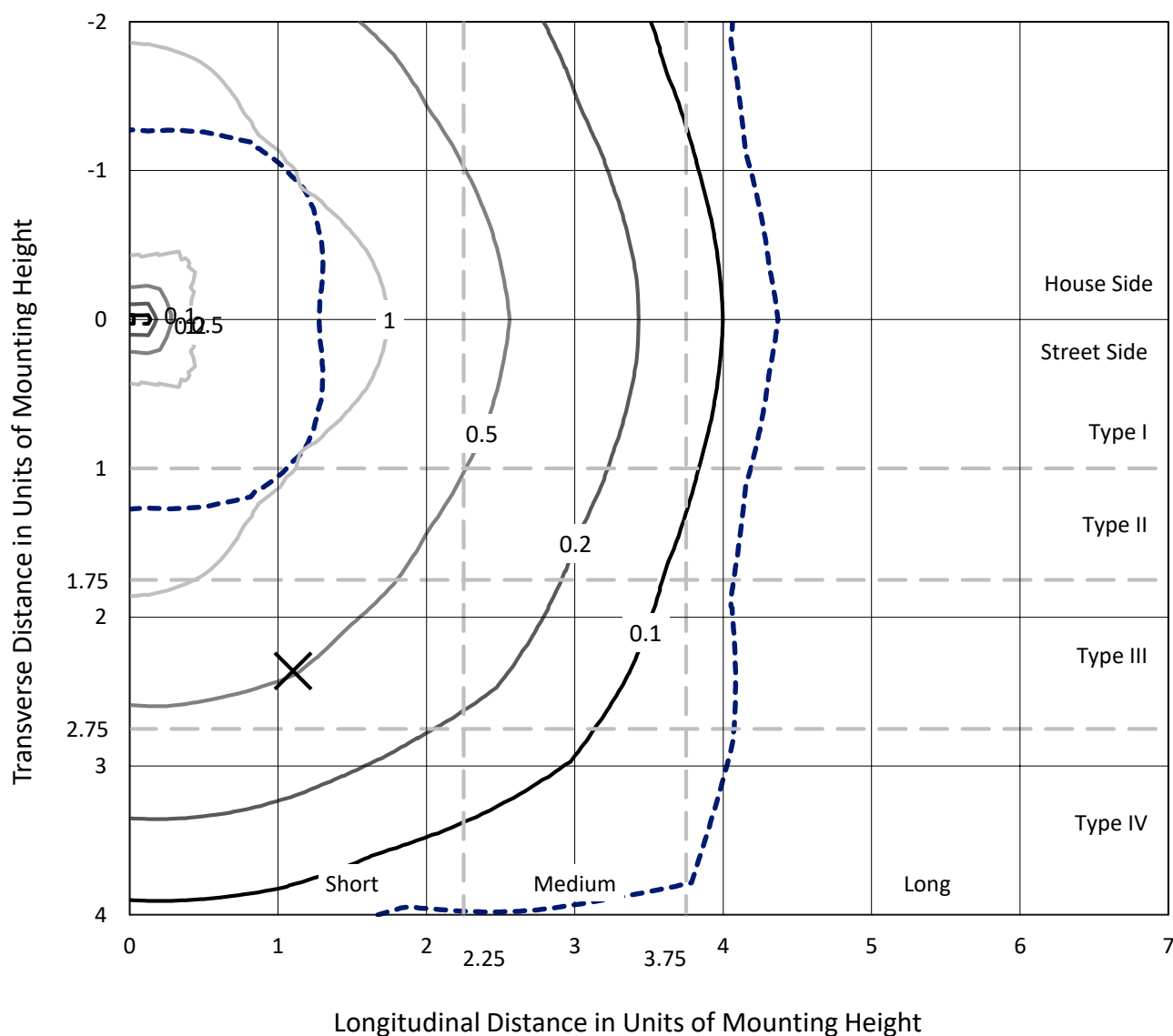
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

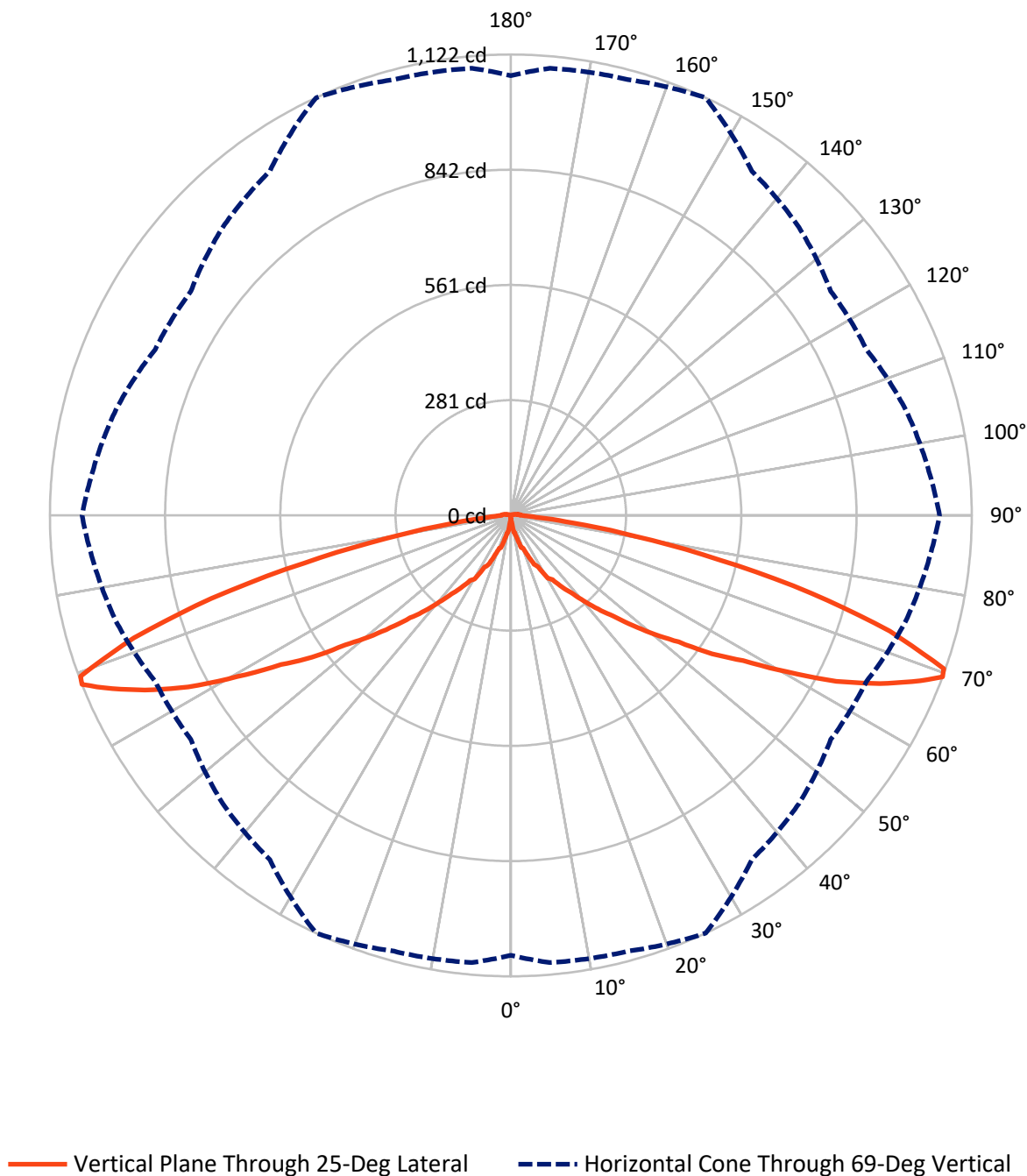


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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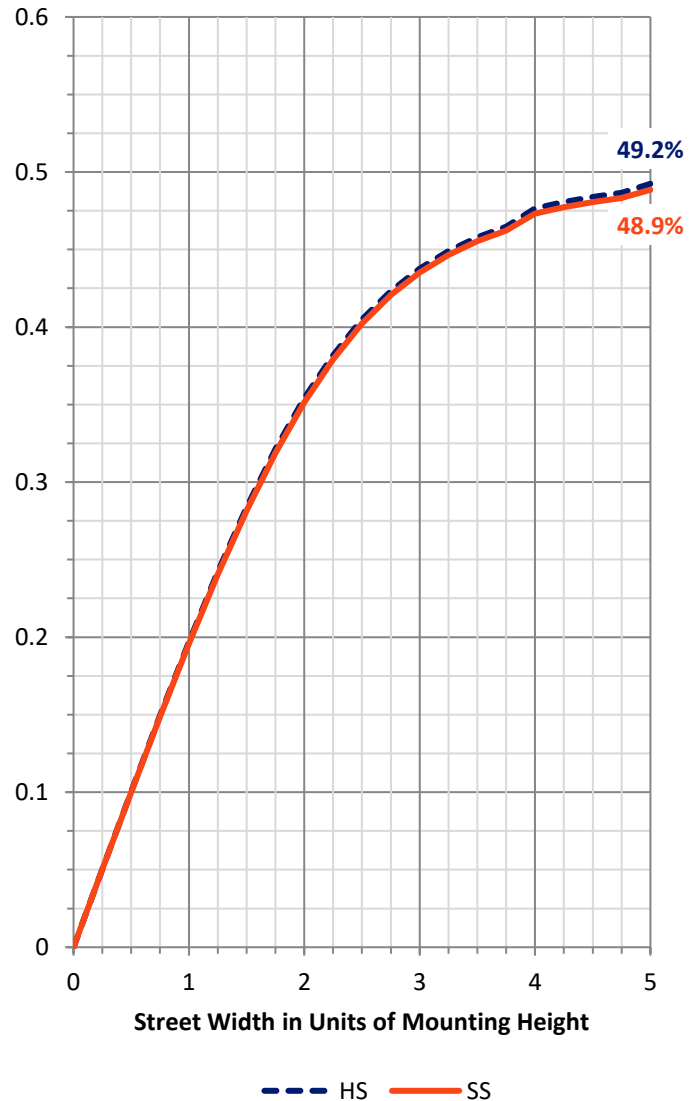
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1442.3	18.2	1460.5
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1442.3	18.2	1460.5
	% Fixture	49.4	0.6	50.0
Total	Lumens	2884.5	36.4	2920.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	17.2	0.6
20°-30°	64.2	2.2
30°-40°	145.7	5.0
40°-50°	279.4	9.6
50°-60°	538.9	18.5
60°-70°	927.2	31.7
70°-80°	791.4	27.1
80°-90°	118.9	4.1
90°-100°	19.4	0.7
100°-110°	8.8	0.3
110°-120°	3.6	0.1
120°-130°	2.3	0.1
130°-140°	1.4	0.0
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2884.5	98.8
0°-180°	2920.9	100.0

Coefficient of Utilization



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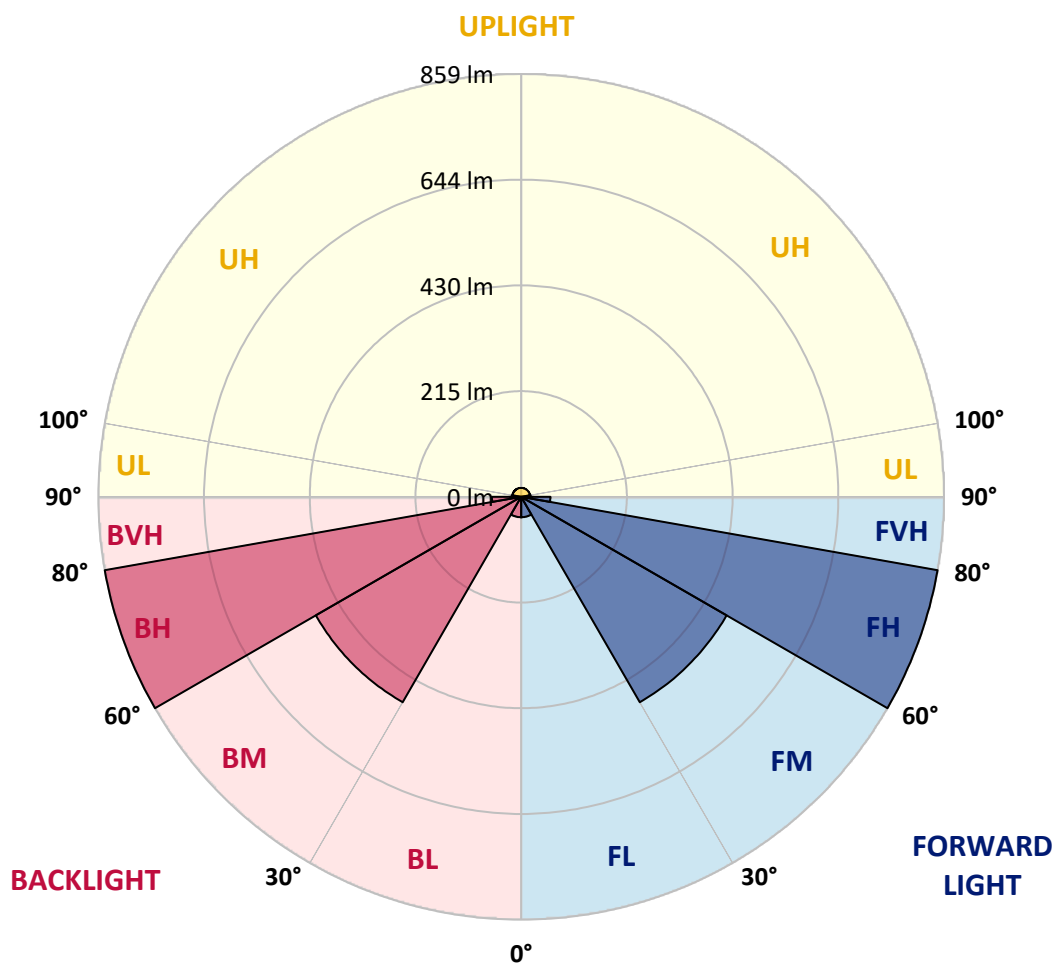
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	41.5	1.4			
FM	(30°-60°)	482.0	16.5			
FH	(60°-80°)	859.3	29.4			G1/1800
FVH	(80°-90°)	59.4	2.0			G1/100
BL	(0°-30°)	41.5	1.4	B0/110		
BM	(30°-60°)	482.0	16.5	B1/1000		
BH	(60°-80°)	859.3	29.4	B2/1000		G1/1800
BVH	(80°-90°)	59.4	2.0			G1/100
UL	(90°-100°)	19.4	0.7		U2/50	
UH	(100°-180°)	18.2	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	13.1	13.1	13.1	12.4	12.4	13.8	9.4	7.5	7.0	6.1	6.1
5°	14.9	15.2	14.3	13.6	13.1	13.8	14.3	13.1	8.2	6.4	5.7
7.5°	25.1	26.9	24.7	22.0	20.9	14.6	12.8	14.3	10.8	6.7	6.4
10°	43.9	43.6	44.6	41.6	30.1	23.4	19.3	13.1	15.9	12.1	11.5
12.5°	44.6	43.9	44.2	44.2	42.8	38.5	28.0	30.7	33.1	35.6	34.1
15°	77.8	76.4	69.6	60.1	42.8	52.5	53.1	54.7	49.3	47.3	46.4
17.5°	87.9	86.9	85.5	82.1	74.6	65.5	64.6	64.6	72.7	82.1	76.7
20°	97.3	95.3	86.1	84.8	91.5	82.5	79.4	96.3	104.2	112.2	109.1
22.5°	136.5	140.6	137.5	106.1	99.1	99.1	110.5	115.0	115.6	119.4	116.6
25°	140.0	141.9	138.6	131.8	125.0	115.6	123.3	128.5	149.1	156.5	154.8
27.5°	178.1	179.4	161.5	141.7	143.0	138.2	138.9	158.2	177.1	178.5	185.9
30°	192.0	193.7	185.0	177.4	157.6	157.2	164.8	178.1	200.4	216.6	229.8
32.5°	235.3	227.8	203.7	186.6	177.8	175.1	181.2	206.3	230.4	244.0	260.1
35°	259.6	262.9	257.9	213.9	194.0	204.2	205.5	215.7	238.0	261.5	271.1
37.5°	298.4	299.4	266.0	239.3	213.3	230.4	238.0	238.3	266.9	295.1	302.8
40°	323.4	332.9	311.3	273.4	237.6	248.4	249.8	278.5	305.2	323.4	335.5
42.5°	360.6	360.3	337.4	311.9	265.7	275.8	281.9	292.7	336.2	358.2	370.5
45°	401.5	400.9	380.3	349.5	308.8	299.4	308.6	339.3	385.9	404.1	398.0
47.5°	452.8	455.9	435.3	400.6	347.0	364.1	352.1	393.7	410.6	433.9	449.2
50°	505.9	509.0	483.6	455.6	398.5	399.8	405.6	438.1	464.8	501.6	517.8
52.5°	576.6	579.2	554.3	511.7	466.7	471.2	468.7	485.7	535.0	573.2	567.5
55°	654.0	653.0	622.5	594.9	555.6	540.8	531.6	576.0	605.3	634.7	640.9
57.5°	768.2	756.5	719.9	666.8	623.6	632.3	625.0	637.7	685.0	728.3	739.8
60°	852.0	859.5	833.1	773.4	708.0	705.0	711.1	735.4	769.2	796.3	812.2
62.5°	980.1	973.0	941.0	889.2	830.5	833.7	807.8	826.7	846.7	884.8	883.5
65°	1037.5	1035.8	1014.9	987.5	934.9	915.0	889.5	899.1	918.5	939.2	970.0
67.5°	1074.1	1095.0	1082.8	1074.7	999.8	984.2	929.0	943.9	968.6	995.3	1016.9
69°	1070.7	1092.7	1098.4	1122.1	1023.0	992.0	951.0	955.4	995.1	1026.8	1043.7
70°	1051.0	1079.1	1079.5	1118.3	1022.0	1017.3	960.5	953.8	1001.7	1032.2	1052.8
72.5°	928.4	946.6	959.7	964.9	965.3	1018.0	953.1	900.0	942.0	1003.0	1002.4
75°	717.8	738.1	765.1	756.1	831.1	923.9	861.8	770.2	775.2	809.2	817.2
77.5°	451.8	454.0	489.0	517.2	640.4	736.4	673.5	548.5	491.1	492.1	511.3
80°	258.3	258.9	278.5	307.6	394.0	505.2	415.0	308.8	241.6	238.3	236.3
82.5°	123.3	120.6	128.1	151.8	204.5	255.2	207.5	117.9	94.3	103.8	105.1
85°	44.2	52.5	59.5	67.9	94.0	98.4	73.0	60.5	62.3	58.5	60.1
87.5°	27.7	28.3	33.7	36.6	39.2	41.0	45.6	41.0	41.6	34.5	32.5
90°	19.7	19.9	24.3	25.1	26.9	27.4	26.4	26.4	25.3	19.9	20.7
92.5°	15.2	14.9	19.0	21.3	23.4	22.0	22.9	19.9	19.3	14.6	14.3
95°	19.0	19.0	20.7	21.6	19.3	16.2	18.5	18.0	17.2	12.8	12.4
97.5°	10.8	11.5	15.5	16.6	16.2	13.1	15.9	16.2	15.5	11.1	9.4
100°	9.4	10.5	13.8	14.9	14.3	11.1	14.3	14.9	13.8	9.8	8.9
102.5°	8.4	9.2	11.5	12.8	11.5	8.4	11.5	12.4	11.5	8.2	7.5
105°	7.0	7.5	8.2	9.4	8.2	6.4	8.4	9.2	7.5	6.4	6.1
107.5°	6.1	6.1	5.7	6.4	5.7	5.1	6.1	6.4	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	5.7	5.4	4.4	4.4	4.4	4.0	4.4	4.8	4.4	5.1	5.1
112.5°	5.1	4.8	3.8	3.4	3.4	3.4	3.8	3.8	3.8	4.8	4.8
115°	4.8	4.4	3.4	2.8	3.1	3.1	3.1	3.1	3.4	4.4	4.8
117.5°	4.8	4.4	3.1	2.8	2.3	2.3	2.8	2.8	3.4	4.4	4.4
120°	4.4	4.0	3.1	2.3	2.1	2.1	2.3	2.8	3.4	4.4	4.4
122.5°	4.0	4.0	2.8	2.1	2.1	2.1	2.1	2.3	3.1	4.0	4.0
125°	3.8	3.8	2.8	2.1	1.6	1.6	2.1	2.3	3.1	4.0	4.0
127.5°	3.8	3.4	2.8	1.6	1.6	1.6	1.6	2.1	2.8	3.8	4.0
130°	3.4	3.4	2.3	1.6	1.3	1.3	1.6	2.1	2.8	3.4	3.8
132.5°	3.4	3.1	2.3	1.3	1.3	1.3	1.3	1.6	2.3	3.1	3.4
135°	2.8	2.8	2.1	1.3	1.0	1.0	1.3	1.6	2.1	2.8	3.1
137.5°	2.8	2.3	2.1	1.3	1.0	1.0	1.0	1.3	2.1	2.3	2.8
140°	2.3	2.3	1.6	1.3	1.0	1.0	1.0	1.3	1.6	2.1	2.3
142.5°	2.1	2.1	1.6	1.3	1.0	0.7	1.0	1.0	1.3	1.6	1.6
145°	2.1	2.1	1.6	1.0	0.7	0.7	0.7	1.0	1.3	1.3	1.6
147.5°	1.6	1.6	1.3	1.0	0.7	0.3	0.7	1.0	1.0	1.3	1.3
150°	1.3	1.3	1.0	0.7	0.3	0.0	0.3	0.7	1.0	1.0	1.0
152.5°	1.0	1.0	0.7	0.3	0.0	0.0	0.0	0.3	0.7	0.7	1.0
155°	0.7	0.7	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)