

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: P240915

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240915
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-AF24-70-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 7455.3 lumens
Efficiency: N/A
Efficacy: 100.7 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 - G2

Input Watts (W): 74
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

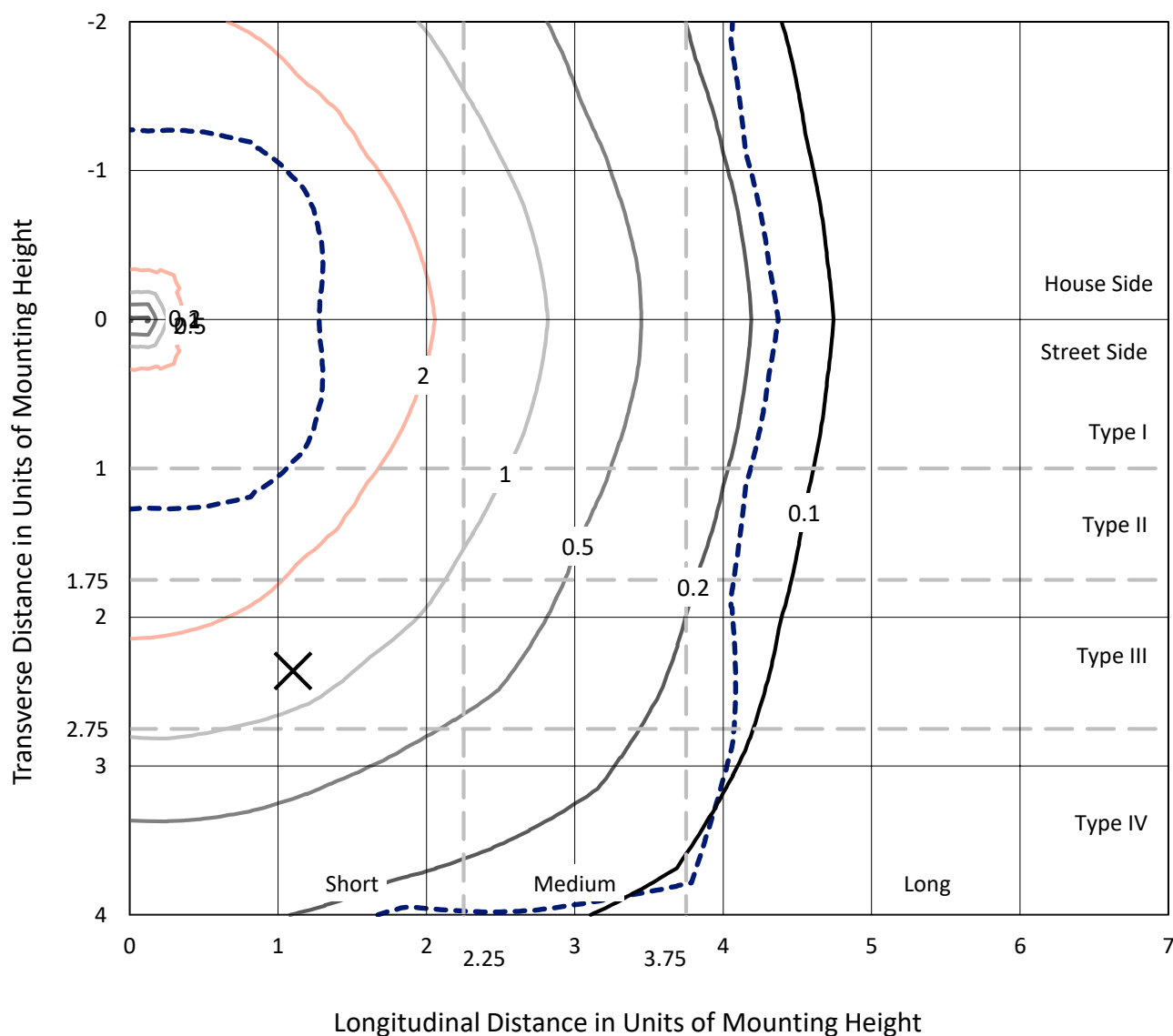


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

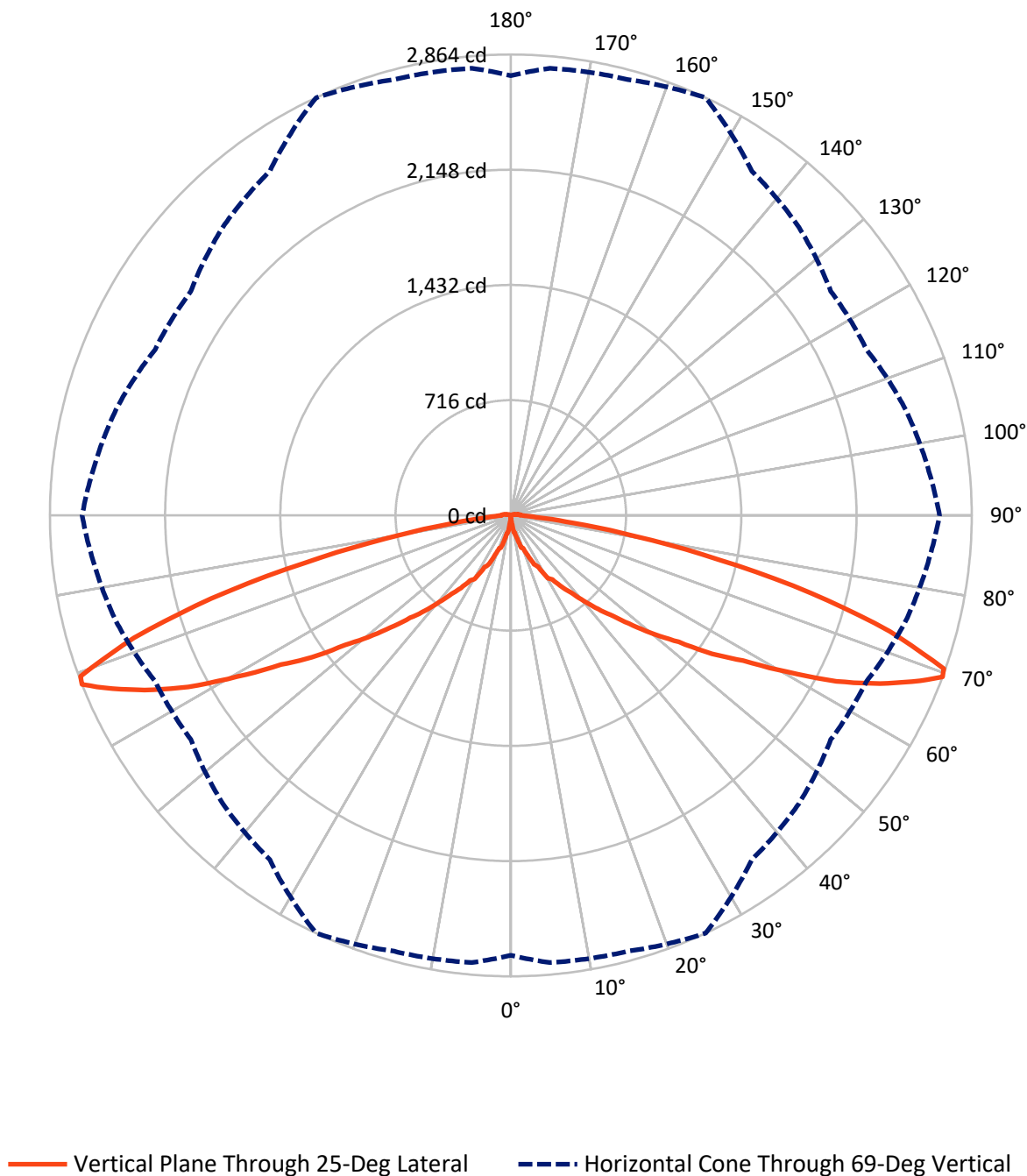


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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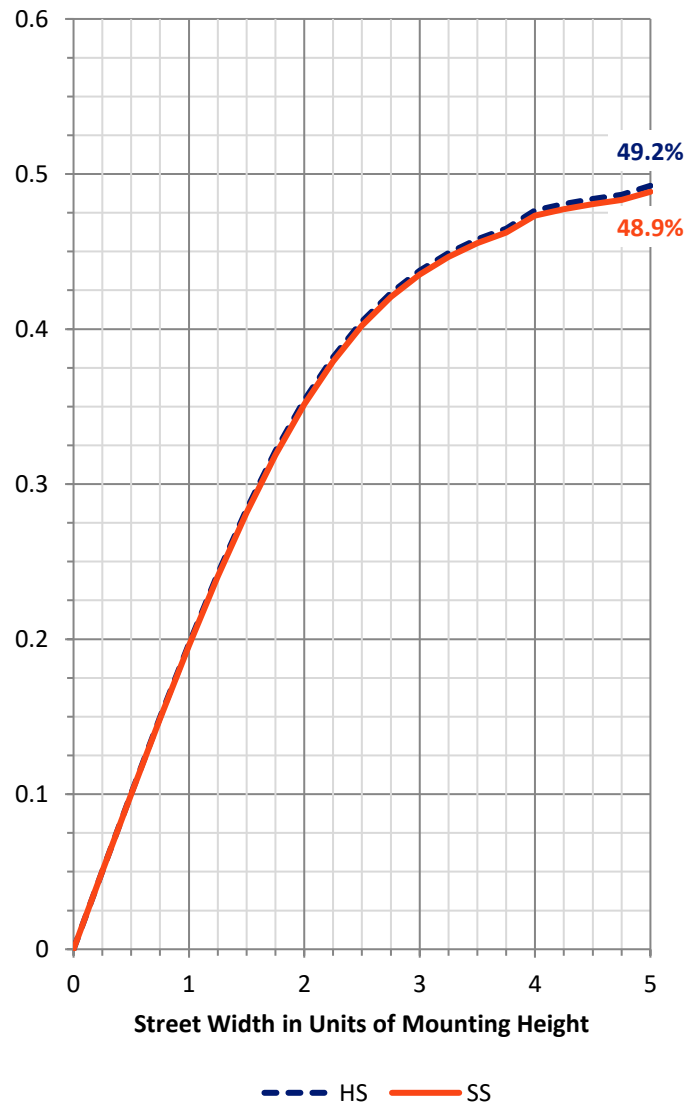
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3681.2	46.4	3727.6
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3681.2	46.4	3727.6
	% Fixture	49.4	0.6	50.0
Total	Lumens	7362.4	92.8	7455.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	44.0	0.6
20°-30°	163.8	2.2
30°-40°	371.9	5.0
40°-50°	713.2	9.6
50°-60°	1375.6	18.5
60°-70°	2366.5	31.7
70°-80°	2020.0	27.1
80°-90°	303.4	4.1
90°-100°	49.6	0.7
100°-110°	22.5	0.3
110°-120°	9.0	0.1
120°-130°	5.9	0.1
130°-140°	3.6	0.0
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7362.4	98.8
0°-180°	7455.3	100.0

Coefficient of Utilization



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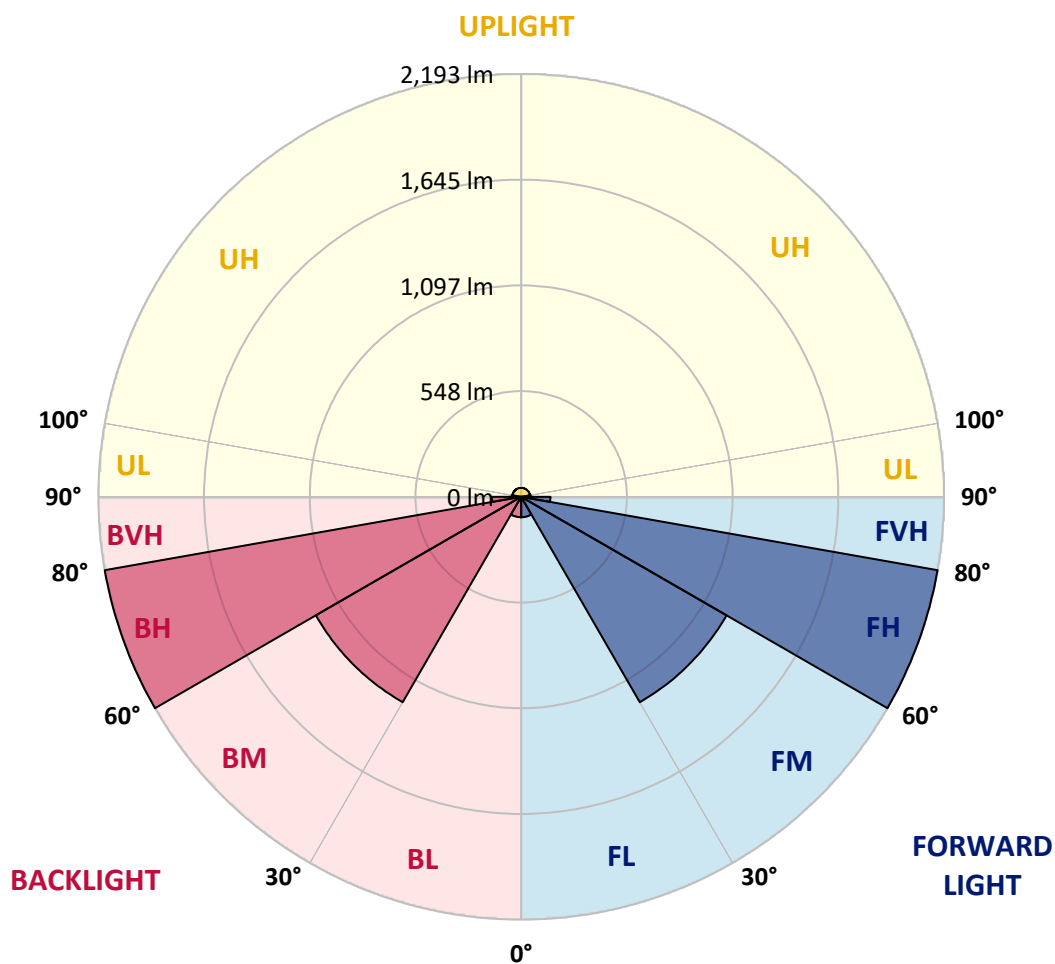
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.0	1.4			
FM	(30°-60°)	1230.3	16.5			
FH	(60°-80°)	2193.2	29.4			G2/5000
FVH	(80°-90°)	151.7	2.0			G2/225
BL	(0°-30°)	106.0	1.4	B0/110		
BM	(30°-60°)	1230.3	16.5	B2/2500		
BH	(60°-80°)	2193.2	29.4	B3/2500		G2/5000
BVH	(80°-90°)	151.7	2.0			G2/225
UL	(90°-100°)	49.6	0.7		U2/50	
UH	(100°-180°)	46.4	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	33.7	33.7	33.7	31.9	31.9	35.4	24.1	19.0	18.1	15.5	15.5
5°	38.0	38.8	36.2	34.5	33.7	35.4	36.2	33.7	20.7	16.4	14.6
7.5°	63.8	69.0	63.0	56.1	53.5	37.1	32.7	36.2	27.6	17.3	16.4
10°	112.1	111.3	113.9	106.1	76.8	59.5	49.2	33.7	40.5	31.1	29.4
12.5°	113.9	112.1	113.0	113.0	109.6	98.3	71.6	78.5	84.5	90.5	87.2
15°	198.5	195.0	177.7	153.5	109.6	133.7	135.4	139.7	125.9	120.8	118.2
17.5°	224.3	221.7	218.3	209.6	190.7	167.4	164.8	164.8	185.5	209.6	195.8
20°	248.5	243.3	219.9	216.6	233.7	210.5	202.7	245.8	265.7	286.4	278.7
22.5°	348.5	358.9	351.1	270.9	252.8	252.8	282.1	293.3	295.0	304.5	297.6
25°	357.1	362.3	353.6	336.4	319.2	295.0	314.9	327.8	380.4	399.4	395.1
27.5°	454.6	458.1	412.4	361.4	364.9	352.8	354.6	403.8	452.0	455.5	474.4
30°	490.0	494.3	471.9	452.9	402.0	401.1	420.9	454.6	511.6	552.9	586.6
32.5°	600.4	581.4	520.2	476.2	453.8	446.8	462.4	526.2	588.3	622.9	664.2
35°	662.5	671.2	658.2	546.1	495.1	521.0	524.5	550.3	607.3	667.7	691.8
37.5°	761.7	764.2	678.9	610.7	544.3	588.3	607.3	608.1	681.5	753.1	772.9
40°	825.5	849.7	794.5	697.9	606.4	634.0	637.5	710.8	779.0	825.5	856.6
42.5°	920.5	919.5	860.9	796.3	678.0	703.9	719.4	747.1	858.4	914.4	945.4
45°	1024.8	1023.1	970.5	892.0	788.5	764.2	787.6	866.1	985.1	1031.7	1016.2
47.5°	1155.9	1163.7	1111.0	1022.2	886.0	929.0	898.9	1004.9	1048.1	1107.7	1146.4
50°	1291.4	1299.1	1234.4	1162.8	1017.0	1020.5	1035.1	1118.0	1186.1	1280.1	1321.6
52.5°	1471.6	1478.6	1414.7	1306.0	1191.3	1202.5	1196.4	1239.6	1365.5	1463.0	1448.4
55°	1669.3	1666.6	1588.9	1518.3	1418.2	1380.3	1356.9	1470.0	1545.0	1620.0	1635.6
57.5°	1960.8	1930.6	1837.4	1702.0	1591.6	1614.0	1595.0	1627.8	1748.5	1859.0	1888.3
60°	2174.7	2193.7	2126.4	1973.7	1807.2	1799.5	1815.0	1877.1	1963.3	2032.4	2072.9
62.5°	2501.6	2483.5	2401.6	2269.6	2119.5	2128.1	2061.7	2110.0	2160.9	2258.4	2254.9
65°	2648.3	2644.0	2590.5	2520.7	2386.0	2335.2	2270.4	2294.6	2344.6	2397.3	2475.7
67.5°	2741.5	2794.9	2763.9	2743.1	2551.6	2512.0	2371.4	2409.4	2472.3	2540.5	2595.6
69°	2732.8	2788.9	2803.6	2864.0	2611.2	2531.8	2427.5	2438.7	2539.6	2620.7	2663.9
70°	2682.8	2754.4	2755.2	2854.4	2608.6	2596.6	2451.6	2434.3	2556.9	2634.5	2687.1
72.5°	2369.7	2416.2	2449.9	2462.9	2463.7	2598.3	2432.7	2297.2	2404.1	2560.3	2558.6
75°	1832.2	1884.0	1953.0	1929.7	2121.2	2358.4	2199.8	1965.9	1978.9	2065.1	2085.9
77.5°	1153.4	1158.5	1248.2	1319.8	1634.7	1879.7	1719.3	1400.0	1253.4	1256.0	1305.2
80°	659.1	660.8	710.8	785.0	1005.9	1289.6	1059.4	788.5	616.7	608.1	603.0
82.5°	314.9	308.0	326.9	387.3	521.9	651.3	529.7	301.1	240.7	264.8	268.3
85°	113.0	133.7	151.8	173.4	239.8	251.0	186.3	154.4	158.8	149.2	153.5
87.5°	70.7	72.4	86.2	93.2	100.0	104.3	116.4	104.3	106.1	88.0	82.9
90°	50.0	50.9	62.1	63.8	69.0	69.9	67.3	67.3	64.7	50.9	52.6
92.5°	38.8	38.0	48.3	54.3	59.5	56.1	58.6	50.9	49.2	37.1	36.2
95°	48.3	48.3	52.6	55.2	49.2	41.4	47.5	45.7	44.0	32.7	31.9
97.5°	27.6	29.4	39.7	42.2	41.4	33.7	40.5	41.4	39.7	28.4	24.1
100°	24.1	26.7	35.4	38.0	36.2	28.4	36.2	38.0	35.4	25.1	22.4
102.5°	21.6	23.3	29.4	32.7	29.4	21.6	29.4	31.9	29.4	20.7	19.0
105°	18.1	19.0	20.7	24.1	20.7	16.4	21.6	23.3	19.0	16.4	15.5
107.5°	15.5	15.5	14.6	16.4	14.6	12.9	15.5	16.4	13.8	13.8	13.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	14.6	13.8	11.3	11.3	11.3	10.3	11.3	12.1	11.3	12.9	12.9
112.5°	12.9	12.1	9.5	8.6	8.6	8.6	9.5	9.5	9.5	12.1	12.1
115°	12.1	11.3	8.6	6.9	7.8	7.8	7.8	7.8	8.6	11.3	12.1
117.5°	12.1	11.3	7.8	6.9	6.0	6.0	6.9	6.9	8.6	11.3	11.3
120°	11.3	10.3	7.8	6.0	5.2	5.2	6.0	6.9	8.6	11.3	11.3
122.5°	10.3	10.3	6.9	5.2	5.2	5.2	5.2	6.0	7.8	10.3	10.3
125°	9.5	9.5	6.9	5.2	4.3	4.3	5.2	6.0	7.8	10.3	10.3
127.5°	9.5	8.6	6.9	4.3	4.3	4.3	4.3	5.2	6.9	9.5	10.3
130°	8.6	8.6	6.0	4.3	3.5	3.5	4.3	5.2	6.9	8.6	9.5
132.5°	8.6	7.8	6.0	3.5	3.5	3.5	3.5	4.3	6.0	7.8	8.6
135°	6.9	6.9	5.2	3.5	2.6	2.6	3.5	4.3	5.2	6.9	7.8
137.5°	6.9	6.0	5.2	3.5	2.6	2.6	2.6	3.5	5.2	6.0	6.9
140°	6.0	6.0	4.3	3.5	2.6	2.6	2.6	3.5	4.3	5.2	6.0
142.5°	5.2	5.2	4.3	3.5	2.6	1.7	2.6	2.6	3.5	4.3	4.3
145°	5.2	5.2	4.3	2.6	1.7	1.7	1.7	2.6	3.5	3.5	4.3
147.5°	4.3	4.3	3.5	2.6	1.7	0.8	1.7	2.6	2.6	3.5	3.5
150°	3.5	3.5	2.6	1.7	0.8	0.0	0.8	1.7	2.6	2.6	2.6
152.5°	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.8	1.7	1.7	2.6
155°	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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)