

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: P240904

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240904
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-AF24-50-D-U-5WQ-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA 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: 5419.2 lumens
Efficiency: N/A
Efficacy: 100.4 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): 54
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



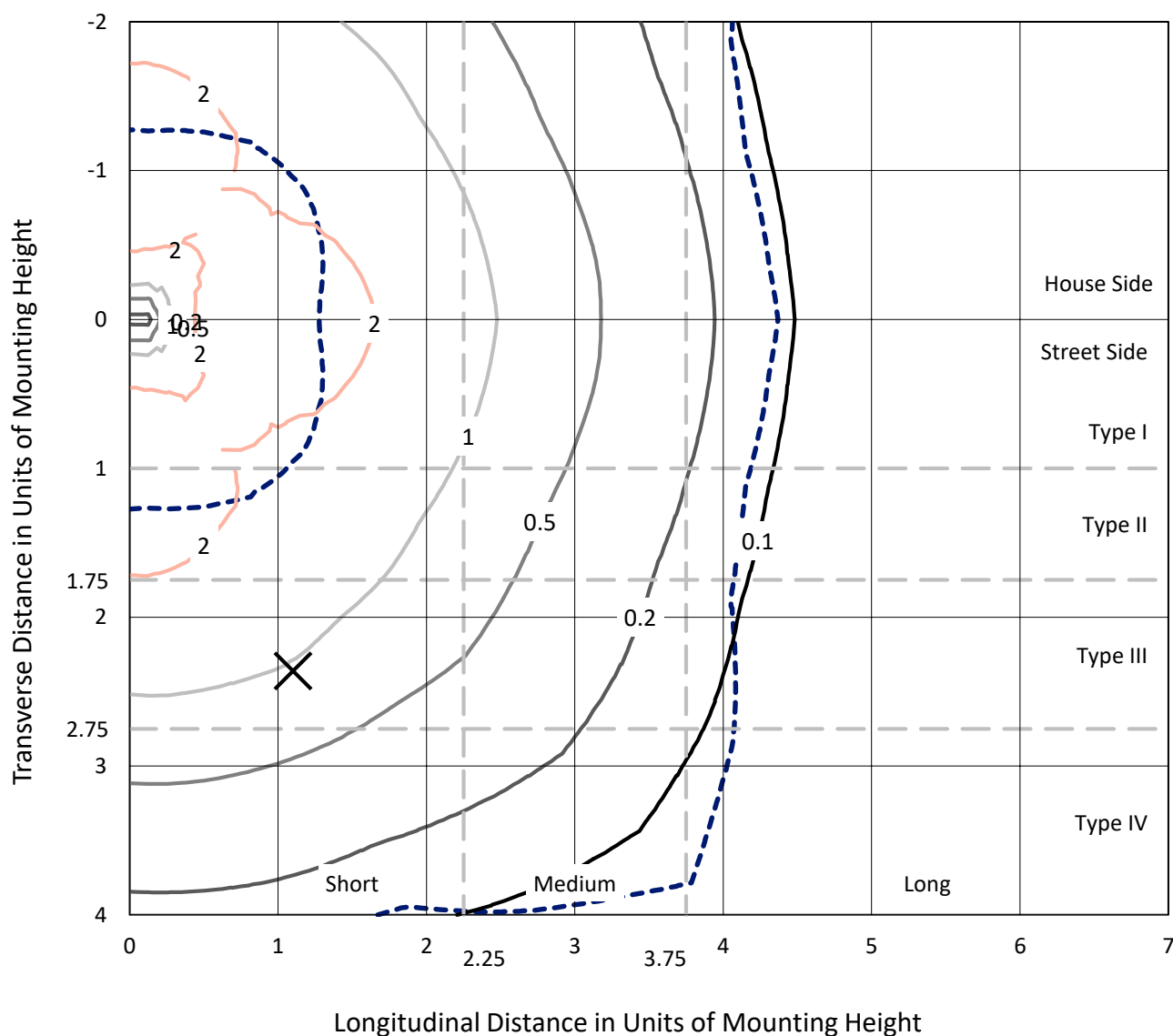
REPORT NUMBER: P240904

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

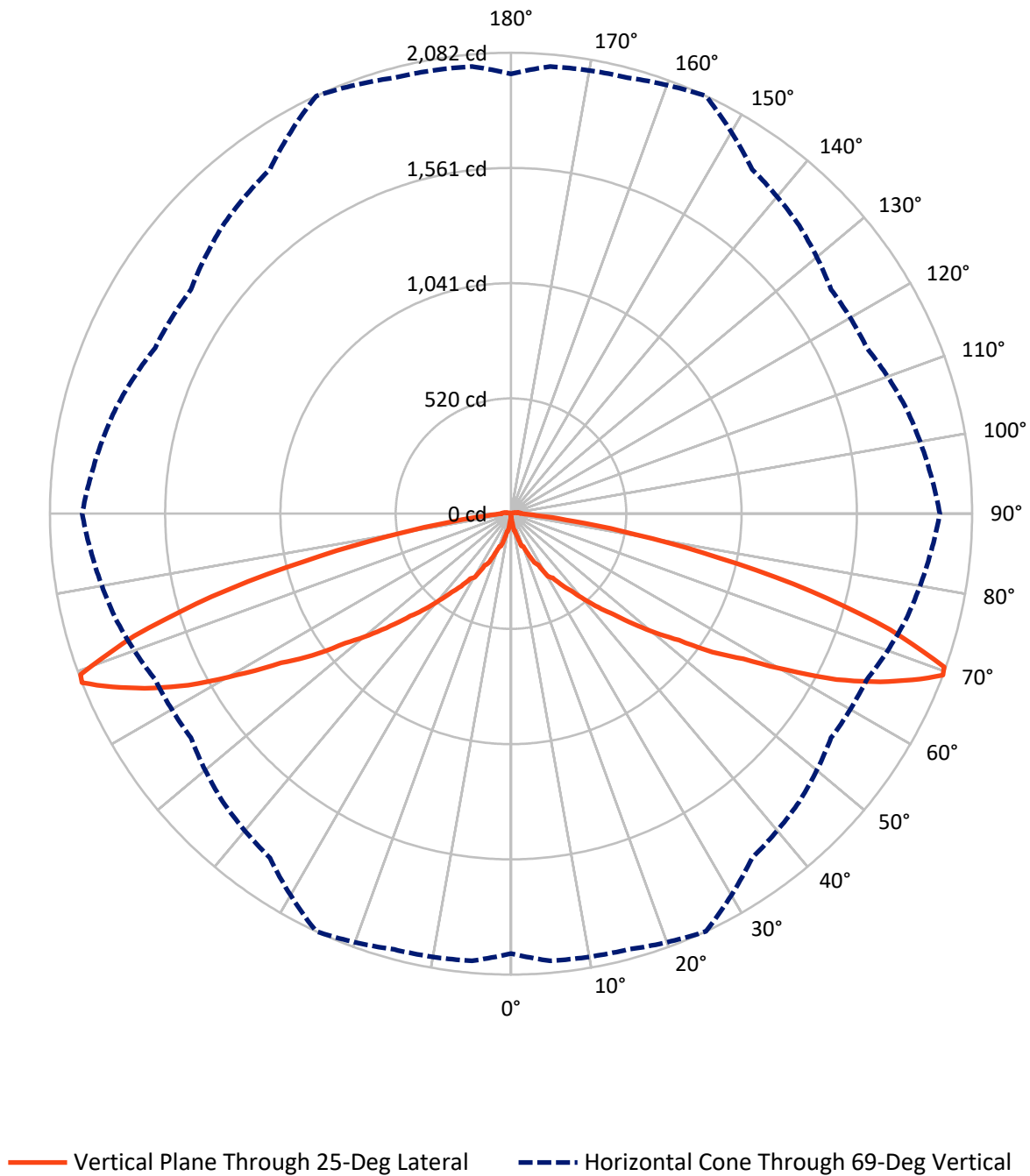


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P240904

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240904

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-CL-7030

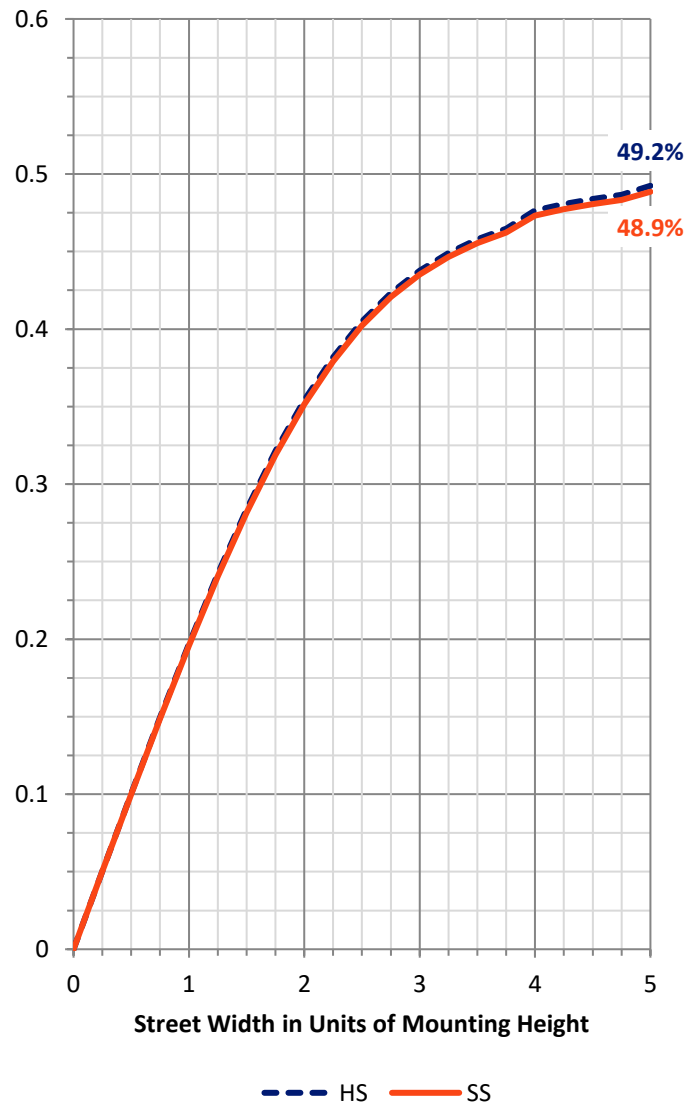
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2675.9	33.7	2709.6
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	2675.9	33.7	2709.6
	% Fixture	49.4	0.6	50.0
Total	Lumens	5351.8	67.4	5419.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	32.0	0.6
20°-30°	119.1	2.2
30°-40°	270.4	5.0
40°-50°	518.4	9.6
50°-60°	999.9	18.5
60°-70°	1720.2	31.7
70°-80°	1468.3	27.1
80°-90°	220.5	4.1
90°-100°	36.0	0.7
100°-110°	16.4	0.3
110°-120°	6.5	0.1
120°-130°	4.3	0.1
130°-140°	2.6	0.0
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5351.8	98.8
0°-180°	5419.2	100.0

Coefficient of Utilization



REPORT NUMBER: P240904

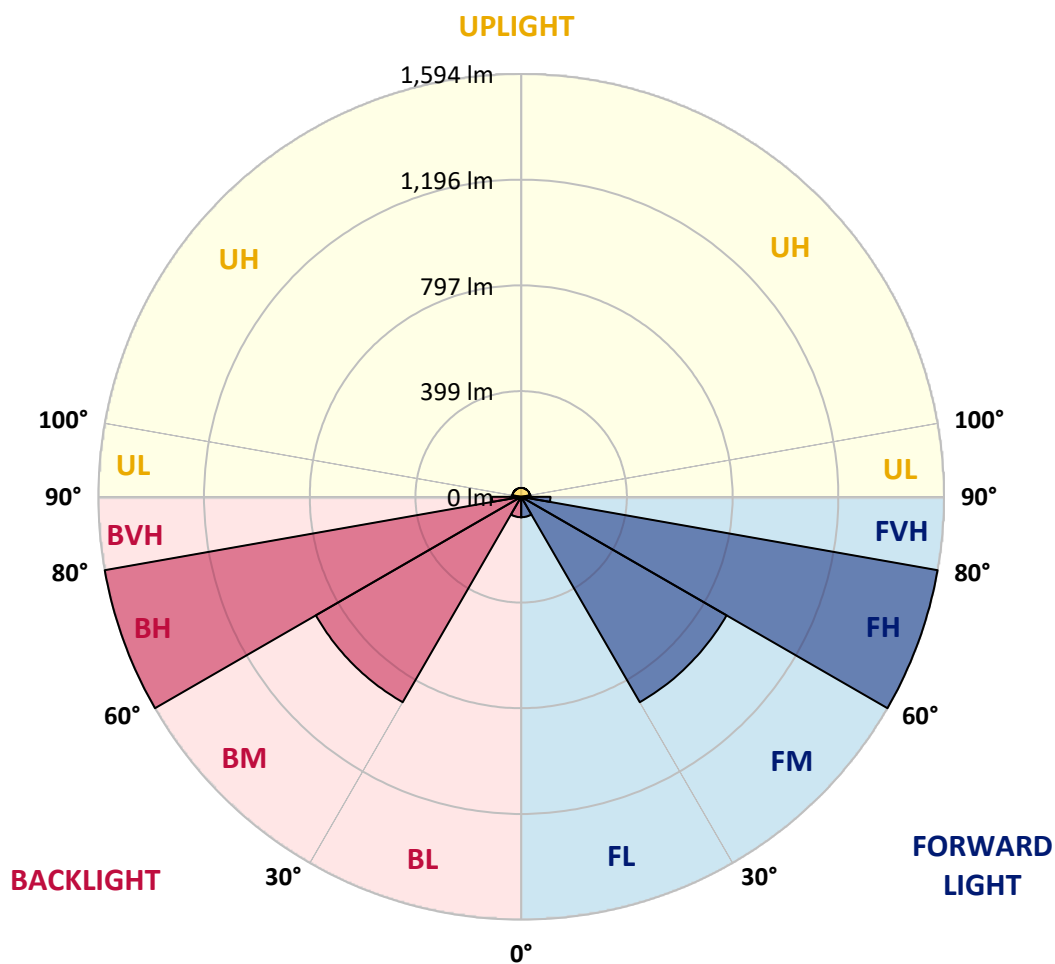
CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.0	1.4			
FM	(30°-60°)	894.3	16.5			
FH	(60°-80°)	1594.3	29.4			G1/1800
FVH	(80°-90°)	110.3	2.0			G2/225
BL	(0°-30°)	77.0	1.4	B0/110		
BM	(30°-60°)	894.3	16.5	B1/1000		
BH	(60°-80°)	1594.3	29.4	B3/2500		G1/1800
BVH	(80°-90°)	110.3	2.0			G2/225
UL	(90°-100°)	36.0	0.7		U2/50	
UH	(100°-180°)	33.7	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short





REPORT NUMBER: P240904

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	24.5	24.5	24.5	23.2	23.2	25.6	17.6	13.7	13.2	11.3	11.3
5°	27.7	28.2	26.3	25.1	24.5	25.6	26.3	24.5	15.1	11.9	10.7
7.5°	46.4	50.1	45.8	40.8	38.9	27.0	23.8	26.3	20.1	12.6	11.9
10°	81.5	80.9	82.8	77.1	55.8	43.2	35.7	24.5	29.5	22.6	21.3
12.5°	82.8	81.5	82.2	82.2	79.6	71.4	52.0	57.1	61.4	65.9	63.4
15°	144.2	141.7	129.2	111.7	79.6	97.2	98.5	101.6	91.6	87.7	85.9
17.5°	163.1	161.1	158.7	152.4	138.5	121.6	119.7	119.7	134.8	152.4	142.4
20°	180.6	176.8	159.8	157.5	169.9	153.0	147.4	178.7	193.2	208.1	202.5
22.5°	253.4	260.8	255.2	196.8	183.8	183.8	205.1	213.2	214.4	221.4	216.4
25°	259.6	263.4	257.1	244.5	231.9	214.4	228.9	238.3	276.5	290.3	287.3
27.5°	330.5	332.9	299.7	262.8	265.3	256.4	257.8	293.5	328.6	331.0	344.9
30°	356.1	359.4	343.0	329.2	292.2	291.6	306.0	330.5	371.8	402.0	426.4
32.5°	436.4	422.7	378.1	346.2	329.9	324.8	336.1	382.5	427.6	452.8	482.8
35°	481.7	487.9	478.4	396.9	359.9	378.7	381.2	400.1	441.4	485.3	502.9
37.5°	553.7	555.6	493.6	443.9	395.6	427.6	441.4	442.1	495.4	547.4	561.8
40°	600.1	617.7	577.6	507.3	440.9	460.8	463.4	516.7	566.2	600.1	622.7
42.5°	669.1	668.4	625.8	578.7	492.9	511.7	523.0	543.0	623.9	664.7	687.2
45°	744.9	743.7	705.5	648.4	573.2	555.6	572.5	629.6	716.0	749.9	738.7
47.5°	840.2	845.8	807.7	743.1	644.0	675.3	653.4	730.5	761.9	805.1	833.3
50°	938.6	944.3	897.3	845.2	739.2	741.8	752.5	812.7	862.2	930.6	960.6
52.5°	1069.7	1074.8	1028.3	949.4	866.0	874.1	869.7	901.1	992.6	1063.5	1052.8
55°	1213.4	1211.4	1155.0	1103.6	1030.9	1003.3	986.4	1068.4	1123.0	1177.6	1188.8
57.5°	1425.3	1403.3	1335.5	1237.2	1156.9	1173.2	1159.5	1183.3	1271.0	1351.3	1372.7
60°	1580.8	1594.6	1545.7	1434.7	1313.7	1308.1	1319.3	1364.4	1427.2	1477.3	1506.8
62.5°	1818.5	1805.3	1745.8	1649.9	1540.7	1546.9	1498.7	1533.8	1570.8	1641.6	1639.1
65°	1925.0	1921.9	1883.1	1832.3	1734.4	1697.5	1650.4	1668.0	1704.3	1742.5	1799.6
67.5°	1992.8	2031.6	2009.1	1994.0	1854.7	1825.9	1723.8	1751.3	1797.1	1846.7	1886.8
69°	1986.6	2027.3	2037.9	2081.8	1898.1	1840.4	1764.5	1772.7	1846.1	1905.1	1936.3
70°	1950.2	2002.1	2002.8	2075.0	1896.2	1887.5	1782.1	1769.6	1858.6	1915.0	1953.2
72.5°	1722.5	1756.4	1780.8	1790.2	1790.9	1888.6	1768.3	1669.8	1747.6	1861.1	1859.8
75°	1331.9	1369.4	1419.6	1402.7	1541.9	1714.4	1599.0	1429.0	1438.5	1501.1	1516.2
77.5°	838.3	842.2	907.4	959.4	1188.3	1366.4	1249.7	1017.7	911.1	913.0	948.7
80°	479.1	480.3	516.7	570.7	731.2	937.5	770.1	573.2	448.3	442.1	438.3
82.5°	228.9	223.9	237.6	281.6	379.3	473.4	385.0	218.8	175.0	192.6	195.0
85°	82.2	97.2	110.4	126.0	174.3	182.5	135.5	112.2	115.4	108.5	111.7
87.5°	51.5	52.7	62.8	67.7	72.7	75.8	84.6	75.8	77.1	63.9	60.2
90°	36.4	37.0	45.2	46.4	50.1	50.8	48.9	48.9	47.0	37.0	38.2
92.5°	28.2	27.7	35.1	39.6	43.2	40.8	42.6	37.0	35.7	27.0	26.3
95°	35.1	35.1	38.2	40.1	35.7	30.0	34.5	33.3	32.0	23.8	23.2
97.5°	20.1	21.3	28.9	30.7	30.0	24.5	29.5	30.0	28.9	20.6	17.6
100°	17.6	19.4	25.6	27.7	26.3	20.6	26.3	27.7	25.6	18.1	16.3
102.5°	15.7	16.9	21.3	23.8	21.3	15.7	21.3	23.2	21.3	15.1	13.7
105°	13.2	13.7	15.1	17.6	15.1	11.9	15.7	16.9	13.7	11.9	11.3
107.5°	11.3	11.3	10.7	11.9	10.7	9.4	11.3	11.9	10.1	10.1	10.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	10.7	10.1	8.2	8.2	8.2	7.5	8.2	8.7	8.2	9.4	9.4
112.5°	9.4	8.7	6.9	6.2	6.2	6.2	6.9	6.9	6.9	8.7	8.7
115°	8.7	8.2	6.2	5.0	5.7	5.7	5.7	5.7	6.2	8.2	8.7
117.5°	8.7	8.2	5.7	5.0	4.4	4.4	5.0	5.0	6.2	8.2	8.2
120°	8.2	7.5	5.7	4.4	3.8	3.8	4.4	5.0	6.2	8.2	8.2
122.5°	7.5	7.5	5.0	3.8	3.8	3.8	3.8	4.4	5.7	7.5	7.5
125°	6.9	6.9	5.0	3.8	3.2	3.2	3.8	4.4	5.7	7.5	7.5
127.5°	6.9	6.2	5.0	3.2	3.2	3.2	3.2	3.8	5.0	6.9	7.5
130°	6.2	6.2	4.4	3.2	2.5	2.5	3.2	3.8	5.0	6.2	6.9
132.5°	6.2	5.7	4.4	2.5	2.5	2.5	2.5	3.2	4.4	5.7	6.2
135°	5.0	5.0	3.8	2.5	1.8	1.8	2.5	3.2	3.8	5.0	5.7
137.5°	5.0	4.4	3.8	2.5	1.8	1.8	1.8	2.5	3.8	4.4	5.0
140°	4.4	4.4	3.2	2.5	1.8	1.8	1.8	2.5	3.2	3.8	4.4
142.5°	3.8	3.8	3.2	2.5	1.8	1.2	1.8	1.8	2.5	3.2	3.2
145°	3.8	3.8	3.2	1.8	1.2	1.2	1.2	1.8	2.5	2.5	3.2
147.5°	3.2	3.2	2.5	1.8	1.2	0.6	1.2	1.8	1.8	2.5	2.5
150°	2.5	2.5	1.8	1.2	0.6	0.0	0.6	1.2	1.8	1.8	1.8
152.5°	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.6	1.2	1.2	1.8
155°	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	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)