

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: P240916

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240916
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-AF24-80-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 8157 lumens
Efficiency: N/A
Efficacy: 98.3 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 - U3 - G2

Input Watts (W): 83
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

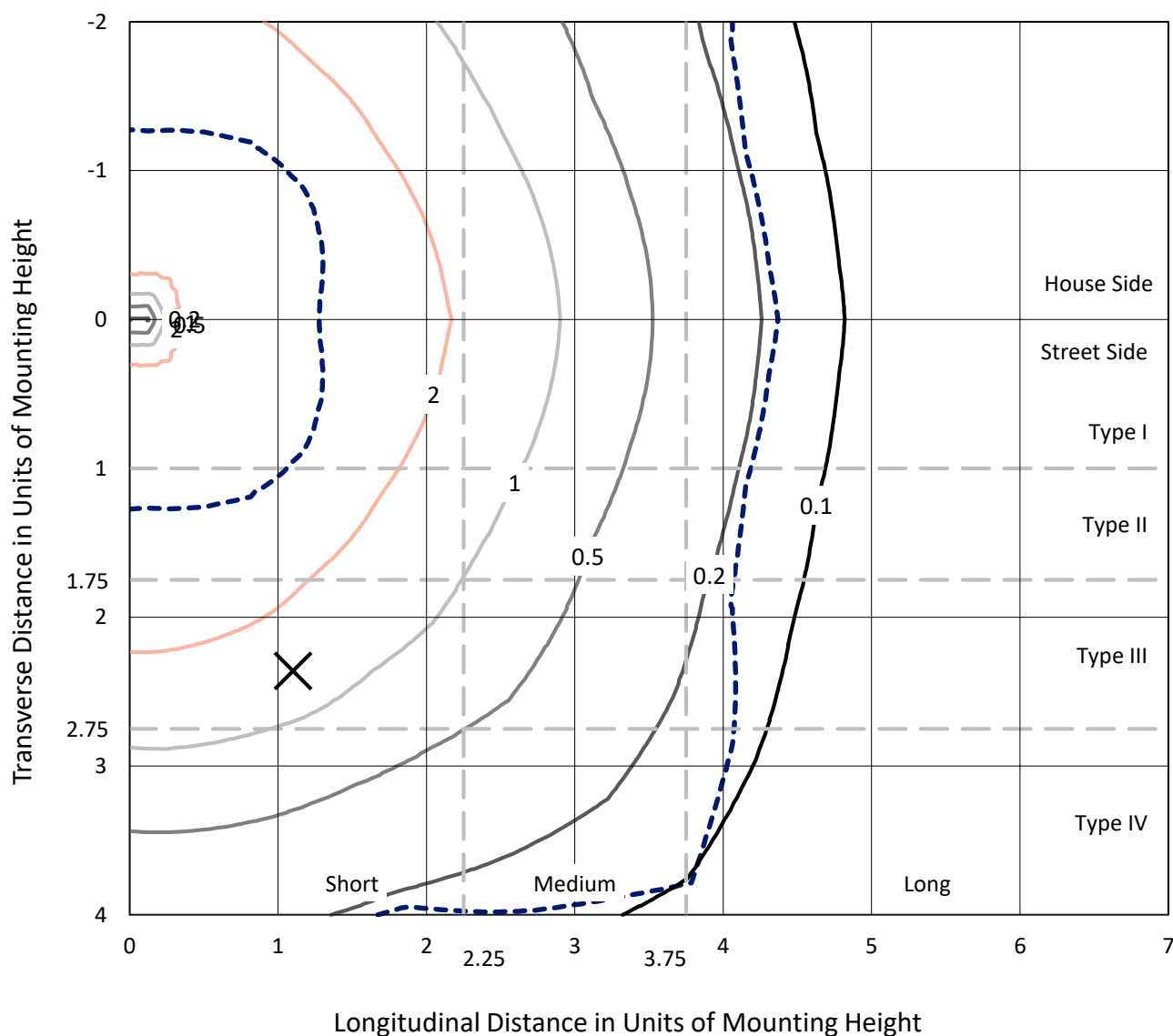


REPORT NUMBER: P240916

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

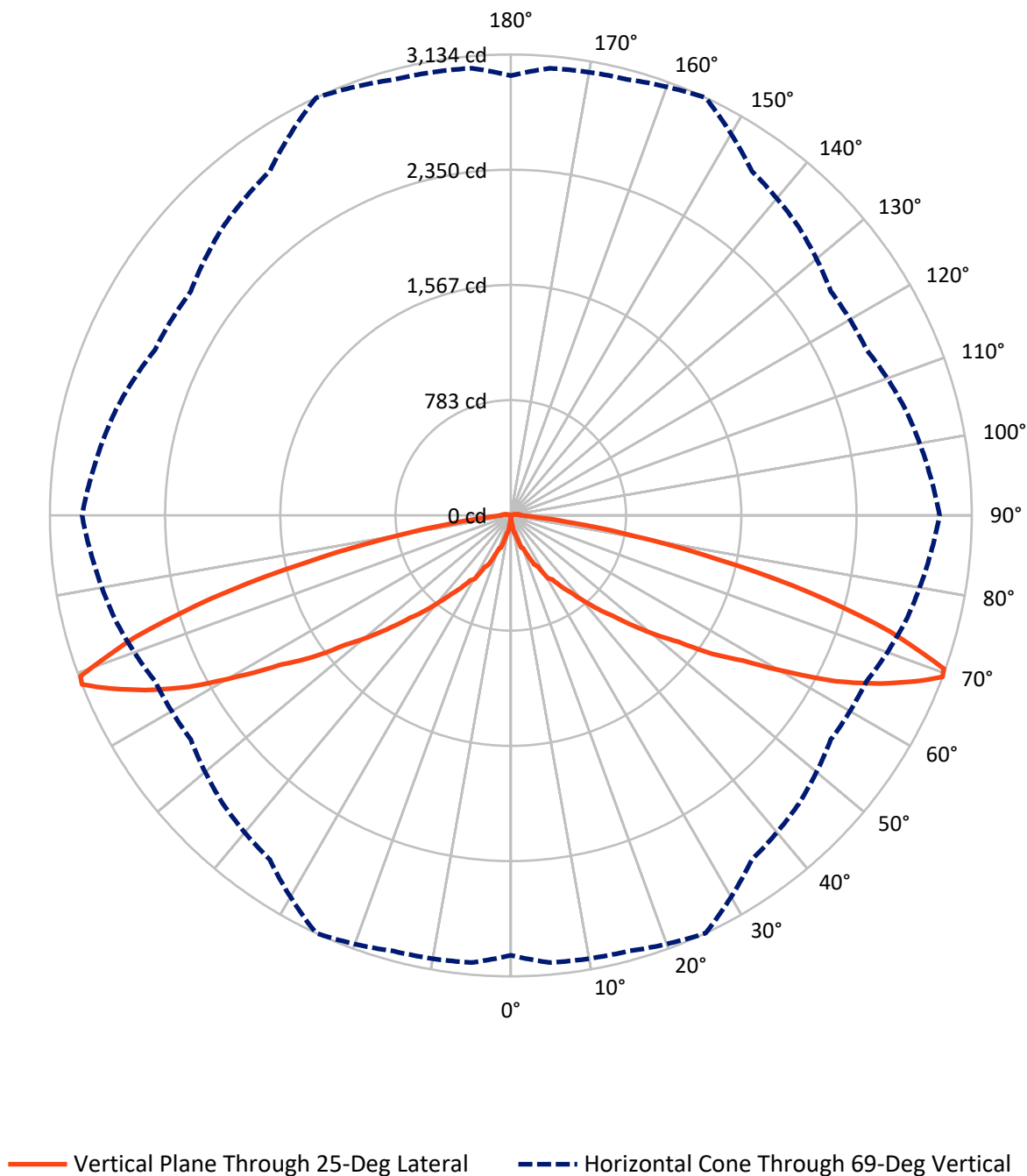


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P240916

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-CL

Luminous Intensity Polar Plot



REPORT NUMBER: P240916

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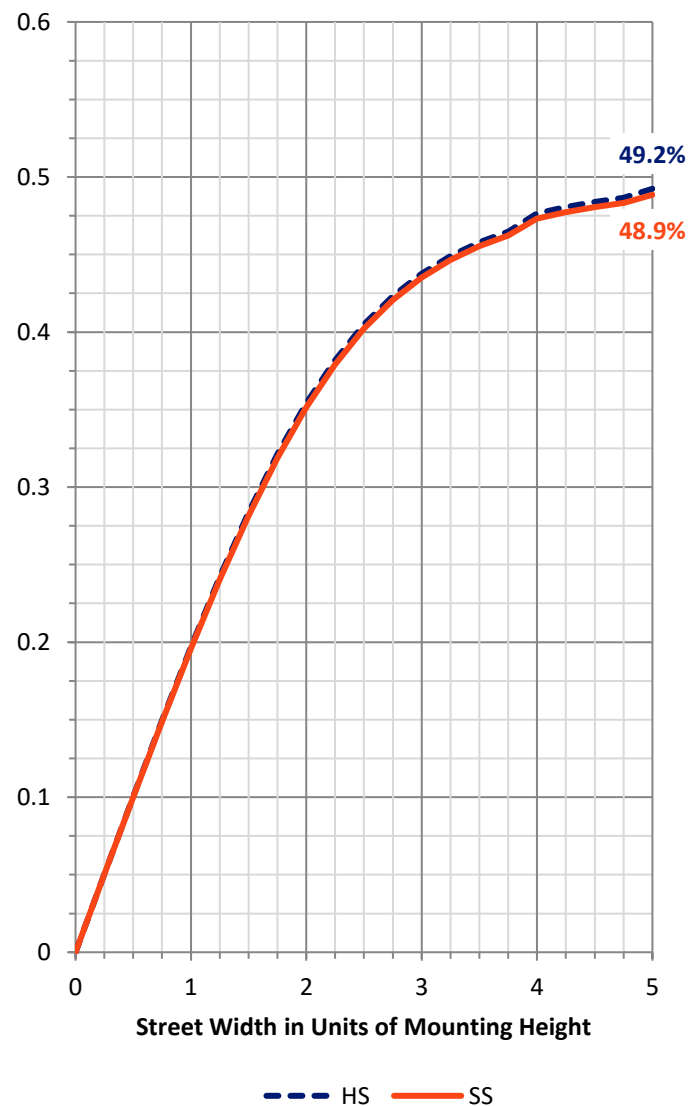
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4027.7	50.8	4078.5
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	4027.7	50.8	4078.5
	% Fixture	49.4	0.6	50.0
Total	Lumens	8055.5	101.5	8157.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	48.1	0.6
20°-30°	179.3	2.2
30°-40°	407.0	5.0
40°-50°	780.3	9.6
50°-60°	1505.1	18.5
60°-70°	2589.2	31.7
70°-80°	2210.1	27.1
80°-90°	332.0	4.1
90°-100°	54.3	0.7
100°-110°	24.6	0.3
110°-120°	9.8	0.1
120°-130°	6.4	0.1
130°-140°	4.0	0.0
140°-150°	2.0	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8055.5	98.8
0°-180°	8157.0	100.0

Coefficient of Utilization



REPORT NUMBER: P240916

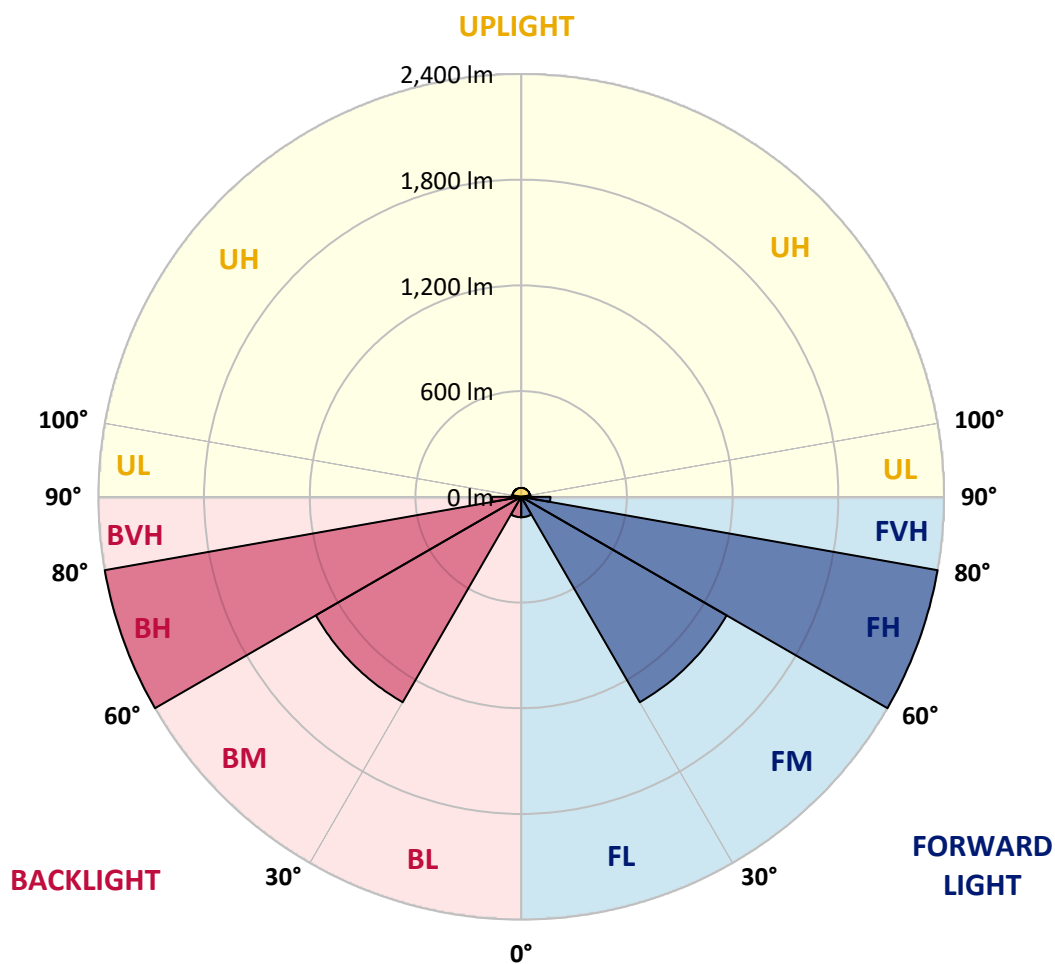
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.0	1.4			
FM	(30°-60°)	1346.2	16.5			
FH	(60°-80°)	2399.7	29.4			G2/5000
FVH	(80°-90°)	166.0	2.0			G2/225
BL	(0°-30°)	116.0	1.4	B1/500		
BM	(30°-60°)	1346.2	16.5	B2/2500		
BH	(60°-80°)	2399.7	29.4	B3/2500		G2/5000
BVH	(80°-90°)	166.0	2.0			G2/225
UL	(90°-100°)	54.3	0.7		U3/500	
UH	(100°-180°)	50.8	0.6		U3/500	

BUG Rating: B3-U3-G2

Type V Short



REPORT NUMBER: P240916

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	36.8	36.8	36.8	34.9	34.9	38.7	26.4	20.8	19.8	17.0	17.0
5°	41.5	42.5	39.7	37.7	36.8	38.7	39.7	36.8	22.6	17.9	16.1
7.5°	69.9	75.5	68.9	61.4	58.5	40.6	35.9	39.7	30.2	18.9	17.9
10°	122.7	121.7	124.6	116.1	84.0	65.2	53.8	36.8	44.4	34.0	32.1
12.5°	124.6	122.7	123.7	123.7	119.9	107.6	78.4	85.9	92.5	99.1	95.3
15°	217.1	213.3	194.5	168.0	119.9	146.3	148.2	152.9	137.8	132.2	129.3
17.5°	245.4	242.5	238.8	229.3	208.6	183.1	180.2	180.2	203.0	229.3	214.2
20°	271.8	266.2	240.7	236.9	255.7	230.3	221.8	269.0	290.7	313.3	304.8
22.5°	381.4	392.6	384.1	296.3	276.5	276.5	308.6	320.9	322.7	333.2	325.6
25°	390.8	396.4	387.0	368.1	349.2	322.7	344.5	358.6	416.2	437.0	432.3
27.5°	497.4	501.1	451.1	395.5	399.3	386.1	387.9	441.7	494.6	498.4	519.1
30°	536.1	540.8	516.3	495.5	439.9	438.8	460.6	497.4	559.7	605.0	641.8
32.5°	656.9	636.2	569.2	521.0	496.4	488.9	505.8	575.7	643.7	681.5	726.7
35°	724.9	734.3	720.2	597.4	541.8	570.1	573.9	602.2	664.5	730.5	757.0
37.5°	833.4	836.3	742.8	668.2	595.6	643.7	664.5	665.4	745.6	824.0	845.7
40°	903.3	929.7	869.3	763.5	663.5	693.8	697.4	777.7	852.3	903.3	937.2
42.5°	1007.1	1006.2	941.9	871.1	741.8	770.2	787.2	817.3	939.1	1000.4	1034.4
45°	1121.3	1119.4	1061.8	975.9	862.7	836.3	861.7	947.6	1077.9	1128.8	1111.8
47.5°	1264.8	1273.3	1215.7	1118.5	969.3	1016.5	983.5	1099.6	1146.7	1211.9	1254.3
50°	1412.9	1421.4	1350.6	1272.2	1112.8	1116.6	1132.6	1223.2	1297.8	1400.6	1445.9
52.5°	1610.2	1617.7	1547.9	1429.0	1303.4	1315.7	1309.1	1356.3	1494.1	1600.7	1584.7
55°	1826.3	1823.5	1738.5	1661.2	1551.7	1510.2	1484.6	1608.3	1690.4	1772.6	1789.6
57.5°	2145.3	2112.3	2010.4	1862.2	1741.4	1765.9	1745.2	1781.1	1913.1	2033.9	2066.1
60°	2379.4	2400.1	2326.6	2159.4	1977.4	1968.9	1985.9	2053.8	2148.2	2223.7	2268.1
62.5°	2737.1	2717.3	2627.7	2483.2	2319.0	2328.4	2255.8	2308.6	2364.3	2470.9	2467.2
65°	2897.6	2892.9	2834.3	2757.9	2610.7	2554.9	2484.1	2510.6	2565.4	2622.9	2708.8
67.5°	2999.5	3058.0	3024.0	3001.4	2791.8	2748.5	2594.6	2636.1	2705.0	2779.6	2840.0
69°	2990.1	3051.5	3067.4	3133.5	2857.0	2770.2	2656.0	2668.3	2778.6	2867.3	2914.6
70°	2935.4	3013.7	3014.6	3123.2	2854.1	2840.9	2682.4	2663.5	2797.6	2882.5	2940.1
72.5°	2592.7	2643.7	2680.5	2694.7	2695.6	2842.8	2661.6	2513.4	2630.5	2801.4	2799.4
75°	2004.7	2061.3	2136.8	2111.4	2320.9	2580.5	2406.8	2151.0	2165.2	2259.5	2282.2
77.5°	1261.9	1267.5	1365.7	1444.1	1788.5	2056.6	1881.1	1531.9	1371.4	1374.2	1428.0
80°	721.1	723.0	777.7	858.9	1100.5	1411.1	1159.0	862.7	674.8	665.4	659.7
82.5°	344.5	337.0	357.7	423.8	571.0	712.6	579.5	329.4	263.3	289.8	293.5
85°	123.7	146.3	166.1	189.8	262.4	274.7	203.9	169.0	173.7	163.3	168.0
87.5°	77.4	79.3	94.4	101.9	109.5	114.2	127.5	114.2	116.1	96.3	90.6
90°	54.7	55.6	67.9	69.9	75.5	76.4	73.7	73.7	70.8	55.6	57.6
92.5°	42.5	41.5	52.9	59.4	65.2	61.4	64.1	55.6	53.8	40.6	39.7
95°	52.9	52.9	57.6	60.5	53.8	45.3	51.9	50.0	48.2	35.9	34.9
97.5°	30.2	32.1	43.4	46.2	45.3	36.8	44.4	45.3	43.4	31.1	26.4
100°	26.4	29.3	38.7	41.5	39.7	31.1	39.7	41.5	38.7	27.4	24.6
102.5°	23.6	25.5	32.1	35.9	32.1	23.6	32.1	34.9	32.1	22.6	20.8
105°	19.8	20.8	22.6	26.4	22.6	17.9	23.6	25.5	20.8	17.9	17.0
107.5°	17.0	17.0	16.1	17.9	16.1	14.1	17.0	17.9	15.1	15.1	15.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	16.1	15.1	12.3	12.3	12.3	11.4	12.3	13.2	12.3	14.1	14.1
112.5°	14.1	13.2	10.3	9.4	9.4	9.4	10.3	10.3	10.3	13.2	13.2
115°	13.2	12.3	9.4	7.6	8.5	8.5	8.5	8.5	9.4	12.3	13.2
117.5°	13.2	12.3	8.5	7.6	6.6	6.6	7.6	7.6	9.4	12.3	12.3
120°	12.3	11.4	8.5	6.6	5.6	5.6	6.6	7.6	9.4	12.3	12.3
122.5°	11.4	11.4	7.6	5.6	5.6	5.6	5.6	6.6	8.5	11.4	11.4
125°	10.3	10.3	7.6	5.6	4.7	4.7	5.6	6.6	8.5	11.4	11.4
127.5°	10.3	9.4	7.6	4.7	4.7	4.7	4.7	5.6	7.6	10.3	11.4
130°	9.4	9.4	6.6	4.7	3.8	3.8	4.7	5.6	7.6	9.4	10.3
132.5°	9.4	8.5	6.6	3.8	3.8	3.8	3.8	4.7	6.6	8.5	9.4
135°	7.6	7.6	5.6	3.8	2.9	2.9	3.8	4.7	5.6	7.6	8.5
137.5°	7.6	6.6	5.6	3.8	2.9	2.9	2.9	3.8	5.6	6.6	7.6
140°	6.6	6.6	4.7	3.8	2.9	2.9	2.9	3.8	4.7	5.6	6.6
142.5°	5.6	5.6	4.7	3.8	2.9	1.8	2.9	2.9	3.8	4.7	4.7
145°	5.6	5.6	4.7	2.9	1.8	1.8	1.8	2.9	3.8	3.8	4.7
147.5°	4.7	4.7	3.8	2.9	1.8	0.9	1.8	2.9	2.9	3.8	3.8
150°	3.8	3.8	2.9	1.8	0.9	0.0	0.9	1.8	2.9	2.9	2.9
152.5°	2.9	2.9	1.8	0.9	0.0	0.0	0.0	0.9	1.8	1.8	2.9
155°	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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)