

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: P240909

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240909
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-AF24-100-D-U-5WQ-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 8358.3 lumens
Efficiency: N/A
Efficacy: 87.1 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): 96
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



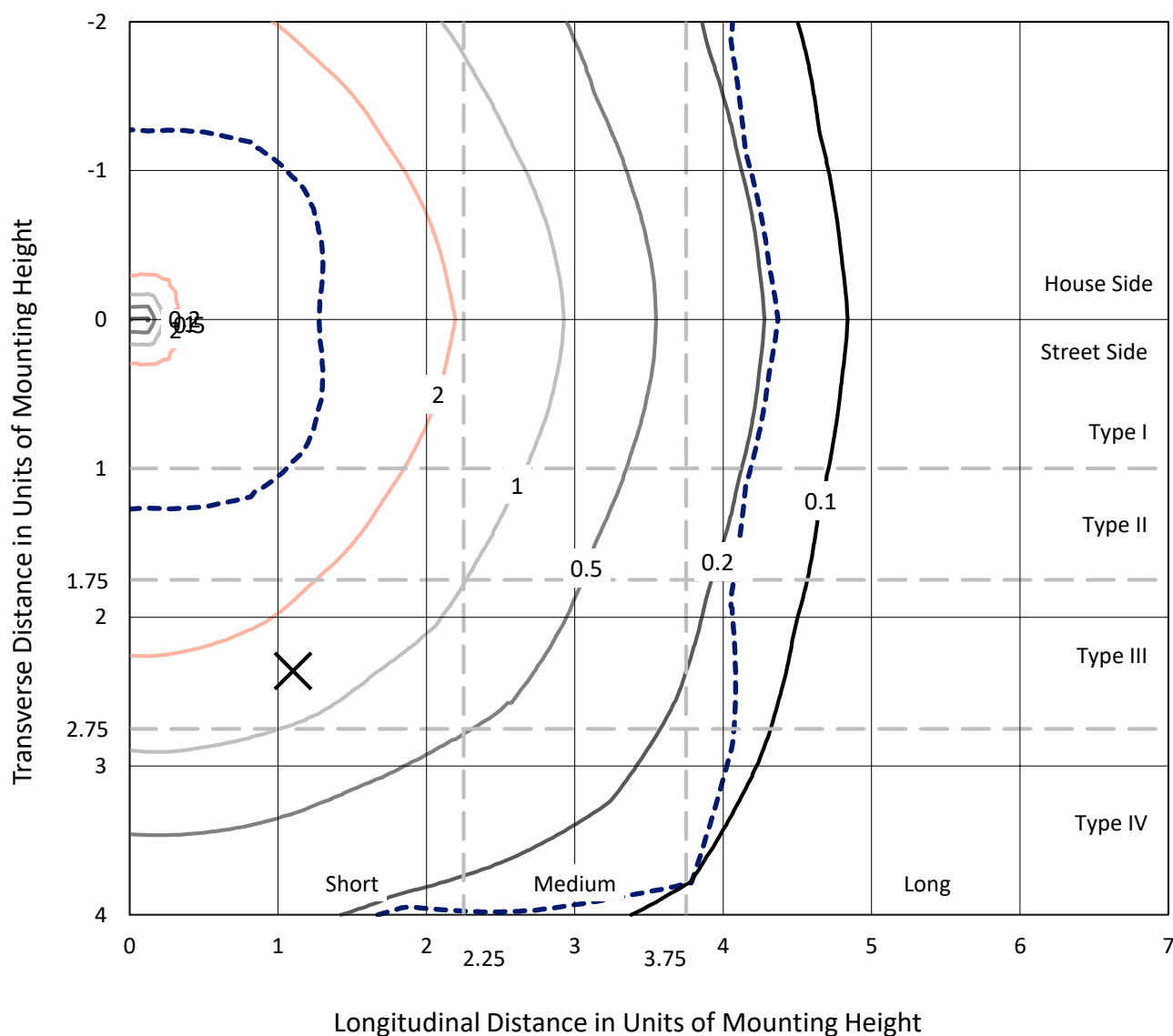
REPORT NUMBER: P240909

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

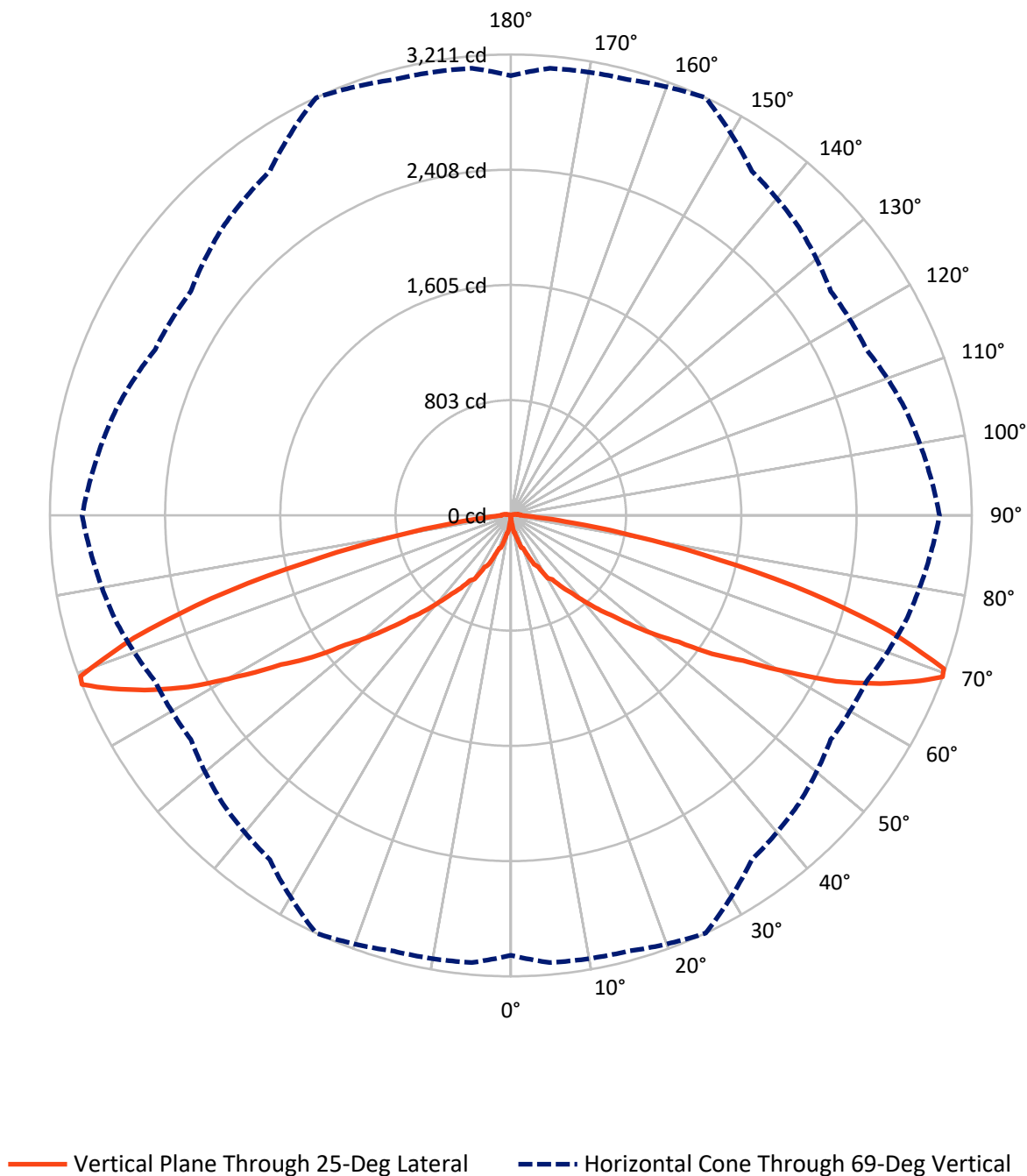


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P240909

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240909

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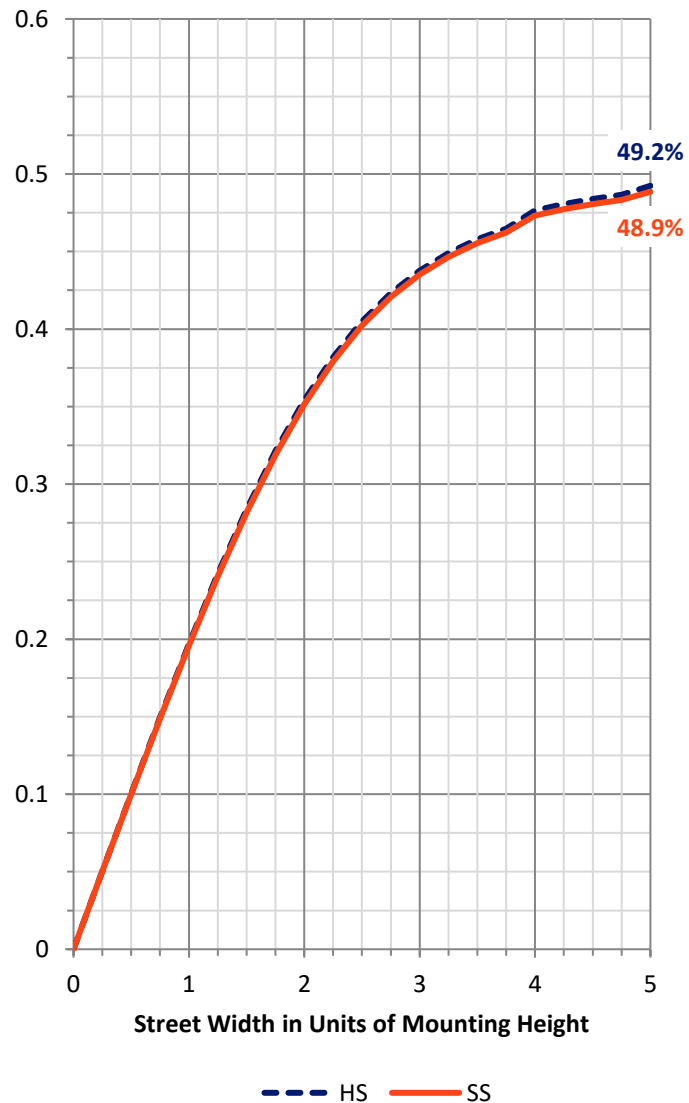
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4127.1	52.0	4179.2
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	4127.1	52.0	4179.2
	% Fixture	49.4	0.6	50.0
Total	Lumens	8254.3	104.1	8358.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	49.3	0.6
20°-30°	183.7	2.2
30°-40°	417.0	5.0
40°-50°	799.5	9.6
50°-60°	1542.2	18.5
60°-70°	2653.1	31.7
70°-80°	2264.7	27.1
80°-90°	340.1	4.1
90°-100°	55.6	0.7
100°-110°	25.2	0.3
110°-120°	10.1	0.1
120°-130°	6.6	0.1
130°-140°	4.1	0.0
140°-150°	2.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8254.3	98.8
0°-180°	8358.3	100.0

Coefficient of Utilization



REPORT NUMBER: P240909

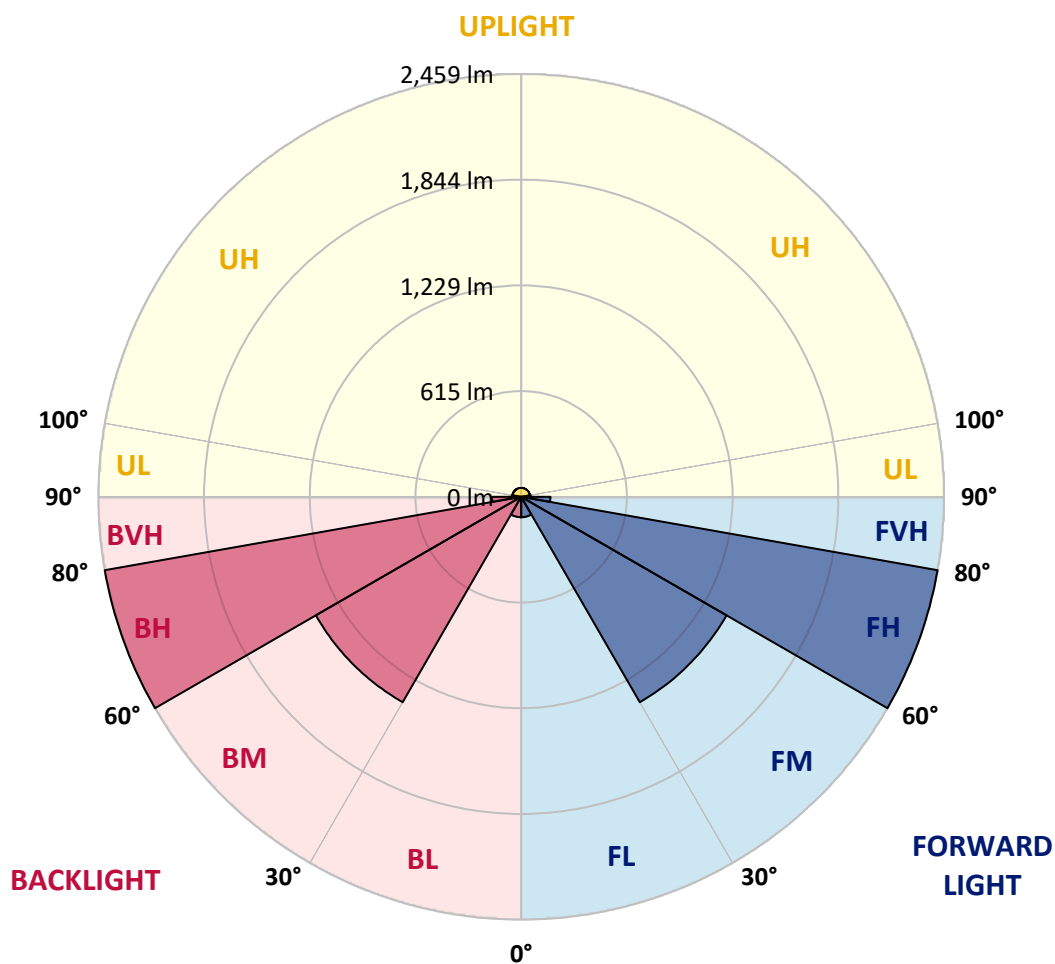
CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.8	1.4			
FM	(30°-60°)	1379.4	16.5			
FH	(60°-80°)	2458.9	29.4			G2/5000
FVH	(80°-90°)	170.1	2.0			G2/225
BL	(0°-30°)	118.8	1.4	B1/500		
BM	(30°-60°)	1379.4	16.5	B2/2500		
BH	(60°-80°)	2458.9	29.4	B3/2500		G2/5000
BVH	(80°-90°)	170.1	2.0			G2/225
UL	(90°-100°)	55.6	0.7		U3/500	
UH	(100°-180°)	52.0	0.6		U3/500	

BUG Rating: B3-U3-G2

Type V Short





REPORT NUMBER: P240909

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	37.7	37.7	37.7	35.8	35.8	39.7	27.1	21.3	20.3	17.4	17.4
5°	42.5	43.4	40.7	38.7	37.7	39.7	40.7	37.7	23.2	18.3	16.4
7.5°	71.6	77.3	70.6	62.9	60.0	41.6	36.7	40.7	30.9	19.3	18.3
10°	125.7	124.8	127.7	119.0	86.1	66.7	55.1	37.7	45.5	34.9	32.9
12.5°	127.7	125.7	126.7	126.7	122.8	110.3	80.3	88.1	94.7	101.5	97.7
15°	222.5	218.5	199.2	172.2	122.8	149.9	151.9	156.7	141.2	135.4	132.5
17.5°	251.4	248.6	244.6	235.0	213.7	187.6	184.7	184.7	207.9	235.0	219.5
20°	278.5	272.7	246.6	242.8	262.1	236.0	227.3	275.7	297.8	321.1	312.4
22.5°	390.7	402.3	393.7	303.6	283.4	283.4	316.3	328.9	330.7	341.4	333.7
25°	400.4	406.2	396.5	377.2	357.9	330.7	353.0	367.5	426.5	447.8	442.9
27.5°	509.7	513.5	462.2	405.3	409.0	395.5	397.4	452.7	506.8	510.7	531.9
30°	549.3	554.2	529.1	507.7	450.7	449.7	472.0	509.7	573.5	619.9	657.6
32.5°	673.1	651.8	583.2	533.8	508.7	501.0	518.4	590.0	659.6	698.2	744.7
35°	742.8	752.5	737.9	612.2	555.1	584.1	588.1	617.0	680.9	748.5	775.6
37.5°	854.0	856.9	761.1	684.7	610.2	659.6	680.9	681.8	764.0	844.3	866.5
40°	925.5	952.6	890.7	782.4	679.9	710.8	714.7	796.9	873.3	925.5	960.4
42.5°	1032.0	1031.0	965.2	892.6	760.1	789.2	806.6	837.6	962.2	1025.2	1060.0
45°	1149.0	1147.0	1088.0	1000.0	883.9	856.9	883.1	971.0	1104.5	1156.7	1139.2
47.5°	1296.0	1304.7	1245.7	1146.0	993.2	1041.6	1007.7	1126.7	1175.1	1241.8	1285.3
50°	1447.8	1456.5	1384.0	1303.7	1140.2	1144.2	1160.6	1253.4	1329.8	1435.2	1481.7
52.5°	1650.0	1657.7	1586.1	1464.2	1335.5	1348.1	1341.3	1389.8	1530.9	1640.2	1623.8
55°	1871.4	1868.5	1781.5	1702.2	1589.9	1547.4	1521.3	1647.9	1732.1	1816.2	1833.7
57.5°	2198.3	2164.4	2060.0	1908.1	1784.3	1809.6	1788.2	1824.9	1960.3	2084.1	2117.0
60°	2438.1	2459.4	2383.9	2212.8	2026.1	2017.5	2034.9	2104.5	2201.1	2278.6	2324.1
62.5°	2804.6	2784.4	2692.4	2544.5	2376.3	2385.9	2311.5	2365.6	2422.8	2532.0	2528.0
65°	2969.1	2964.2	2904.3	2826.0	2675.1	2618.1	2545.5	2572.6	2628.7	2687.7	2775.6
67.5°	3073.6	3133.4	3098.7	3075.4	2860.7	2816.2	2658.6	2701.2	2771.8	2848.2	2910.1
69°	3063.8	3126.8	3143.2	3210.9	2927.5	2838.5	2721.5	2734.1	2847.2	2938.1	2986.5
70°	3007.8	3088.0	3089.0	3200.2	2924.7	2911.1	2748.6	2729.2	2866.5	2953.6	3012.6
72.5°	2656.7	2709.0	2746.7	2761.2	2762.1	2913.0	2727.3	2575.5	2695.4	2870.5	2868.5
75°	2054.2	2112.2	2189.5	2163.5	2378.1	2644.2	2466.2	2204.1	2218.6	2315.3	2338.4
77.5°	1293.1	1298.9	1399.4	1479.7	1832.8	2107.4	1927.5	1569.6	1405.3	1408.2	1463.3
80°	738.9	740.8	796.9	880.1	1127.7	1445.8	1187.6	883.9	691.5	681.8	676.0
82.5°	353.0	345.3	366.6	434.2	585.1	730.2	593.9	337.5	269.9	296.8	300.8
85°	126.7	149.9	170.2	194.4	268.9	281.5	208.9	173.0	178.0	167.2	172.2
87.5°	79.3	81.3	96.7	104.5	112.2	117.0	130.6	117.0	119.0	98.7	92.9
90°	56.0	57.1	69.6	71.6	77.3	78.3	75.4	75.4	72.5	57.1	59.0
92.5°	43.4	42.5	54.2	60.9	66.7	62.9	65.8	57.1	55.1	41.6	40.7
95°	54.2	54.2	59.0	62.0	55.1	46.4	53.2	51.3	49.2	36.7	35.8
97.5°	30.9	32.9	44.5	47.4	46.4	37.7	45.5	46.4	44.5	31.9	27.1
100°	27.1	29.9	39.7	42.5	40.7	31.9	40.7	42.5	39.7	28.1	25.1
102.5°	24.1	26.1	32.9	36.7	32.9	24.1	32.9	35.8	32.9	23.2	21.3
105°	20.3	21.3	23.2	27.1	23.2	18.3	24.1	26.1	21.3	18.3	17.4
107.5°	17.4	17.4	16.4	18.3	16.4	14.5	17.4	18.3	15.6	15.6	15.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	16.4	15.6	12.6	12.6	12.6	11.6	12.6	13.5	12.6	14.5	14.5
112.5°	14.5	13.5	10.6	9.8	9.8	9.8	10.6	10.6	10.6	13.5	13.5
115°	13.5	12.6	9.8	7.7	8.7	8.7	8.7	8.7	9.8	12.6	13.5
117.5°	13.5	12.6	8.7	7.7	6.8	6.8	7.7	7.7	9.8	12.6	12.6
120°	12.6	11.6	8.7	6.8	5.8	5.8	6.8	7.7	9.8	12.6	12.6
122.5°	11.6	11.6	7.7	5.8	5.8	5.8	5.8	6.8	8.7	11.6	11.6
125°	10.6	10.6	7.7	5.8	4.8	4.8	5.8	6.8	8.7	11.6	11.6
127.5°	10.6	9.8	7.7	4.8	4.8	4.8	4.8	5.8	7.7	10.6	11.6
130°	9.8	9.8	6.8	4.8	3.9	3.9	4.8	5.8	7.7	9.8	10.6
132.5°	9.8	8.7	6.8	3.9	3.9	3.9	3.9	4.8	6.8	8.7	9.8
135°	7.7	7.7	5.8	3.9	2.9	2.9	3.9	4.8	5.8	7.7	8.7
137.5°	7.7	6.8	5.8	3.9	2.9	2.9	2.9	3.9	5.8	6.8	7.7
140°	6.8	6.8	4.8	3.9	2.9	2.9	2.9	3.9	4.8	5.8	6.8
142.5°	5.8	5.8	4.8	3.9	2.9	1.9	2.9	2.9	3.9	4.8	4.8
145°	5.8	5.8	4.8	2.9	1.9	1.9	1.9	2.9	3.9	3.9	4.8
147.5°	4.8	4.8	3.9	2.9	1.9	1.0	1.9	2.9	2.9	3.9	3.9
150°	3.9	3.9	2.9	1.9	1.0	0.0	1.0	1.9	2.9	2.9	2.9
152.5°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9	2.9
155°	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	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)