

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: P240907

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240907
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 7712.7 lumens
Efficiency: N/A
Efficacy: 92.9 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

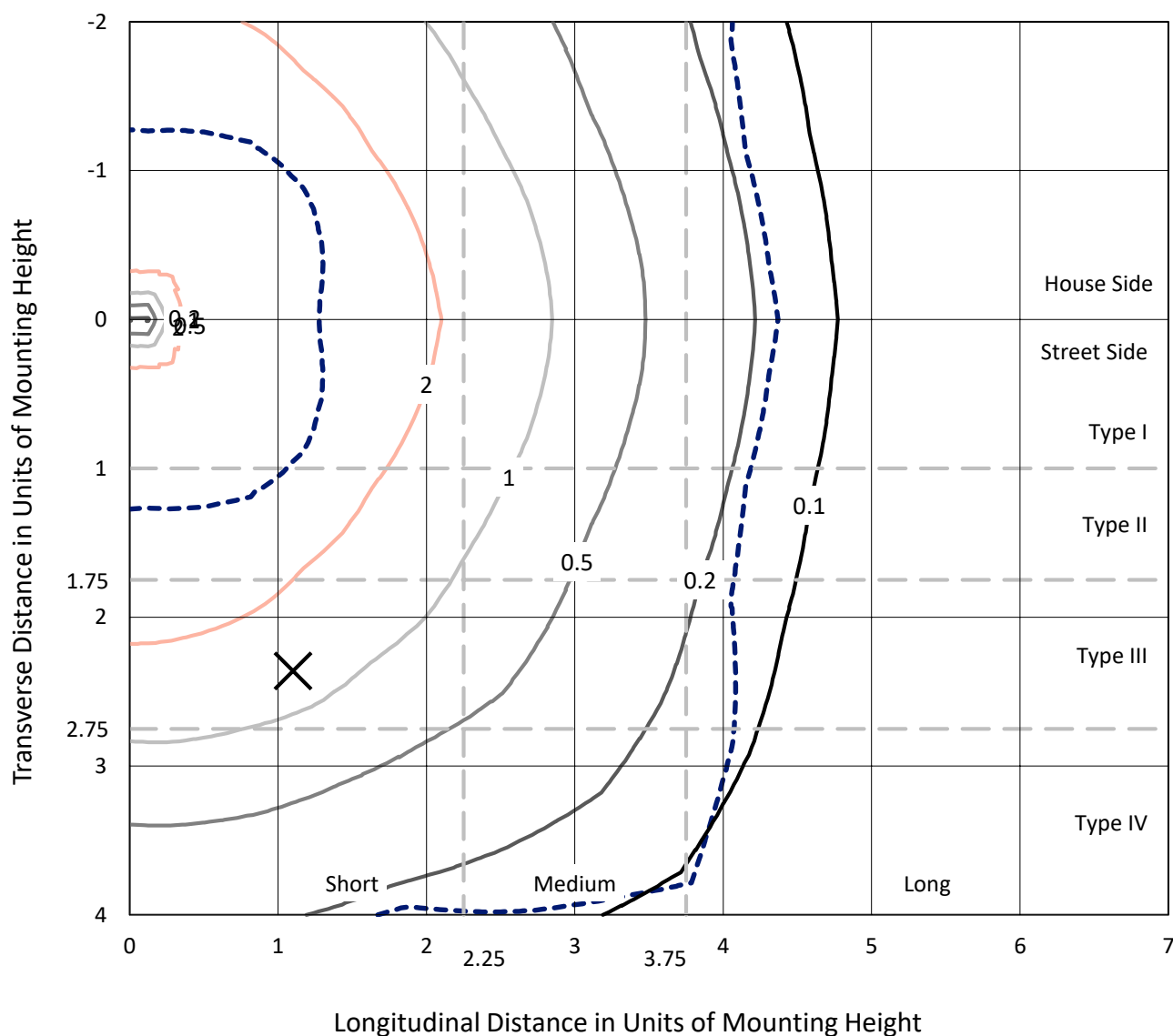


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

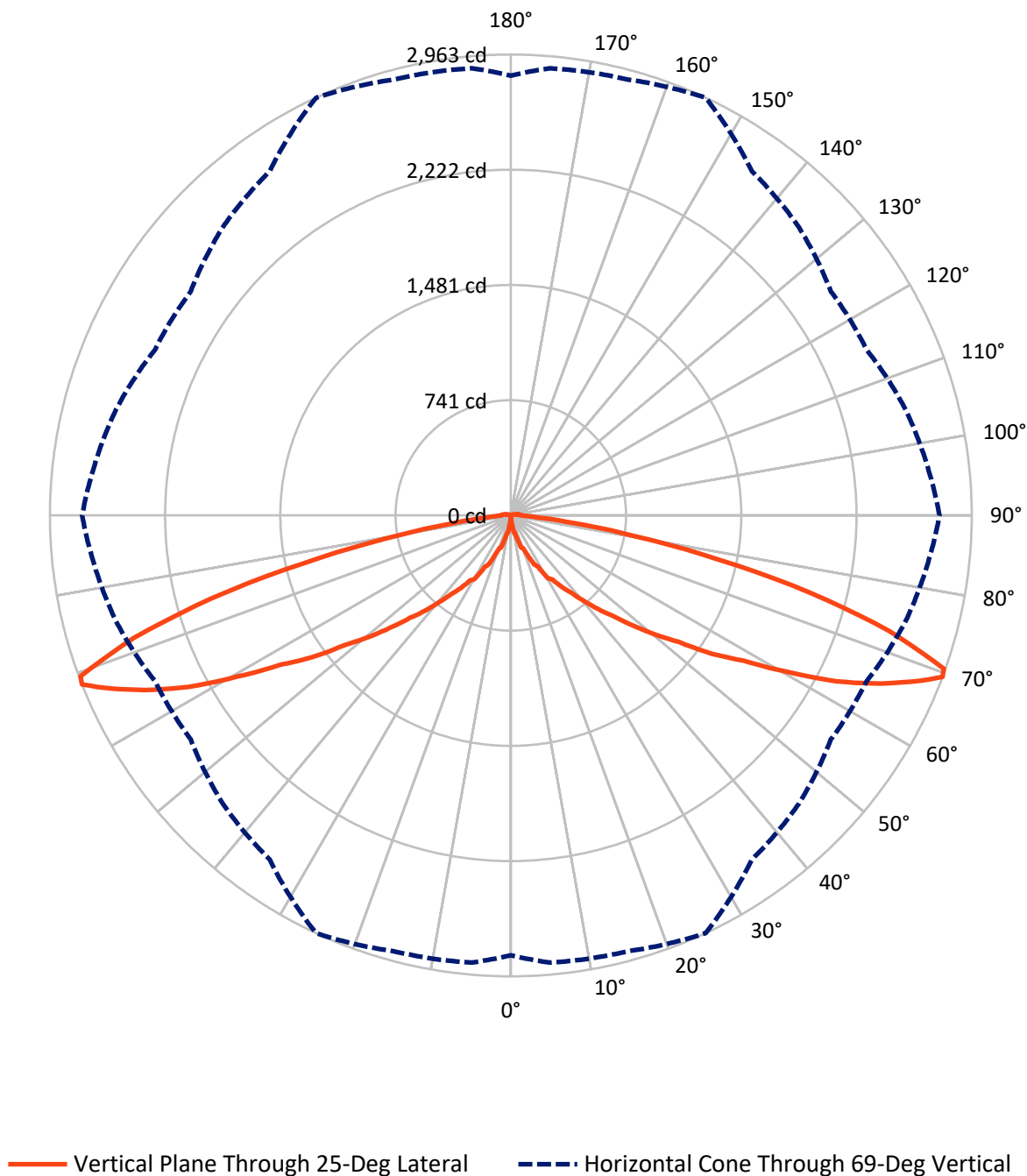


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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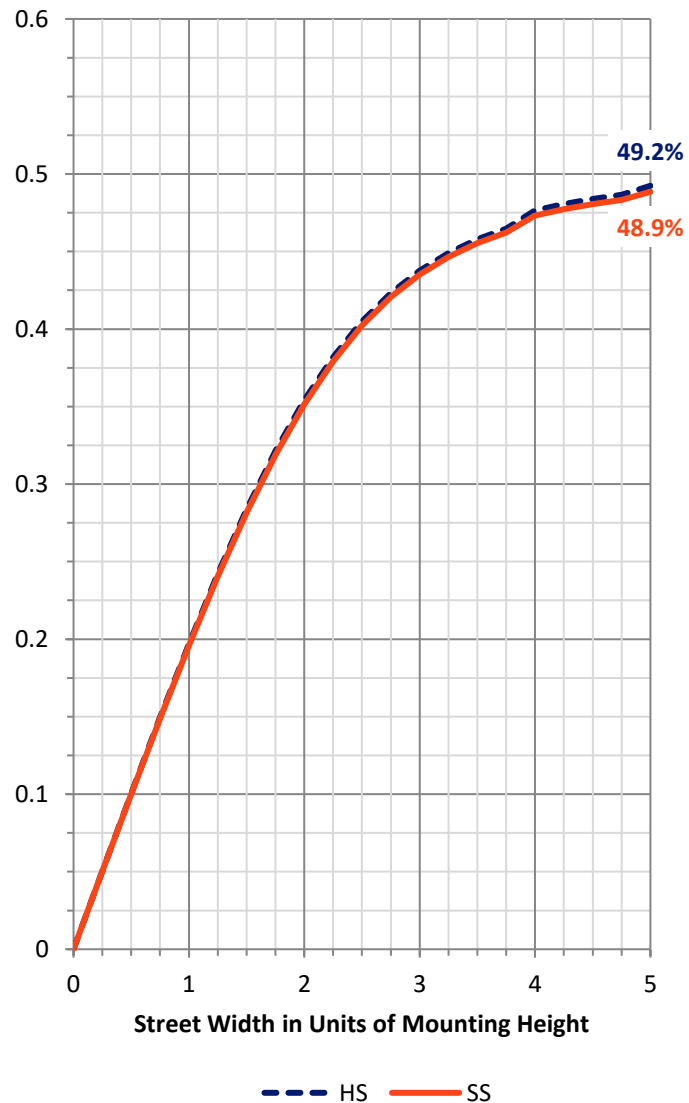
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3808.3	48.0	3856.3
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3808.3	48.0	3856.3
	% Fixture	49.4	0.6	50.0
Total	Lumens	7616.6	96.0	7712.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	45.5	0.6
20°-30°	169.5	2.2
30°-40°	384.8	5.0
40°-50°	737.8	9.6
50°-60°	1423.1	18.5
60°-70°	2448.1	31.7
70°-80°	2089.7	27.1
80°-90°	313.9	4.1
90°-100°	51.3	0.7
100°-110°	23.3	0.3
110°-120°	9.3	0.1
120°-130°	6.1	0.1
130°-140°	3.8	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°	7616.6	98.8
0°-180°	7712.7	100.0

Coefficient of Utilization



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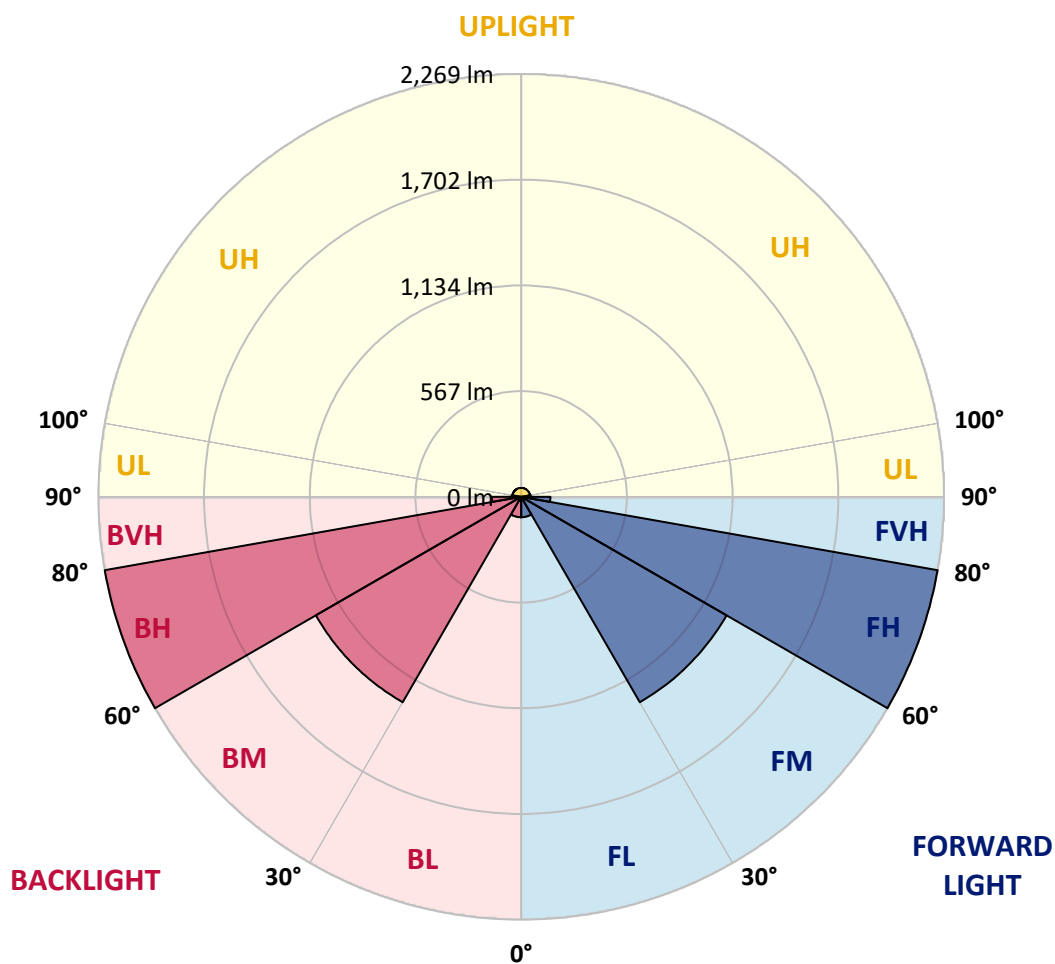
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.6	1.4			
FM	(30°-60°)	1272.8	16.5			
FH	(60°-80°)	2268.9	29.4			G2/5000
FVH	(80°-90°)	156.9	2.0			G2/225
BL	(0°-30°)	109.6	1.4	B0/110		
BM	(30°-60°)	1272.8	16.5	B2/2500		
BH	(60°-80°)	2268.9	29.4	B3/2500		G2/5000
BVH	(80°-90°)	156.9	2.0			G2/225
UL	(90°-100°)	51.3	0.7		U3/500	
UH	(100°-180°)	48.0	0.6		U2/50	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	34.9	34.9	34.9	33.0	33.0	36.6	25.0	19.6	18.8	16.1	16.1
5°	39.3	40.2	37.4	35.7	34.9	36.6	37.4	34.9	21.5	16.9	15.2
7.5°	66.0	71.3	65.1	58.0	55.2	38.4	33.9	37.4	28.5	17.8	16.9
10°	116.1	115.2	117.8	109.8	79.4	61.6	51.0	34.9	41.9	32.1	30.4
12.5°	117.8	116.1	116.9	116.9	113.3	101.7	74.1	81.2	87.4	93.8	90.1
15°	205.3	201.7	183.9	158.9	113.3	138.3	140.1	144.5	130.3	125.0	122.3
17.5°	232.0	229.3	225.7	216.9	197.2	173.1	170.5	170.5	191.9	216.9	202.5
20°	257.0	251.7	227.6	224.0	241.8	217.8	209.7	254.3	274.9	296.3	288.2
22.5°	360.5	371.3	363.2	280.2	261.4	261.4	291.8	303.4	305.2	315.0	307.9
25°	369.4	374.9	365.9	348.0	330.2	305.2	325.7	339.1	393.6	413.2	408.7
27.5°	470.3	473.8	426.5	373.8	377.5	365.0	366.8	417.7	467.6	471.2	490.8
30°	506.9	511.4	488.2	468.5	415.8	414.9	435.5	470.3	529.3	572.1	606.8
32.5°	621.1	601.5	538.1	492.6	469.4	462.2	478.3	544.3	608.6	644.3	687.1
35°	685.4	694.4	680.9	564.9	512.2	538.9	542.6	569.4	628.2	690.7	715.7
37.5°	788.0	790.7	702.3	631.8	563.1	608.6	628.2	629.2	705.0	779.1	799.6
40°	854.1	879.0	821.9	721.9	627.3	655.9	659.5	735.4	805.9	854.1	886.2
42.5°	952.2	951.3	890.7	823.7	701.5	728.2	744.3	772.8	888.0	945.9	978.1
45°	1060.2	1058.4	1004.0	922.8	815.6	790.7	814.7	896.0	1019.2	1067.4	1051.3
47.5°	1195.9	1203.8	1149.4	1057.5	916.4	961.2	929.9	1039.7	1084.3	1145.9	1186.0
50°	1335.9	1344.0	1277.0	1203.0	1052.1	1055.8	1070.8	1156.6	1227.1	1324.3	1367.2
52.5°	1522.4	1529.6	1463.5	1351.1	1232.5	1244.0	1237.8	1282.3	1412.7	1513.6	1498.4
55°	1726.9	1724.1	1643.8	1570.6	1467.2	1427.9	1403.8	1520.7	1598.4	1675.9	1692.0
57.5°	2028.5	1997.3	1900.9	1760.7	1646.5	1669.7	1650.1	1684.0	1808.9	1923.2	1953.4
60°	2249.7	2269.5	2199.8	2041.8	1869.7	1861.6	1877.6	1941.9	2031.1	2102.4	2144.4
62.5°	2588.1	2569.2	2484.4	2348.0	2192.7	2201.6	2132.8	2182.9	2235.5	2336.3	2332.8
65°	2739.6	2735.2	2679.9	2607.6	2468.3	2415.7	2348.8	2373.8	2425.5	2479.9	2561.2
67.5°	2836.1	2891.4	2859.4	2837.9	2639.8	2598.7	2453.2	2492.5	2557.6	2628.1	2685.3
69°	2827.2	2885.2	2900.4	2962.8	2701.3	2619.3	2511.3	2522.9	2627.2	2711.2	2755.7
70°	2775.4	2849.5	2850.3	2953.0	2698.7	2686.1	2536.2	2518.4	2645.1	2725.5	2779.9
72.5°	2451.4	2499.7	2534.5	2547.8	2548.7	2688.0	2516.6	2376.5	2487.2	2648.7	2647.0
75°	1895.5	1949.0	2020.4	1996.3	2194.5	2439.9	2275.7	2033.9	2047.2	2136.4	2157.9
77.5°	1193.1	1198.5	1291.3	1365.4	1691.2	1944.6	1778.6	1448.3	1296.7	1299.3	1350.2
80°	681.8	683.6	735.4	812.2	1040.5	1334.2	1095.9	815.6	638.1	629.2	623.8
82.5°	325.7	318.6	338.2	400.7	540.0	673.8	547.9	311.5	249.0	274.0	277.5
85°	116.9	138.3	157.2	179.4	248.1	259.7	192.8	159.7	164.2	154.4	158.9
87.5°	73.2	75.0	89.3	96.3	103.5	107.9	120.5	107.9	109.8	91.0	85.7
90°	51.8	52.7	64.3	66.0	71.3	72.3	69.6	69.6	66.9	52.7	54.4
92.5°	40.2	39.3	49.9	56.3	61.6	58.0	60.6	52.7	51.0	38.4	37.4
95°	49.9	49.9	54.4	57.2	51.0	42.8	49.0	47.3	45.6	33.9	33.0
97.5°	28.5	30.4	41.1	43.7	42.8	34.9	41.9	42.8	41.1	29.5	25.0
100°	25.0	27.7	36.6	39.3	37.4	29.5	37.4	39.3	36.6	25.9	23.2
102.5°	22.3	24.1	30.4	33.9	30.4	22.3	30.4	33.0	30.4	21.5	19.6
105°	18.8	19.6	21.5	25.0	21.5	16.9	22.3	24.1	19.6	16.9	16.1
107.5°	16.1	16.1	15.2	16.9	15.2	13.4	16.1	16.9	14.3	14.3	14.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	15.2	14.3	11.6	11.6	11.6	10.7	11.6	12.4	11.6	13.4	13.4
112.5°	13.4	12.4	9.9	9.0	9.0	9.0	9.9	9.9	9.9	12.4	12.4
115°	12.4	11.6	9.0	7.1	8.0	8.0	8.0	8.0	9.0	11.6	12.4
117.5°	12.4	11.6	8.0	7.1	6.2	6.2	7.1	7.1	9.0	11.6	11.6
120°	11.6	10.7	8.0	6.2	5.4	5.4	6.2	7.1	9.0	11.6	11.6
122.5°	10.7	10.7	7.1	5.4	5.4	5.4	5.4	6.2	8.0	10.7	10.7
125°	9.9	9.9	7.1	5.4	4.5	4.5	5.4	6.2	8.0	10.7	10.7
127.5°	9.9	9.0	7.1	4.5	4.5	4.5	4.5	5.4	7.1	9.9	10.7
130°	9.0	9.0	6.2	4.5	3.6	3.6	4.5	5.4	7.1	9.0	9.9
132.5°	9.0	8.0	6.2	3.6	3.6	3.6	3.6	4.5	6.2	8.0	9.0
135°	7.1	7.1	5.4	3.6	2.7	2.7	3.6	4.5	5.4	7.1	8.0
137.5°	7.1	6.2	5.4	3.6	2.7	2.7	2.7	3.6	5.4	6.2	7.1
140°	6.2	6.2	4.5	3.6	2.7	2.7	2.7	3.6	4.5	5.4	6.2
142.5°	5.4	5.4	4.5	3.6	2.7	1.7	2.7	2.7	3.6	4.5	4.5
145°	5.4	5.4	4.5	2.7	1.7	1.7	1.7	2.7	3.6	3.6	4.5
147.5°	4.5	4.5	3.6	2.7	1.7	0.9	1.7	2.7	2.7	3.6	3.6
150°	3.6	3.6	2.7	1.7	0.9	0.0	0.9	1.7	2.7	2.7	2.7
152.5°	2.7	2.7	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.7
155°	1.7	1.7	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)