

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: P240917

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240917
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-AF24-90-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8822 lumens
Efficiency: N/A
Efficacy: 93.9 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: B4 - U3 - G2

Input Watts (W): 94
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



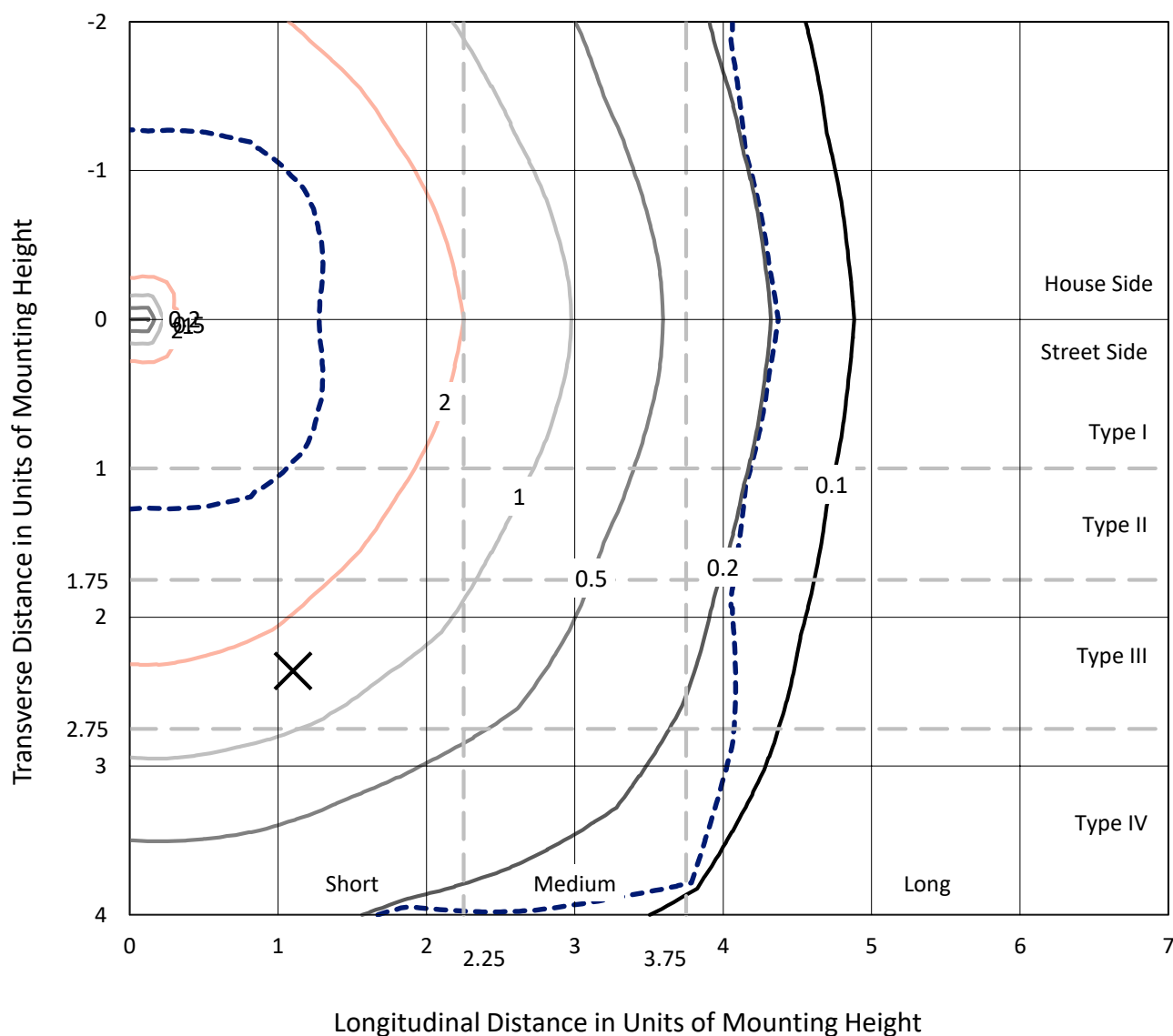
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

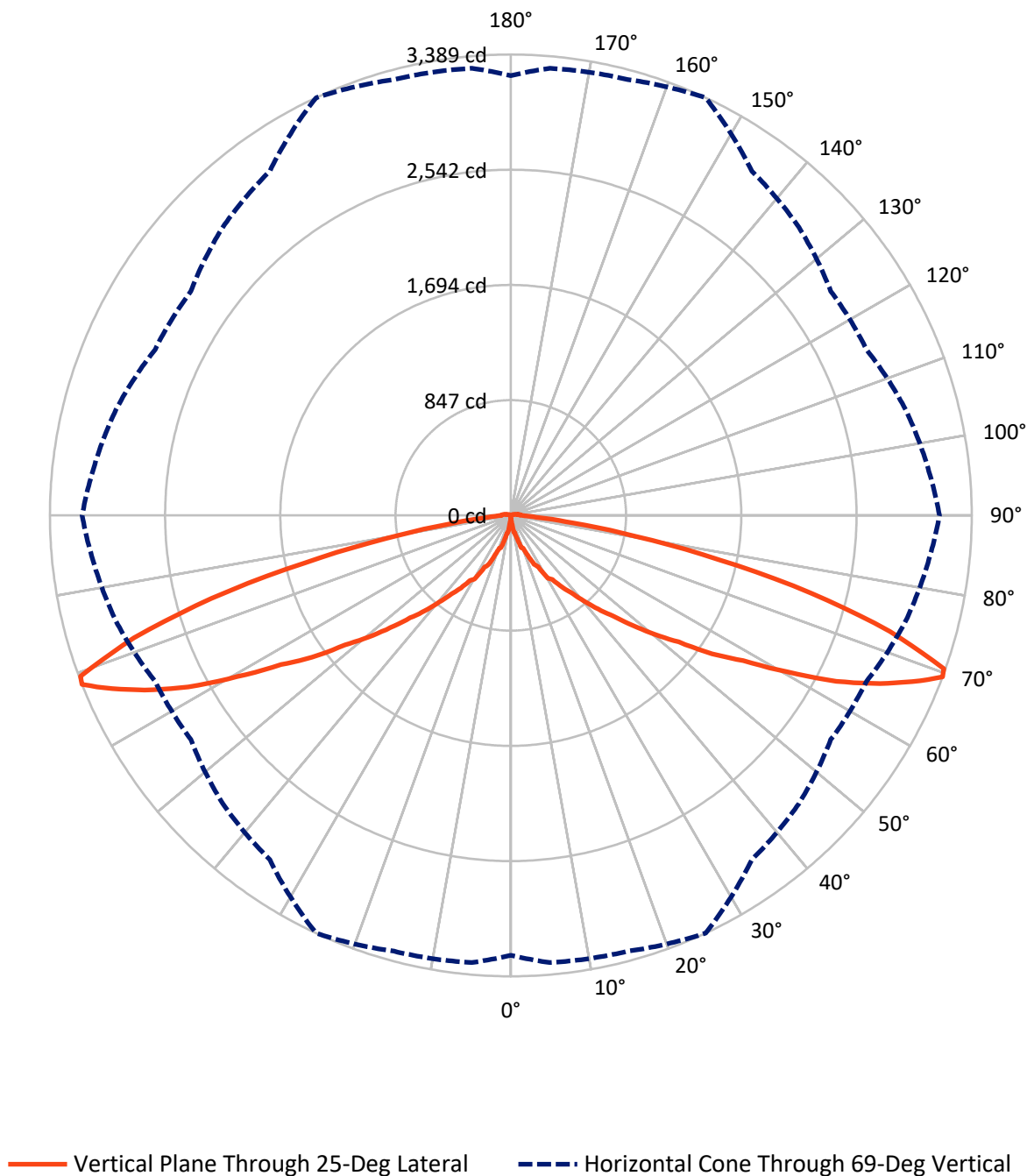


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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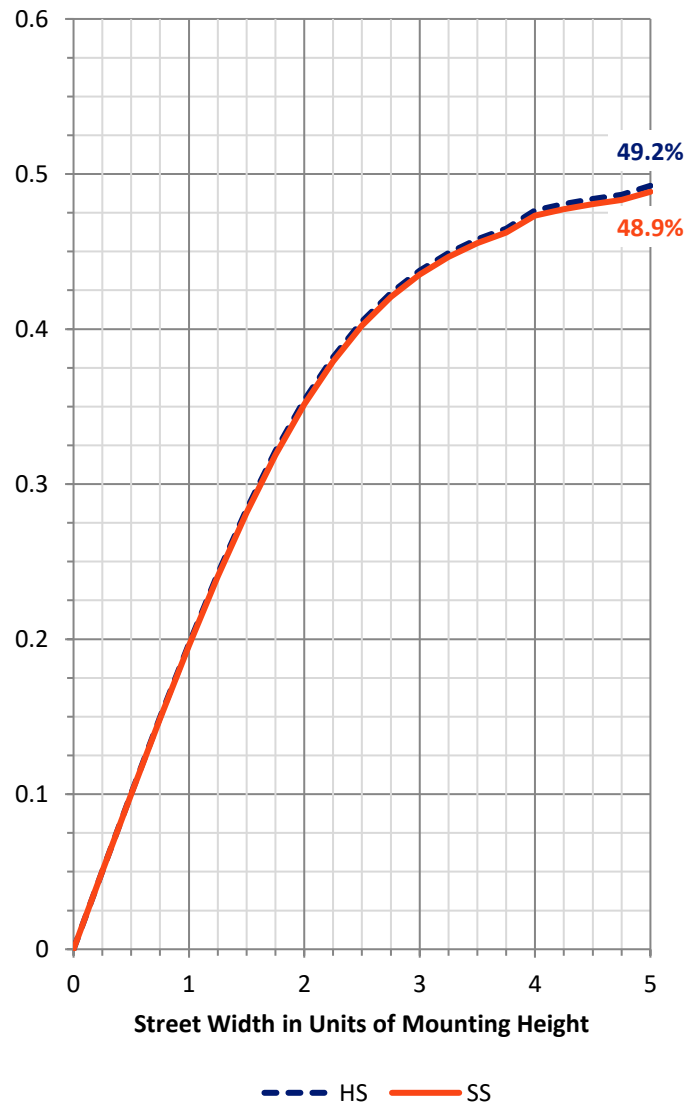
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4356.1	54.9	4411.0
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	4356.1	54.9	4411.0
	% Fixture	49.4	0.6	50.0
Total	Lumens	8712.1	109.9	8822.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	52.1	0.6
20°-30°	193.9	2.2
30°-40°	440.1	5.0
40°-50°	843.9	9.6
50°-60°	1627.7	18.5
60°-70°	2800.3	31.7
70°-80°	2390.3	27.1
80°-90°	359.0	4.1
90°-100°	58.7	0.7
100°-110°	26.6	0.3
110°-120°	10.6	0.1
120°-130°	7.0	0.1
130°-140°	4.3	0.0
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8712.1	98.8
0°-180°	8822.0	100.0

Coefficient of Utilization



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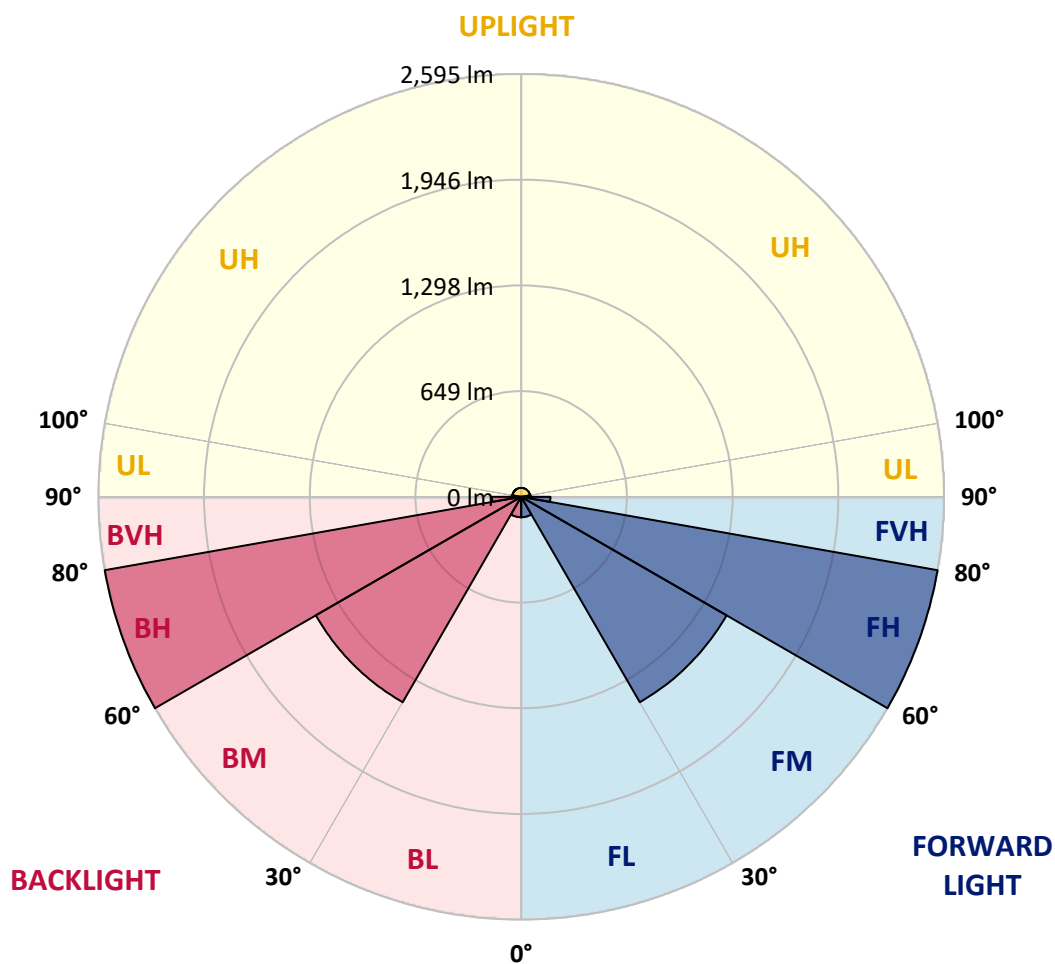
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.4	1.4			
FM	(30°-60°)	1455.9	16.5			
FH	(60°-80°)	2595.3	29.4			G2/5000
FVH	(80°-90°)	179.5	2.0			G2/225
BL	(0°-30°)	125.4	1.4	B1/500		
BM	(30°-60°)	1455.9	16.5	B2/2500		
BH	(60°-80°)	2595.3	29.4	B4/5000		G2/5000
BVH	(80°-90°)	179.5	2.0			G2/225
UL	(90°-100°)	58.7	0.7		U3/500	
UH	(100°-180°)	54.9	0.6		U3/500	

BUG Rating: B4-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	39.8	39.8	39.8	37.7	37.7	41.8	28.5	22.5	21.5	18.4	18.4
5°	44.9	45.9	42.9	40.8	39.8	41.8	42.9	39.8	24.4	19.4	17.4
7.5°	75.5	81.6	74.5	66.4	63.3	43.9	38.8	42.9	32.6	20.5	19.4
10°	132.7	131.7	134.7	125.5	90.8	70.5	58.2	39.8	48.0	36.7	34.7
12.5°	134.7	132.7	133.7	133.7	129.6	116.4	84.7	92.9	100.0	107.2	103.1
15°	234.8	230.7	210.3	181.7	129.6	158.3	160.3	165.4	149.0	142.9	139.8
17.5°	265.4	262.4	258.3	248.1	225.6	198.0	195.0	195.0	219.4	248.1	231.7
20°	294.0	287.9	260.3	256.2	276.6	249.1	239.9	290.9	314.4	338.9	329.7
22.5°	412.4	424.6	415.4	320.5	299.1	299.1	333.8	347.1	349.1	360.3	352.2
25°	422.6	428.7	418.5	398.1	377.7	349.1	372.6	387.9	450.2	472.6	467.5
27.5°	538.0	542.1	487.9	427.7	431.8	417.5	419.5	477.7	534.9	539.0	561.4
30°	579.8	584.9	558.3	535.9	475.7	474.6	498.2	538.0	605.3	654.3	694.2
32.5°	710.4	688.0	615.5	563.4	536.9	528.8	547.2	622.7	696.1	737.0	786.0
35°	784.0	794.1	778.9	646.2	585.9	616.5	620.6	651.2	718.6	790.1	818.7
37.5°	901.3	904.4	803.3	722.7	644.2	696.1	718.6	719.6	806.4	891.1	914.6
40°	976.9	1005.5	940.1	825.8	717.6	750.2	754.3	841.1	921.8	976.9	1013.6
42.5°	1089.1	1088.1	1018.8	942.1	802.3	833.0	851.3	884.0	1015.7	1082.0	1118.8
45°	1212.7	1210.7	1148.4	1055.5	933.0	904.4	932.0	1024.9	1165.8	1220.9	1202.5
47.5°	1367.8	1377.0	1314.8	1209.6	1048.3	1099.4	1063.7	1189.2	1240.2	1310.7	1356.6
50°	1528.1	1537.3	1460.8	1376.0	1203.5	1207.6	1224.9	1322.9	1403.6	1514.8	1563.8
52.5°	1741.5	1749.6	1674.1	1545.5	1409.7	1422.9	1415.8	1466.8	1615.9	1731.2	1713.9
55°	1975.2	1972.1	1880.3	1796.6	1678.2	1633.2	1605.6	1739.4	1828.2	1917.0	1935.4
57.5°	2320.3	2284.5	2174.3	2014.0	1883.4	1909.8	1887.4	1926.2	2069.1	2199.8	2234.4
60°	2573.3	2595.8	2516.2	2335.5	2138.5	2129.4	2147.7	2221.2	2323.3	2405.0	2452.9
62.5°	2960.2	2938.8	2841.9	2685.7	2508.1	2518.2	2439.6	2496.8	2557.1	2672.4	2668.3
65°	3133.8	3128.7	3065.4	2982.7	2823.4	2763.2	2686.7	2715.2	2774.4	2836.7	2929.6
67.5°	3244.0	3307.3	3270.6	3246.0	3019.4	2972.5	2806.1	2851.1	2925.5	3006.1	3071.5
69°	3233.9	3300.1	3317.5	3388.9	3089.9	2995.9	2872.4	2885.7	3005.1	3101.1	3152.1
70°	3174.6	3259.3	3260.3	3377.8	3086.9	3072.5	2901.0	2880.6	3025.6	3117.4	3179.7
72.5°	2804.0	2859.1	2899.0	2914.3	2915.3	3074.6	2878.6	2718.3	2844.9	3029.7	3027.6
75°	2168.1	2229.3	2311.1	2283.4	2510.1	2790.8	2603.0	2326.3	2341.6	2443.7	2468.2
77.5°	1364.8	1370.9	1477.0	1561.7	1934.4	2224.3	2034.4	1656.7	1483.2	1486.2	1544.5
80°	779.9	781.9	841.1	928.9	1190.2	1526.0	1253.5	933.0	729.9	719.6	713.5
82.5°	372.6	364.4	386.9	458.3	617.6	770.7	626.8	356.3	284.8	313.3	317.4
85°	133.7	158.3	179.6	205.2	283.8	297.1	220.4	182.7	187.8	176.6	181.7
87.5°	83.7	85.7	102.1	110.3	118.5	123.5	137.8	123.5	125.5	104.1	98.0
90°	59.2	60.3	73.4	75.5	81.6	82.7	79.6	79.6	76.5	60.3	62.3
92.5°	45.9	44.9	57.2	64.3	70.5	66.4	69.5	60.3	58.2	43.9	42.9
95°	57.2	57.2	62.3	65.4	58.2	49.0	56.2	54.1	52.1	38.8	37.7
97.5°	32.6	34.7	47.0	50.0	49.0	39.8	48.0	49.0	47.0	33.7	28.5
100°	28.5	31.6	41.8	44.9	42.9	33.7	42.9	44.9	41.8	29.6	26.5
102.5°	25.5	27.5	34.7	38.8	34.7	25.5	34.7	37.7	34.7	24.4	22.5
105°	21.5	22.5	24.4	28.5	24.4	19.4	25.5	27.5	22.5	19.4	18.4
107.5°	18.4	18.4	17.4	19.4	17.4	15.3	18.4	19.4	16.4	16.4	16.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	17.4	16.4	13.3	13.3	13.3	12.3	13.3	14.3	13.3	15.3	15.3
112.5°	15.3	14.3	11.3	10.2	10.2	10.2	11.3	11.3	11.3	14.3	14.3
115°	14.3	13.3	10.2	8.2	9.2	9.2	9.2	9.2	10.2	13.3	14.3
117.5°	14.3	13.3	9.2	8.2	7.2	7.2	8.2	8.2	10.2	13.3	13.3
120°	13.3	12.3	9.2	7.2	6.1	6.1	7.2	8.2	10.2	13.3	13.3
122.5°	12.3	12.3	8.2	6.1	6.1	6.1	6.1	7.2	9.2	12.3	12.3
125°	11.3	11.3	8.2	6.1	5.1	5.1	6.1	7.2	9.2	12.3	12.3
127.5°	11.3	10.2	8.2	5.1	5.1	5.1	5.1	6.1	8.2	11.3	12.3
130°	10.2	10.2	7.2	5.1	4.1	4.1	5.1	6.1	8.2	10.2	11.3
132.5°	10.2	9.2	7.2	4.1	4.1	4.1	4.1	5.1	7.2	9.2	10.2
135°	8.2	8.2	6.1	4.1	3.1	3.1	4.1	5.1	6.1	8.2	9.2
137.5°	8.2	7.2	6.1	4.1	3.1	3.1	3.1	4.1	6.1	7.2	8.2
140°	7.2	7.2	5.1	4.1	3.1	3.1	3.1	4.1	5.1	6.1	7.2
142.5°	6.1	6.1	5.1	4.1	3.1	2.0	3.1	3.1	4.1	5.1	5.1
145°	6.1	6.1	5.1	3.1	2.0	2.0	2.0	3.1	4.1	4.1	5.1
147.5°	5.1	5.1	4.1	3.1	2.0	1.0	2.0	3.1	3.1	4.1	4.1
150°	4.1	4.1	3.1	2.0	1.0	0.0	1.0	2.0	3.1	3.1	3.1
152.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
155°	2.0	2.0	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)