

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: P240912

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240912
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-AF24-40-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4470.3 lumens
Efficiency: N/A
Efficacy: 111.8 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 - G1

Input Watts (W): 40
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



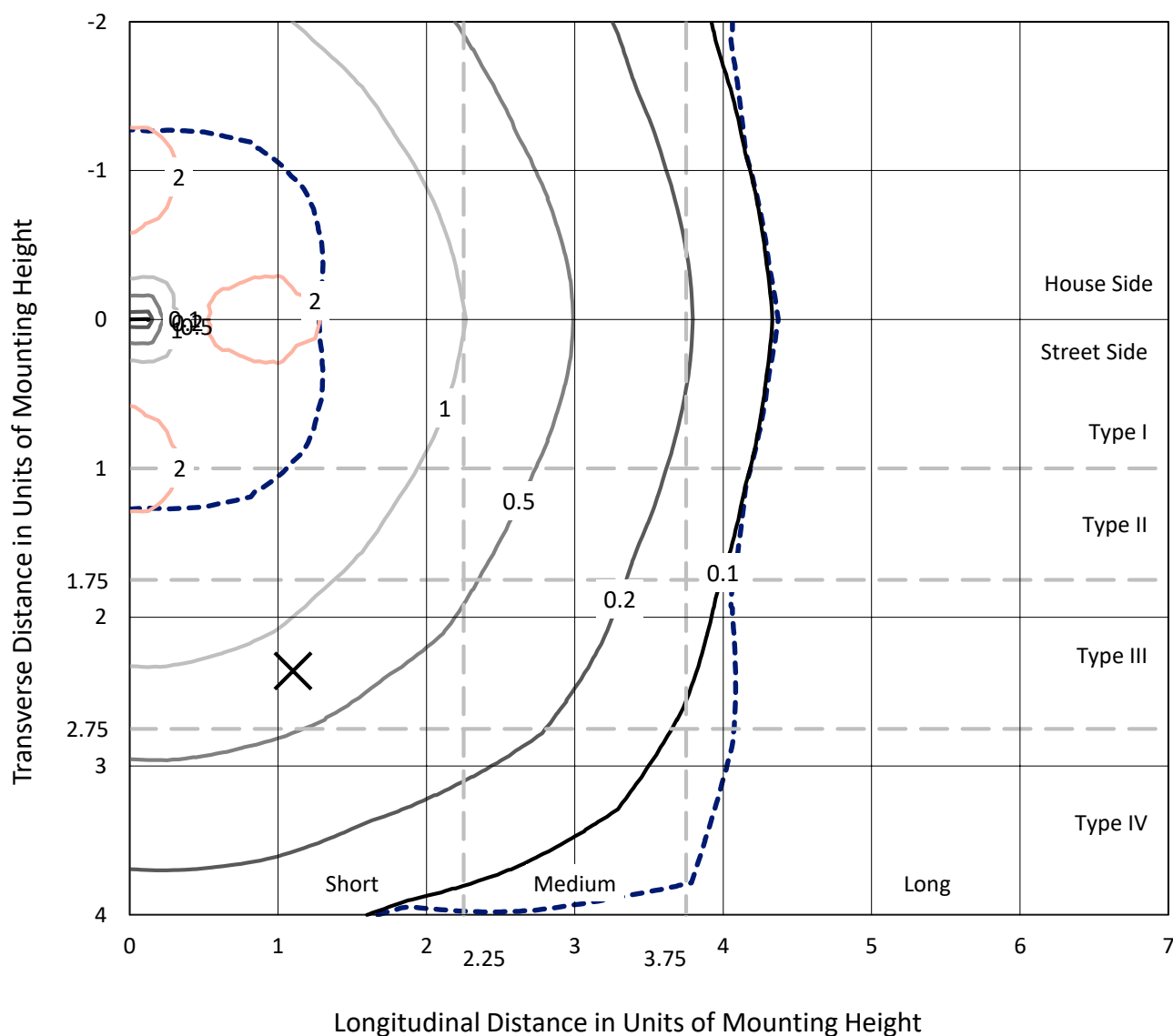
REPORT NUMBER: P240912

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

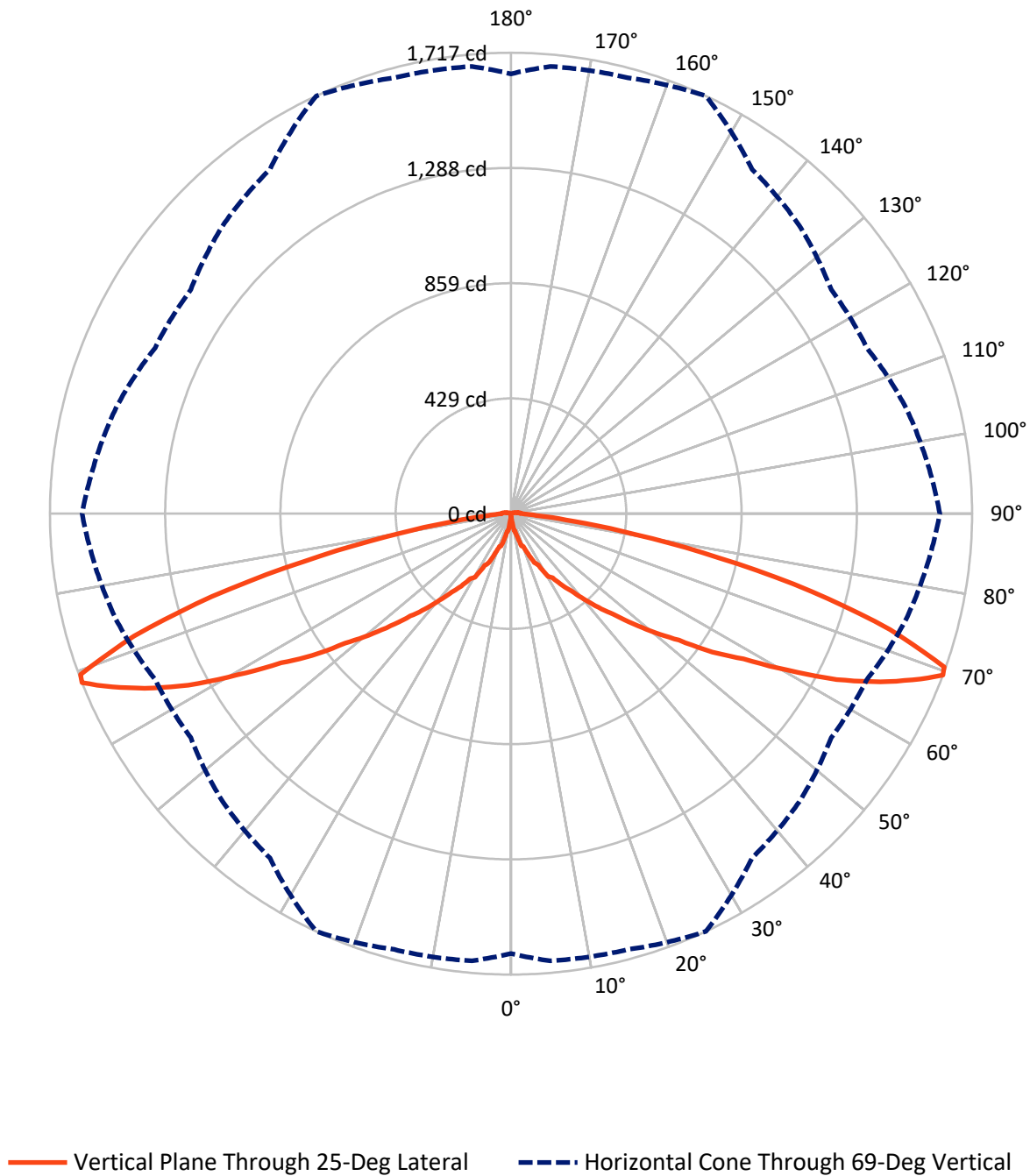


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P240912

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-CL

Luminous Intensity Polar Plot



REPORT NUMBER: P240912

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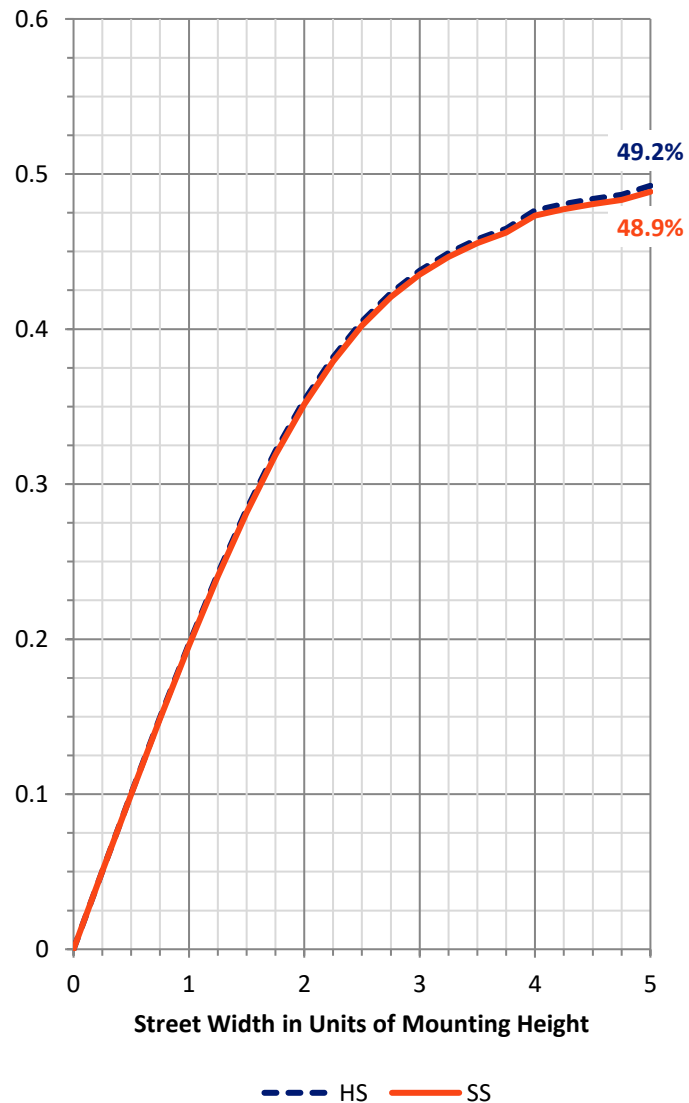
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2207.3	27.8	2235.1
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	2207.3	27.8	2235.1
	% Fixture	49.4	0.6	50.0
Total	Lumens	4414.7	55.6	4470.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	26.4	0.6
20°-30°	98.2	2.2
30°-40°	223.0	5.0
40°-50°	427.6	9.6
50°-60°	824.8	18.5
60°-70°	1419.0	31.7
70°-80°	1211.2	27.1
80°-90°	181.9	4.1
90°-100°	29.7	0.7
100°-110°	13.5	0.3
110°-120°	5.4	0.1
120°-130°	3.5	0.1
130°-140°	2.1	0.0
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4414.7	98.8
0°-180°	4470.3	100.0

Coefficient of Utilization



REPORT NUMBER: P240912

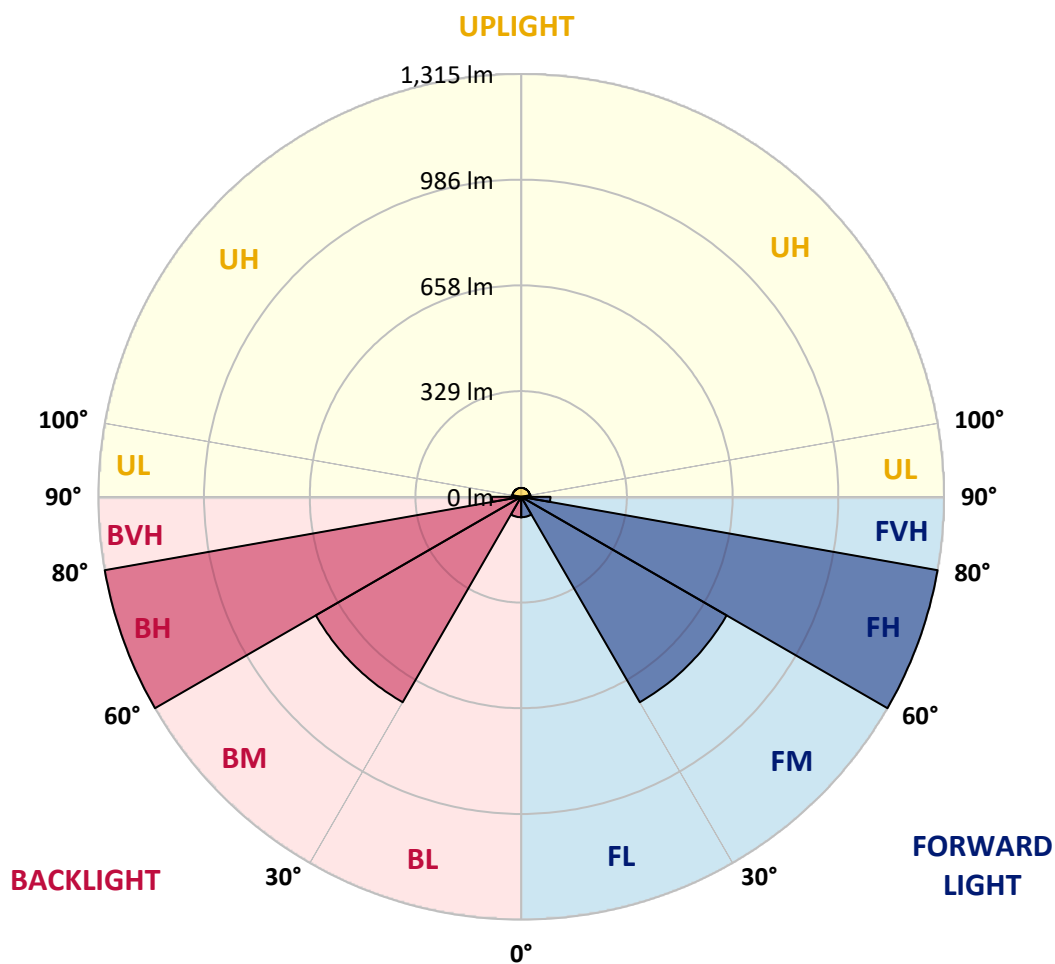
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.5	1.4			
FM	(30°-60°)	737.7	16.5			
FH	(60°-80°)	1315.1	29.4			G1/1800
FVH	(80°-90°)	91.0	2.0			G1/100
BL	(0°-30°)	63.5	1.4	B0/110		
BM	(30°-60°)	737.7	16.5	B1/1000		
BH	(60°-80°)	1315.1	29.4	B3/2500		G1/1800
BVH	(80°-90°)	91.0	2.0			G1/100
UL	(90°-100°)	29.7	0.7		U2/50	
UH	(100°-180°)	27.8	0.6		U2/50	

BUG Rating: B3-U2-G1

Type V Short



REPORT NUMBER: P240912

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	20.2	20.2	20.2	19.1	19.1	21.2	14.5	11.4	10.8	9.3	9.3
5°	22.7	23.3	21.7	20.7	20.2	21.2	21.7	20.2	12.4	9.8	8.8
7.5°	38.3	41.4	37.7	33.7	32.1	22.2	19.6	21.7	16.6	10.3	9.8
10°	67.2	66.7	68.2	63.6	46.0	35.7	29.5	20.2	24.3	18.6	17.6
12.5°	68.2	67.2	67.7	67.7	65.7	58.9	43.0	47.1	50.7	54.3	52.3
15°	119.0	116.9	106.6	92.1	65.7	80.2	81.2	83.8	75.5	72.4	70.9
17.5°	134.5	133.0	130.8	125.7	114.3	100.4	98.8	98.8	111.2	125.7	117.4
20°	148.9	145.9	131.9	129.8	140.1	126.2	121.5	147.4	159.3	171.8	167.0
22.5°	209.0	215.1	210.5	162.4	151.6	151.6	169.1	175.8	176.9	182.6	178.4
25°	214.1	217.3	212.1	201.7	191.4	176.9	188.8	196.5	228.1	239.5	236.9
27.5°	272.6	274.7	247.2	216.8	218.8	211.5	212.6	242.0	271.1	273.1	284.5
30°	293.8	296.3	282.9	271.6	241.0	240.5	252.5	272.6	306.7	331.5	351.7
32.5°	360.0	348.6	311.9	285.5	272.1	267.9	277.2	315.5	352.8	373.5	398.2
35°	397.2	402.4	394.7	327.4	296.9	312.4	314.5	330.0	364.2	400.4	414.8
37.5°	456.7	458.3	407.0	366.2	326.4	352.8	364.2	364.7	408.7	451.5	463.5
40°	495.0	509.5	476.4	418.5	363.7	380.1	382.3	426.3	467.1	495.0	513.6
42.5°	551.9	551.4	516.2	477.4	406.5	422.1	431.4	448.0	514.6	548.3	566.9
45°	614.5	613.5	582.0	534.8	472.8	458.3	472.3	519.4	590.7	618.7	609.4
47.5°	693.2	697.8	666.2	613.0	531.2	557.1	539.0	602.6	628.5	664.1	687.4
50°	774.4	779.0	740.2	697.2	609.9	611.9	620.7	670.3	711.3	767.6	792.4
52.5°	882.4	886.6	848.3	783.1	714.3	721.1	717.4	743.3	818.8	877.3	868.5
55°	1000.9	999.3	952.8	910.3	850.4	827.6	813.7	881.4	926.4	971.4	980.7
57.5°	1175.7	1157.6	1101.7	1020.5	954.3	967.8	956.4	976.1	1048.4	1114.7	1132.3
60°	1304.0	1315.4	1275.0	1183.5	1083.6	1079.0	1088.3	1125.6	1177.3	1218.6	1243.0
62.5°	1500.1	1489.2	1440.0	1360.9	1270.9	1276.0	1236.2	1265.2	1295.7	1354.2	1352.1
65°	1587.9	1585.4	1553.4	1511.4	1430.7	1400.2	1361.4	1375.9	1405.8	1437.5	1484.5
67.5°	1643.8	1675.9	1657.3	1644.9	1530.0	1506.2	1421.9	1444.7	1482.5	1523.3	1556.4
69°	1638.7	1672.3	1681.0	1717.2	1565.7	1518.2	1455.6	1462.3	1522.8	1571.5	1597.2
70°	1608.7	1651.6	1652.1	1711.6	1564.2	1556.9	1470.0	1459.6	1533.1	1579.6	1611.2
72.5°	1420.9	1448.8	1469.0	1476.7	1477.2	1558.0	1458.6	1377.4	1441.5	1535.2	1534.1
75°	1098.6	1129.6	1171.1	1157.1	1271.9	1414.1	1319.0	1178.8	1186.6	1238.3	1250.8
77.5°	691.5	694.7	748.5	791.4	980.2	1127.1	1030.9	839.5	751.6	753.1	782.6
80°	395.2	396.2	426.3	470.7	603.1	773.2	635.2	472.8	369.8	364.7	361.5
82.5°	188.8	184.6	196.0	232.2	312.9	390.6	317.6	180.6	144.3	158.8	160.9
85°	67.7	80.2	91.0	103.9	143.8	150.5	111.7	92.6	95.1	89.5	92.1
87.5°	42.5	43.5	51.8	55.9	60.0	62.6	69.9	62.6	63.6	52.8	49.6
90°	30.0	30.5	37.2	38.3	41.4	41.9	40.3	40.3	38.8	30.5	31.5
92.5°	23.3	22.7	28.9	32.6	35.7	33.7	35.2	30.5	29.5	22.2	21.7
95°	28.9	28.9	31.5	33.1	29.5	24.9	28.4	27.4	26.4	19.6	19.1
97.5°	16.6	17.6	23.8	25.4	24.9	20.2	24.3	24.9	23.8	17.1	14.5
100°	14.5	16.1	21.2	22.7	21.7	17.1	21.7	22.7	21.2	15.0	13.4
102.5°	12.9	14.0	17.6	19.6	17.6	12.9	17.6	19.1	17.6	12.4	11.4
105°	10.8	11.4	12.4	14.5	12.4	9.8	12.9	14.0	11.4	9.8	9.3
107.5°	9.3	9.3	8.8	9.8	8.8	7.8	9.3	9.8	8.3	8.3	8.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	8.8	8.3	6.8	6.8	6.8	6.2	6.8	7.3	6.8	7.8	7.8
112.5°	7.8	7.3	5.7	5.2	5.2	5.2	5.7	5.7	5.7	7.3	7.3
115°	7.3	6.8	5.2	4.1	4.7	4.7	4.7	4.7	5.2	6.8	7.3
117.5°	7.3	6.8	4.7	4.1	3.6	3.6	4.1	4.1	5.2	6.8	6.8
120°	6.8	6.2	4.7	3.6	3.1	3.1	3.6	4.1	5.2	6.8	6.8
122.5°	6.2	6.2	4.1	3.1	3.1	3.1	3.1	3.6	4.7	6.2	6.2
125°	5.7	5.7	4.1	3.1	2.6	2.6	3.1	3.6	4.7	6.2	6.2
127.5°	5.7	5.2	4.1	2.6	2.6	2.6	2.6	3.1	4.1	5.7	6.2
130°	5.2	5.2	3.6	2.6	2.0	2.0	2.6	3.1	4.1	5.2	5.7
132.5°	5.2	4.7	3.6	2.0	2.0	2.0	2.0	2.6	3.6	4.7	5.2
135°	4.1	4.1	3.1	2.0	1.5	1.5	2.0	2.6	3.1	4.1	4.7
137.5°	4.1	3.6	3.1	2.0	1.5	1.5	1.5	2.0	3.1	3.6	4.1
140°	3.6	3.6	2.6	2.0	1.5	1.5	1.5	2.0	2.6	3.1	3.6
142.5°	3.1	3.1	2.6	2.0	1.5	1.0	1.5	1.5	2.0	2.6	2.6
145°	3.1	3.1	2.6	1.5	1.0	1.0	1.0	1.5	2.0	2.0	2.6
147.5°	2.6	2.6	2.0	1.5	1.0	0.5	1.0	1.5	1.5	2.0	2.0
150°	2.0	2.0	1.5	1.0	0.5	0.0	0.5	1.0	1.5	1.5	1.5
152.5°	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.5	1.0	1.0	1.5
155°	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	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)