

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: P239825

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5010 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 64
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



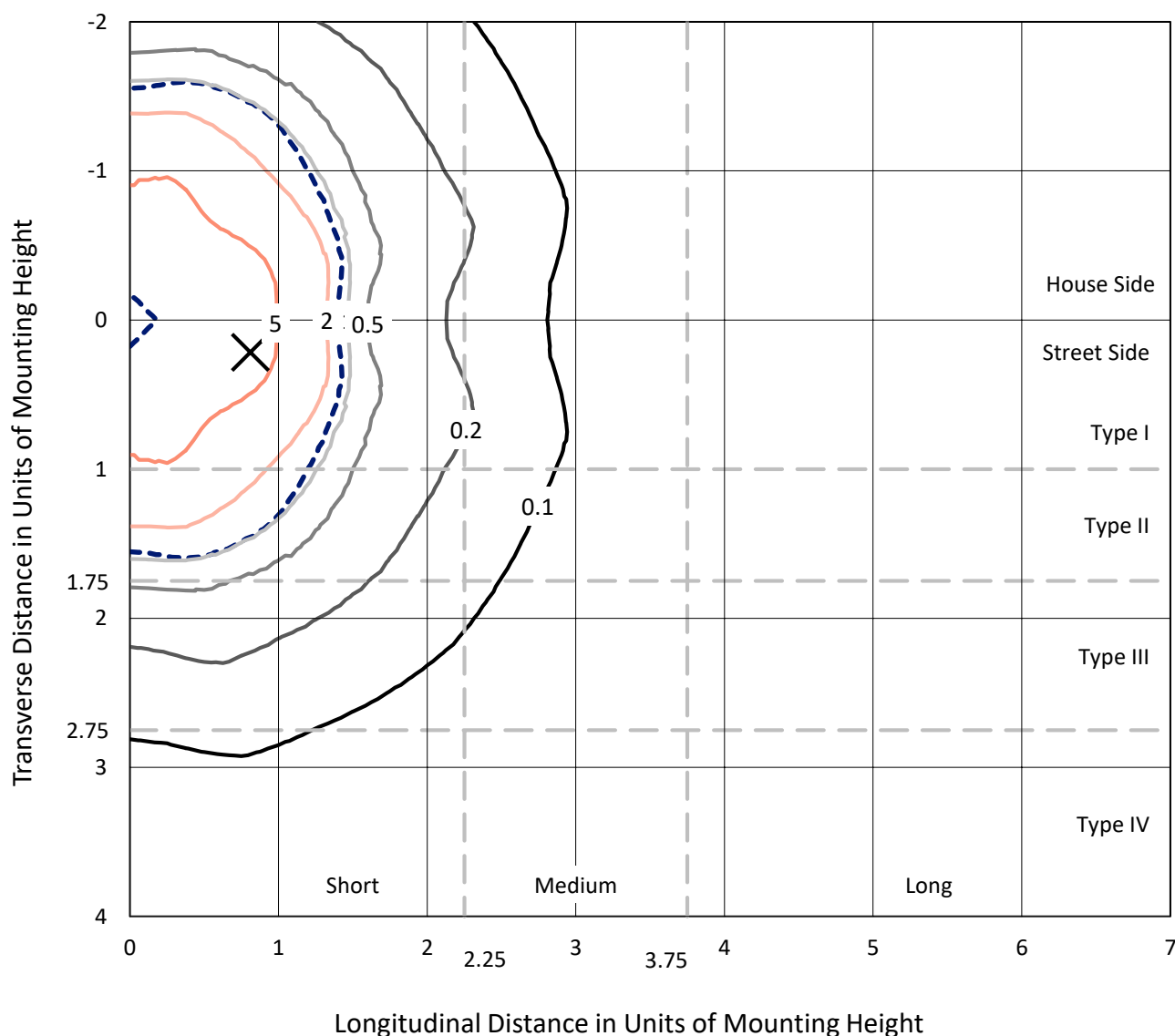
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

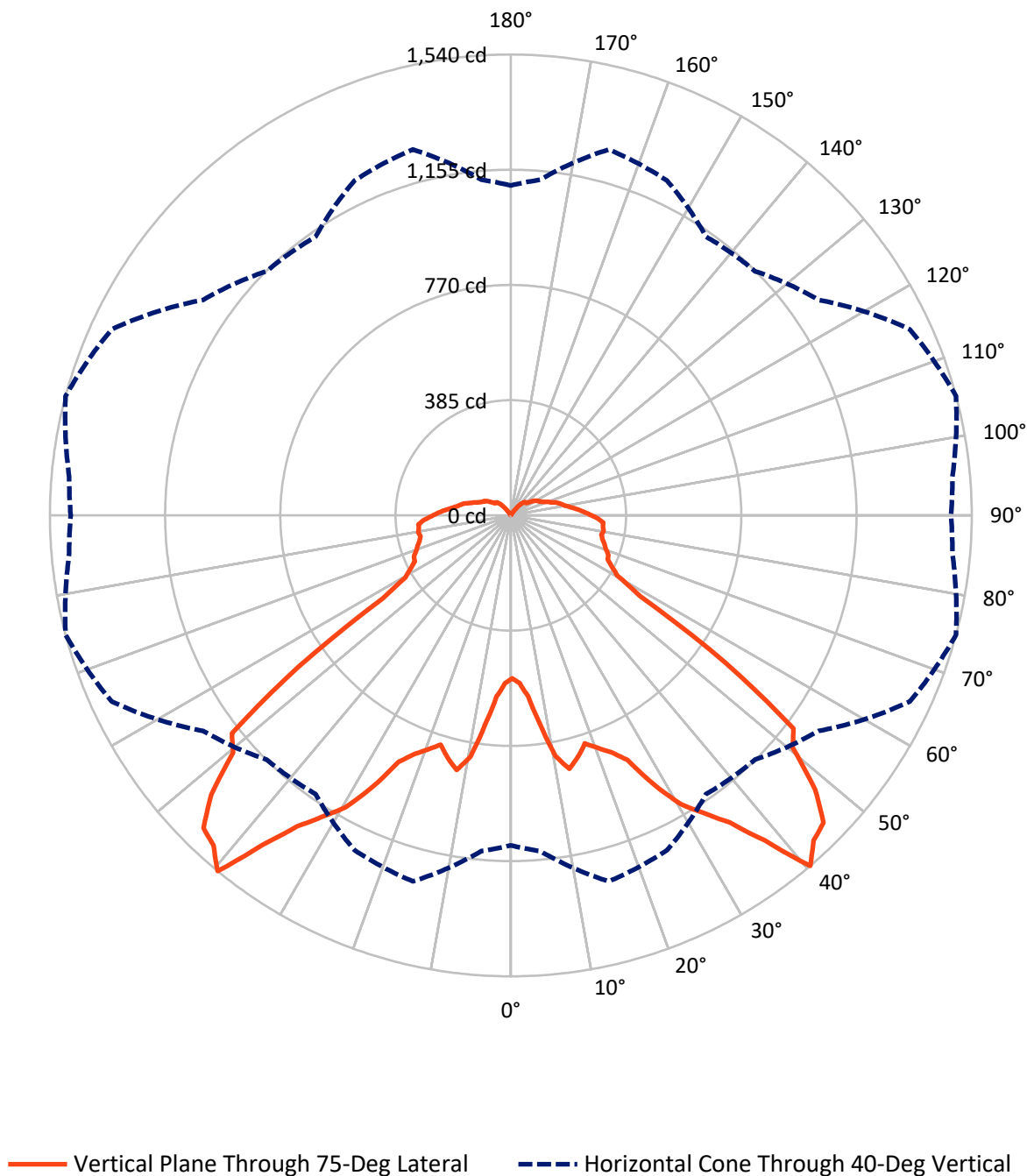


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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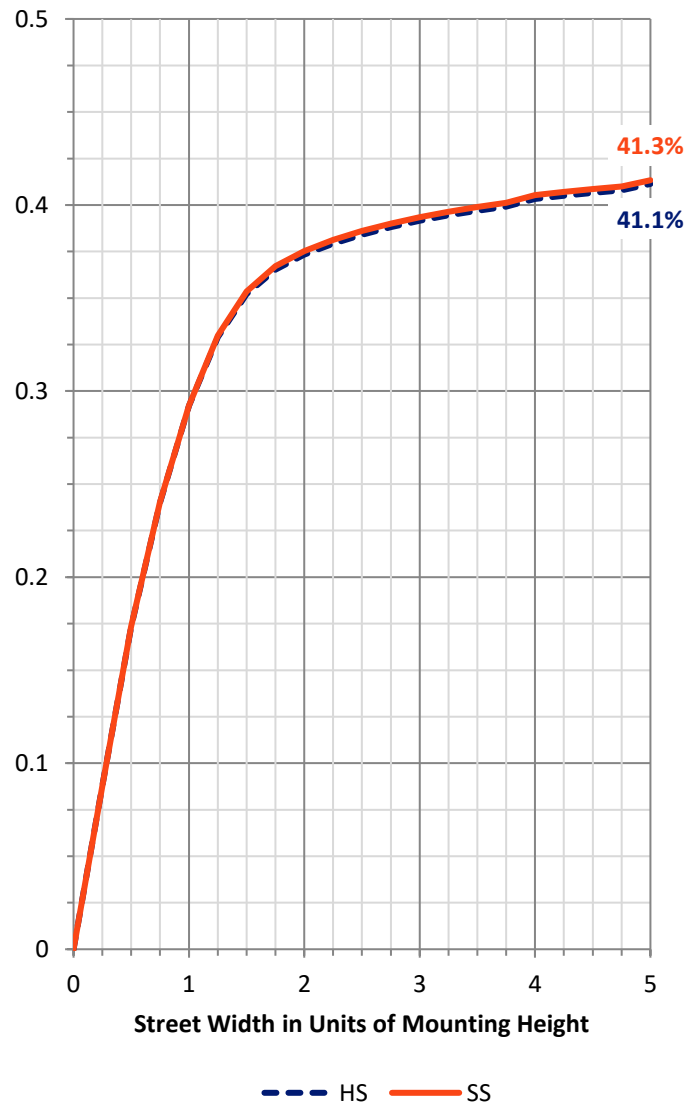
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.6	339.4	2505.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2165.6	339.4	2505.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	4331.2	678.8	5010.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.3
10°-20°	261.0	5.2
20°-30°	466.1	9.3
30°-40°	737.9	14.7
40°-50°	990.2	19.8
50°-60°	788.1	15.7
60°-70°	361.7	7.2
70°-80°	329.7	6.6
80°-90°	332.2	6.6
90°-100°	255.4	5.1
100°-110°	178.4	3.6
110°-120°	117.8	2.4
120°-130°	73.7	1.5
130°-140°	43.1	0.9
140°-150°	9.8	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4331.2	86.5
0°-180°	5010.0	100.0

Coefficient of Utilization



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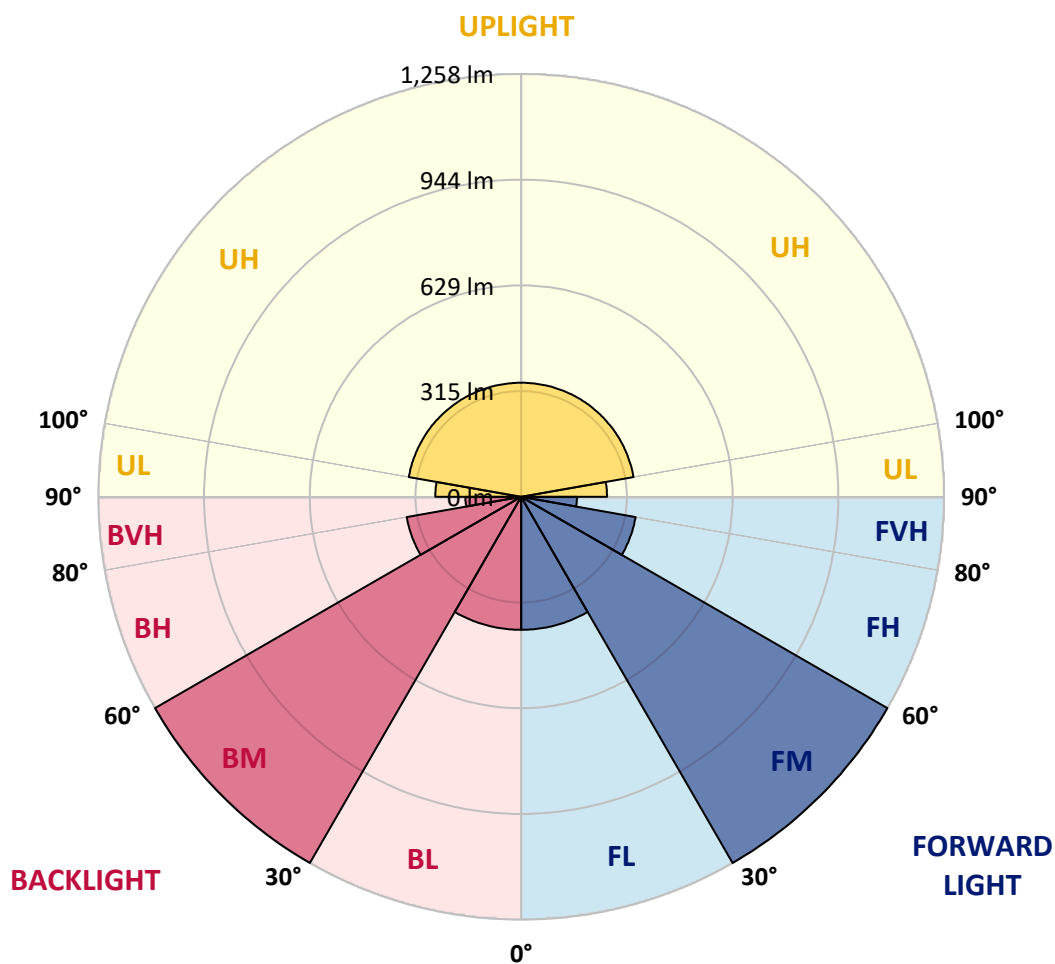
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.7	7.9			
FM	(30°-60°)	1258.1	25.1			
FH	(60°-80°)	345.7	6.9			G0/660
FVH	(80°-90°)	166.1	3.3			G2/225
BL	(0°-30°)	395.7	7.9	B1/500		
BM	(30°-60°)	1258.1	25.1	B2/2500		
BH	(60°-80°)	345.7	6.9	B1/500		G0/660
BVH	(80°-90°)	166.1	3.3			G2/225
UL	(90°-100°)	255.4	5.1		U3/500	
UH	(100°-180°)	339.4	6.8		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4
2.5°	559.1	559.1	559.1	557.7	559.1	560.4	561.7	561.7	561.1	559.1	557.7
5°	598.4	598.4	597.8	599.1	599.1	596.4	597.8	602.4	607.1	603.8	602.4
7.5°	693.8	691.8	687.2	683.2	678.5	678.5	688.5	694.5	705.2	706.5	703.2
10°	789.9	792.6	795.2	795.2	806.6	819.2	827.9	825.3	817.2	811.2	807.2
12.5°	817.9	819.9	843.3	902.0	945.3	980.7	950.7	905.3	869.3	845.9	843.3
15°	839.3	844.6	874.0	947.3	1056.1	1085.4	1023.4	908.0	837.9	804.6	797.2
17.5°	860.6	866.6	916.0	1022.1	1108.1	1100.8	1026.1	902.6	800.6	756.5	751.2
20°	841.9	848.6	918.0	1060.1	1122.8	1087.4	1061.4	945.3	829.3	778.6	772.5
22.5°	849.3	855.9	926.0	1064.1	1102.8	1104.8	1064.8	995.4	859.3	801.2	791.9
25°	862.6	867.9	954.7	1094.1	1094.8	1089.4	1069.4	1031.4	904.6	849.3	841.3
27.5°	862.6	867.3	964.7	1081.4	1088.8	1076.8	1102.1	1116.1	1018.7	969.4	971.4
30°	901.3	904.0	1004.7	1080.1	1063.4	1072.8	1144.1	1186.8	1120.1	1040.7	1040.1
32.5°	976.7	989.4	1095.4	1126.1	1060.8	1069.4	1154.8	1229.5	1186.2	1090.8	1080.1
35°	1073.4	1076.8	1174.2	1166.2	1080.1	1075.4	1180.2	1296.9	1260.2	1166.2	1162.8
37.5°	1104.8	1109.5	1225.5	1204.2	1103.4	1107.5	1222.2	1379.0	1377.6	1302.3	1278.2
40°	1102.1	1125.5	1265.6	1234.2	1136.8	1153.5	1254.9	1471.0	1539.8	1481.0	1470.4
42.5°	1300.9	1312.9	1395.0	1281.6	1167.5	1167.5	1268.2	1453.0	1483.7	1371.6	1349.6
45°	1321.6	1320.9	1411.0	1320.3	1175.5	1148.1	1220.9	1384.3	1464.4	1390.3	1357.6
47.5°	1278.9	1295.6	1407.7	1298.3	1160.8	1093.4	1139.5	1305.6	1367.6	1253.6	1227.5
50°	1232.9	1245.5	1330.9	1197.5	1088.1	1040.1	1074.8	1194.8	1219.5	1082.1	1062.1
52.5°	1106.8	1108.1	1209.5	1104.1	1024.7	975.4	1003.4	1114.8	1182.2	1050.7	1036.7
55°	938.0	956.0	1084.8	1019.4	950.0	907.3	912.6	931.3	872.0	675.1	629.1
57.5°	717.2	740.5	890.6	894.0	840.6	772.5	697.8	591.1	509.0	326.9	314.2
60°	488.3	508.4	621.8	649.8	671.1	593.1	483.0	421.6	409.0	283.5	274.2
62.5°	302.2	318.9	425.0	435.0	481.7	433.0	382.9	364.3	378.9	270.9	264.2
65°	279.5	290.9	368.9	354.3	365.6	362.9	340.9	337.6	355.6	264.2	259.5
67.5°	270.2	279.5	341.6	330.9	335.6	339.6	324.2	326.9	351.6	269.5	264.2
70°	265.5	275.5	332.9	325.6	330.2	334.2	324.9	320.9	336.9	271.5	264.2
72.5°	262.2	272.9	319.6	314.9	327.6	338.2	328.9	320.2	326.9	272.9	265.5
75°	256.2	266.9	307.6	310.2	329.6	342.2	330.2	316.9	316.2	270.2	261.5
77.5°	254.8	266.9	294.9	311.6	330.2	346.9	337.6	318.2	309.6	271.5	260.9
80°	252.8	266.2	300.9	322.2	335.6	344.2	340.2	326.9	314.2	281.5	270.2
82.5°	264.2	276.2	306.2	330.2	334.2	332.9	332.9	324.2	310.2	282.2	271.5
85°	278.2	287.5	318.9	332.9	329.6	320.9	316.9	316.2	309.6	289.5	280.9
87.5°	275.5	282.2	303.5	316.9	318.2	300.9	301.5	297.5	290.2	270.2	262.9
90°	257.5	262.2	286.2	300.2	291.5	277.5	271.5	263.5	264.2	246.2	240.8
92.5°	245.5	250.8	268.2	276.2	274.9	251.5	247.5	246.8	242.8	227.5	224.2
95°	229.5	232.8	247.5	258.2	251.5	227.5	223.5	220.2	220.8	214.8	215.5
97.5°	225.5	228.2	238.8	236.8	225.5	204.8	202.1	200.8	200.1	196.8	196.1
100°	216.8	216.8	220.2	214.2	200.8	185.5	181.5	182.1	182.8	178.8	177.5
102.5°	202.1	202.8	204.1	198.8	186.1	170.1	166.1	169.5	170.8	169.5	168.8
105°	191.5	190.8	191.5	185.5	171.5	157.4	152.8	156.1	159.4	160.1	158.8
107.5°	175.5	174.8	174.8	168.8	158.1	146.8	142.8	140.8	140.8	140.8	140.8
110°	152.1	152.8	152.8	150.1	144.8	138.1	132.8	128.8	130.1	129.4	130.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	141.4	141.4	140.1	138.1	132.8	126.1	120.1	117.4	116.1	115.4	116.1
115°	130.1	130.8	126.8	125.4	120.1	116.1	110.1	108.1	108.1	110.1	111.4
117.5°	120.1	120.1	117.4	114.1	109.4	106.1	103.4	102.1	102.1	104.7	104.7
120°	108.7	108.7	106.1	102.1	100.1	95.4	96.1	95.4	97.4	100.7	101.4
122.5°	96.1	96.1	93.4	90.1	91.4	88.1	86.7	84.1	88.1	92.1	92.7
125°	85.4	84.7	82.1	78.1	83.4	83.4	80.1	71.4	76.7	80.1	80.7
127.5°	78.1	77.4	74.1	70.0	76.7	80.7	73.4	64.7	67.4	70.7	72.1
130°	74.1	73.4	70.0	65.4	67.4	76.7	66.0	62.0	65.4	68.7	68.7
132.5°	71.4	70.7	68.0	63.4	60.0	70.0	59.4	60.7	65.4	68.7	68.7
135°	66.0	66.0	62.7	56.0	48.0	51.4	48.0	54.7	60.0	62.7	63.4
137.5°	56.7	56.7	54.0	48.0	38.7	36.7	38.0	46.7	52.7	55.4	55.4
140°	44.7	44.0	41.4	36.0	25.4	17.3	24.7	35.4	41.4	44.0	44.0
142.5°	31.4	30.7	27.4	22.0	13.3	6.0	13.3	21.3	27.4	30.0	30.7
145°	20.0	20.0	17.3	13.3	6.7	2.0	5.3	12.7	16.7	19.3	19.3
147.5°	12.7	12.7	10.7	7.3	2.0	1.3	2.0	6.0	10.0	12.0	12.7
150°	7.3	7.3	5.3	2.7	1.3	0.7	1.3	2.0	4.0	6.0	6.0
152.5°	2.7	2.0	1.3	1.3	0.7	0.7	0.7	1.3	1.3	2.0	2.0
155°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	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)