

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: P266392

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4917.2 lumens
Efficiency: N/A
Efficacy: 76.8 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

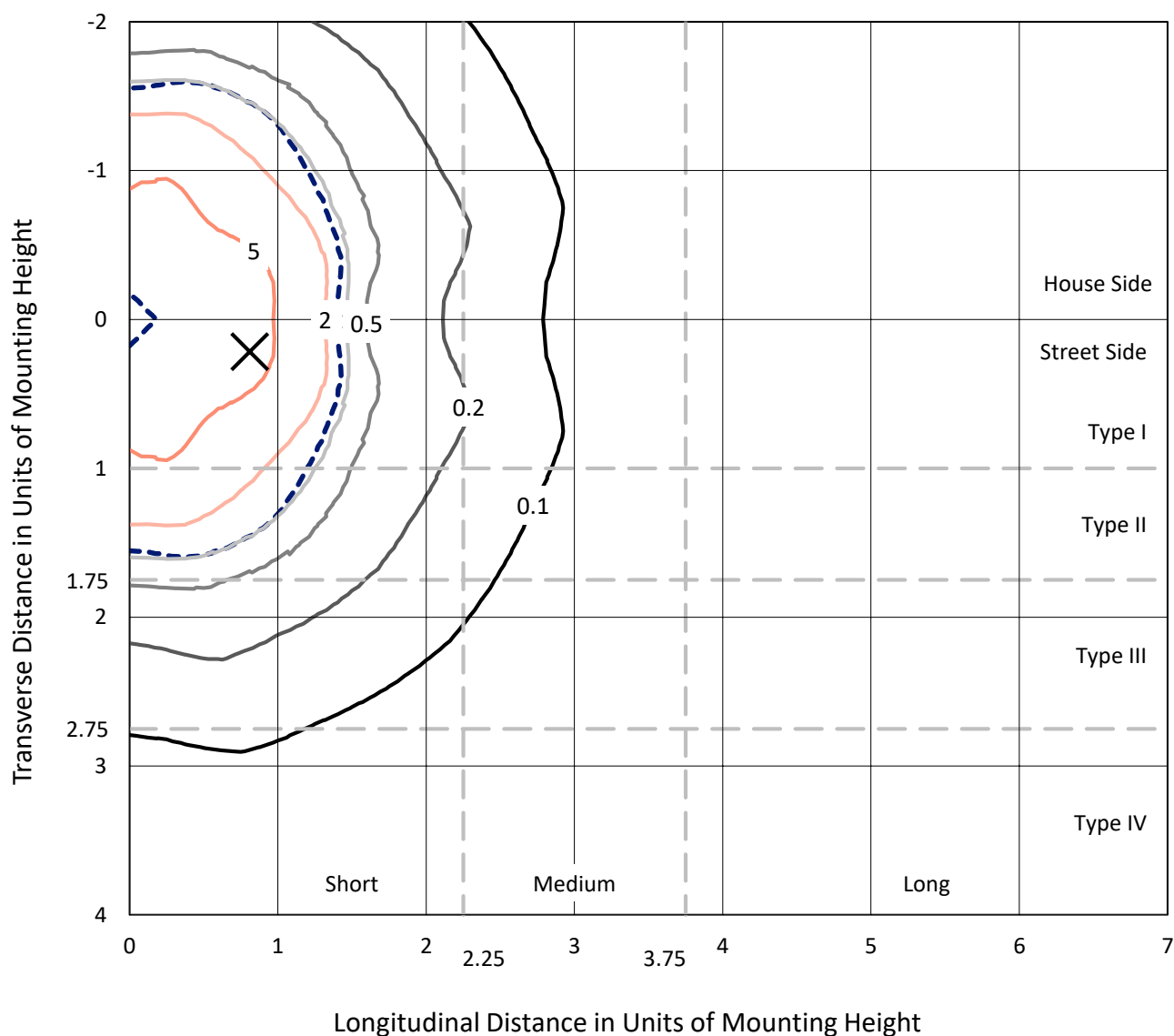


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

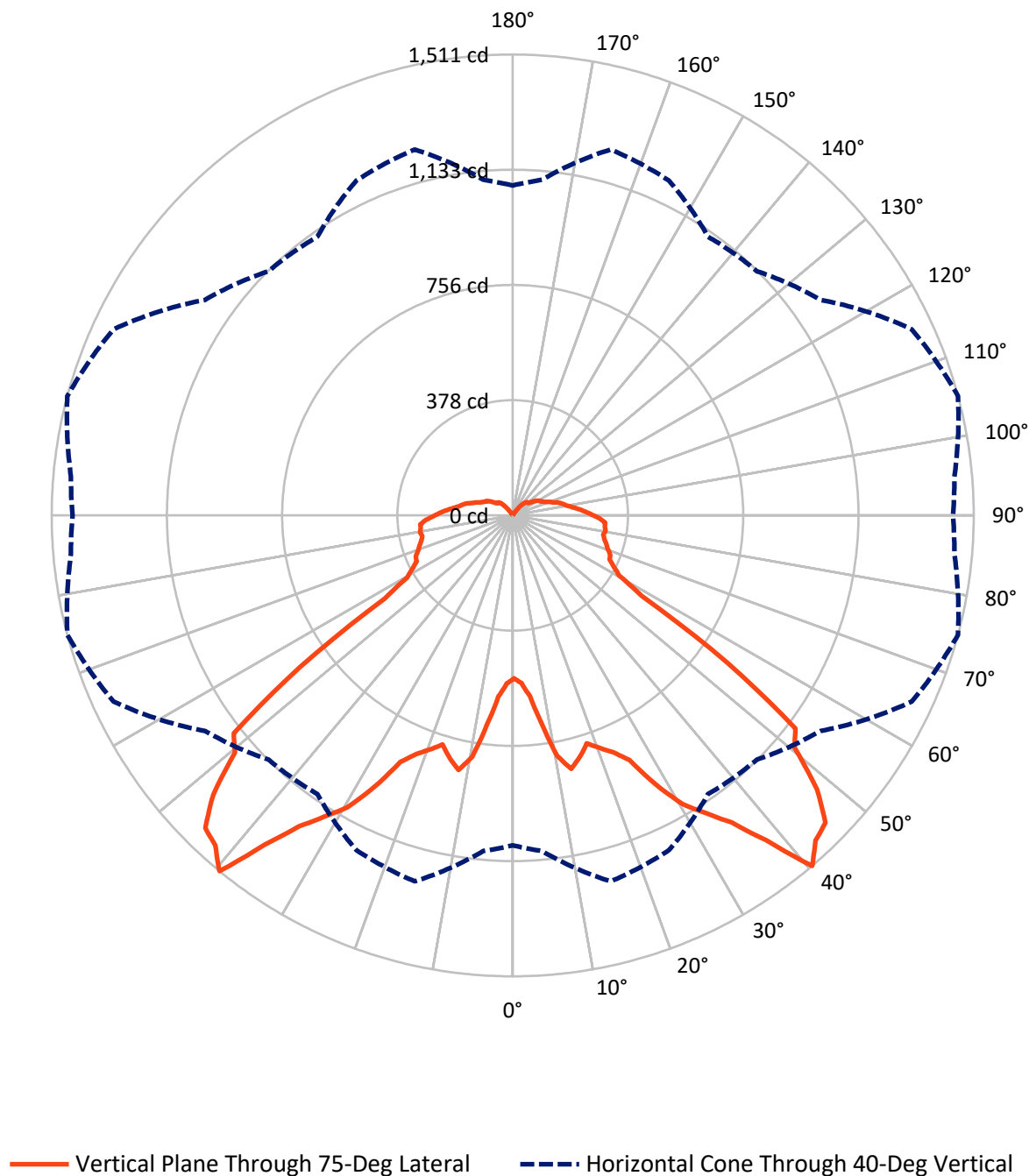


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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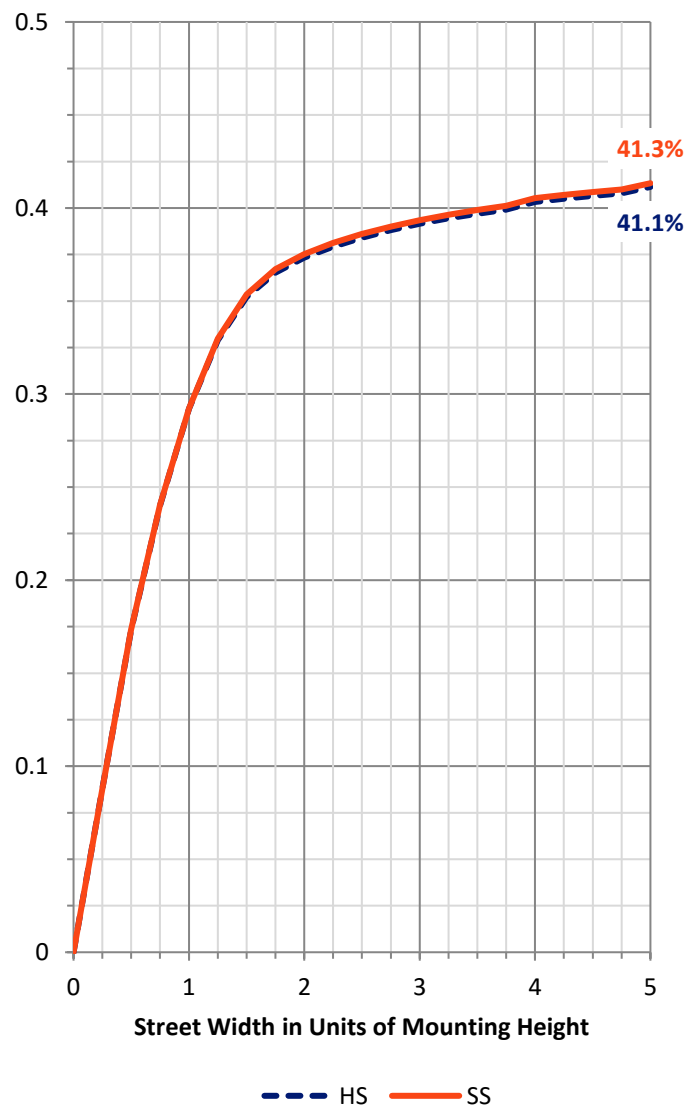
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2125.5	333.1	2458.6
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2125.5	333.1	2458.6
	% Fixture	43.2	6.8	50.0
Total	Lumens	4251.0	666.2	4917.2
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.3
10°-20°	256.1	5.2
20°-30°	457.5	9.3
30°-40°	724.3	14.7
40°-50°	971.8	19.8
50°-60°	773.5	15.7
60°-70°	355.0	7.2
70°-80°	323.6	6.6
80°-90°	326.0	6.6
90°-100°	250.7	5.1
100°-110°	175.0	3.6
110°-120°	115.6	2.4
120°-130°	72.3	1.5
130°-140°	42.3	0.9
140°-150°	9.6	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4251.0	86.5
0°-180°	4917.2	100.0

Coefficient of Utilization



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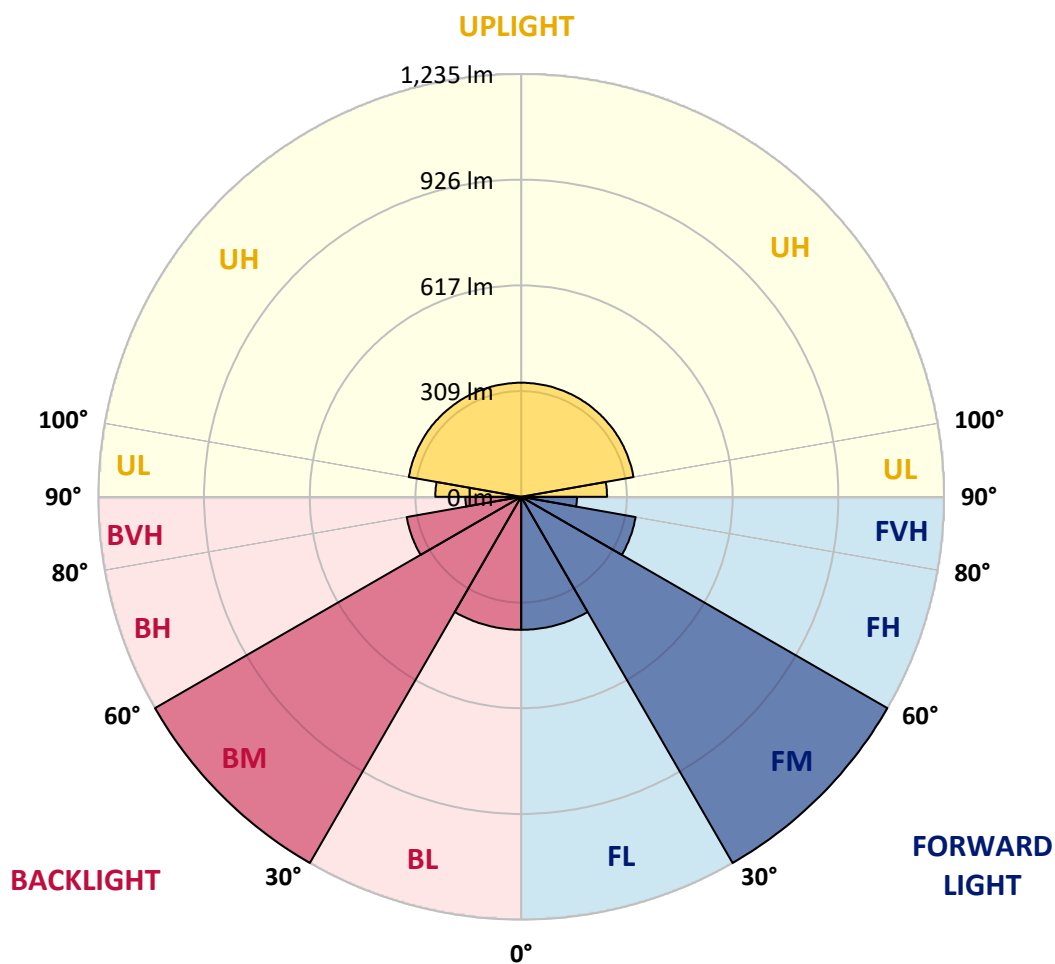
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.3	7.9			
FM	(30°-60°)	1234.8	25.1			
FH	(60°-80°)	339.3	6.9			G0/660
FVH	(80°-90°)	163.0	3.3			G2/225
BL	(0°-30°)	388.3	7.9	B1/500		
BM	(30°-60°)	1234.8	25.1	B2/2500		
BH	(60°-80°)	339.3	6.9	B1/500		G0/660
BVH	(80°-90°)	163.0	3.3			G2/225
UL	(90°-100°)	250.7	5.1		U3/500	
UH	(100°-180°)	333.1	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°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	548.8	548.8	548.8	547.3	548.8	550.0	551.3	551.3	550.8	548.8	547.3
5°	587.3	587.3	586.8	588.0	588.0	585.3	586.8	591.3	595.8	592.6	591.3
7.5°	680.9	678.9	674.4	670.6	666.0	666.0	675.7	681.6	692.1	693.4	690.2
10°	775.2	777.9	780.4	780.4	791.6	804.1	812.5	810.0	802.0	796.2	792.2
12.5°	802.7	804.7	827.7	885.3	927.8	962.5	933.1	888.6	853.2	830.3	827.7
15°	823.7	829.0	857.8	929.7	1036.6	1065.3	1004.5	891.2	822.4	789.7	782.5
17.5°	844.6	850.5	899.1	1003.1	1087.6	1080.4	1007.1	885.9	785.7	742.4	737.2
20°	826.4	832.9	901.0	1040.4	1102.0	1067.2	1041.8	927.8	814.0	764.2	758.2
22.5°	833.5	840.0	908.8	1044.4	1082.4	1084.3	1045.1	976.9	843.4	786.3	777.3
25°	846.7	851.9	937.0	1073.8	1074.6	1069.3	1049.6	1012.3	887.9	833.5	825.7
27.5°	846.7	851.2	946.9	1061.3	1068.7	1056.9	1081.6	1095.5	999.9	951.5	953.5
30°	884.7	887.3	986.1	1060.1	1043.7	1053.0	1122.9	1164.8	1099.3	1021.5	1020.8
32.5°	958.6	971.1	1075.1	1105.3	1041.1	1049.6	1133.4	1206.8	1164.3	1070.6	1060.1
35°	1053.5	1056.9	1152.4	1144.6	1060.1	1055.5	1158.4	1272.9	1236.8	1144.6	1141.2
37.5°	1084.3	1088.9	1202.8	1181.9	1082.9	1086.9	1199.5	1353.4	1352.0	1278.2	1254.6
40°	1081.6	1104.6	1242.1	1211.4	1115.8	1132.1	1231.7	1443.8	1511.3	1453.5	1443.1
42.5°	1276.9	1288.6	1369.1	1257.8	1145.9	1145.9	1244.7	1426.1	1456.2	1346.2	1324.6
45°	1297.2	1296.4	1384.8	1295.8	1153.8	1126.8	1198.2	1358.6	1437.3	1364.5	1332.5
47.5°	1255.2	1271.6	1381.7	1274.2	1139.3	1073.1	1118.4	1281.4	1342.2	1230.4	1204.7
50°	1210.0	1222.5	1306.2	1175.3	1067.9	1020.8	1054.9	1172.6	1196.9	1062.1	1042.5
52.5°	1086.3	1087.6	1187.1	1083.6	1005.7	957.4	984.8	1094.1	1160.3	1031.3	1017.5
55°	920.7	938.3	1064.8	1000.5	932.4	890.5	895.7	914.0	855.8	662.6	617.5
57.5°	703.9	726.8	874.1	877.5	825.1	758.2	684.9	580.1	499.5	320.9	308.4
60°	479.2	499.0	610.3	637.7	658.6	582.1	474.0	413.8	401.5	278.3	269.1
62.5°	296.6	313.0	417.2	427.0	472.8	425.0	375.9	357.5	371.9	265.9	259.3
65°	274.3	285.5	362.0	347.7	358.9	356.2	334.6	331.4	349.0	259.3	254.7
67.5°	265.2	274.3	335.2	324.7	329.4	333.4	318.2	320.9	345.0	264.6	259.3
70°	260.6	270.4	326.8	319.5	324.1	328.1	318.9	314.9	330.7	266.4	259.3
72.5°	257.4	267.9	313.7	309.0	321.6	332.0	322.9	314.2	320.9	267.9	260.6
75°	251.4	261.9	301.9	304.4	323.5	335.8	324.1	311.1	310.4	265.2	256.6
77.5°	250.1	261.9	289.4	305.9	324.1	340.5	331.4	312.3	303.8	266.4	256.0
80°	248.1	261.2	295.4	316.3	329.4	337.9	333.9	320.9	308.4	276.3	265.2
82.5°	259.3	271.1	300.6	324.1	328.1	326.8	326.8	318.2	304.4	276.9	266.4
85°	273.1	282.2	313.0	326.8	323.5	314.9	311.1	310.4	303.8	284.1	275.7
87.5°	270.4	276.9	297.9	311.1	312.3	295.4	295.9	291.9	284.9	265.2	258.1
90°	252.8	257.4	280.9	294.6	286.1	272.4	266.4	258.6	259.3	241.6	236.3
92.5°	240.9	246.1	263.3	271.1	269.9	246.9	242.9	242.3	238.3	223.3	220.1
95°	225.2	228.4	242.9	253.4	246.9	223.3	219.4	216.1	216.8	210.8	211.6
97.5°	221.3	223.9	234.4	232.4	221.3	201.0	198.3	197.1	196.4	193.1	192.4
100°	212.8	212.8	216.1	210.3	197.1	182.0	178.1	178.8	179.4	175.4	174.2
102.5°	198.3	199.1	200.3	195.1	182.6	166.9	163.0	166.4	167.7	166.4	165.6
105°	187.9	187.2	187.9	182.0	168.3	154.5	149.9	153.3	156.5	157.2	155.9
107.5°	172.2	171.5	171.5	165.6	155.1	144.1	140.1	138.2	138.2	138.2	138.2
110°	149.3	149.9	149.9	147.3	142.1	135.6	130.3	126.4	127.6	127.0	128.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	138.8	138.8	137.5	135.6	130.3	123.7	117.9	115.3	113.9	113.2	113.9
115°	127.6	128.4	124.4	123.1	117.9	113.9	108.1	106.1	106.1	108.1	109.4
117.5°	117.9	117.9	115.3	112.0	107.3	104.2	101.5	100.3	100.3	102.8	102.8
120°	106.7	106.7	104.2	100.3	98.3	93.7	94.3	93.7	95.6	98.9	99.5
122.5°	94.3	94.3	91.6	88.5	89.7	86.4	85.1	82.6	86.4	90.4	91.0
125°	83.8	83.2	80.6	76.6	81.8	81.8	78.6	70.1	75.3	78.6	79.2
127.5°	76.6	75.9	72.8	68.7	75.3	79.2	72.0	63.5	66.1	69.3	70.7
130°	72.8	72.0	68.7	64.1	66.1	75.3	64.8	60.8	64.1	67.5	67.5
132.5°	70.1	69.3	66.7	62.3	58.8	68.7	58.3	59.6	64.1	67.5	67.5
135°	64.8	64.8	61.5	54.9	47.2	50.5	47.2	53.7	58.8	61.5	62.3
137.5°	55.7	55.7	53.0	47.2	38.0	36.0	37.3	45.9	51.7	54.3	54.3
140°	43.8	43.2	40.7	35.4	25.0	17.0	24.3	34.8	40.7	43.2	43.2
142.5°	30.8	30.2	26.9	21.6	13.0	5.8	13.0	20.9	26.9	29.5	30.2
145°	19.7	19.7	17.0	13.0	6.6	1.9	5.2	12.4	16.3	19.0	19.0
147.5°	12.4	12.4	10.5	7.1	1.9	1.3	1.9	5.8	9.8	11.8	12.4
150°	7.1	7.1	5.2	2.6	1.3	0.7	1.3	1.9	4.0	5.8	5.8
152.5°	2.6	1.9	1.3	1.3	0.7	0.7	0.7	1.3	1.3	1.9	1.9
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)