

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: P240108

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7883.8 lumens
Efficiency: N/A
Efficacy: 82.1 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: B3 - U4 - G3

Input Watts (W): 96
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



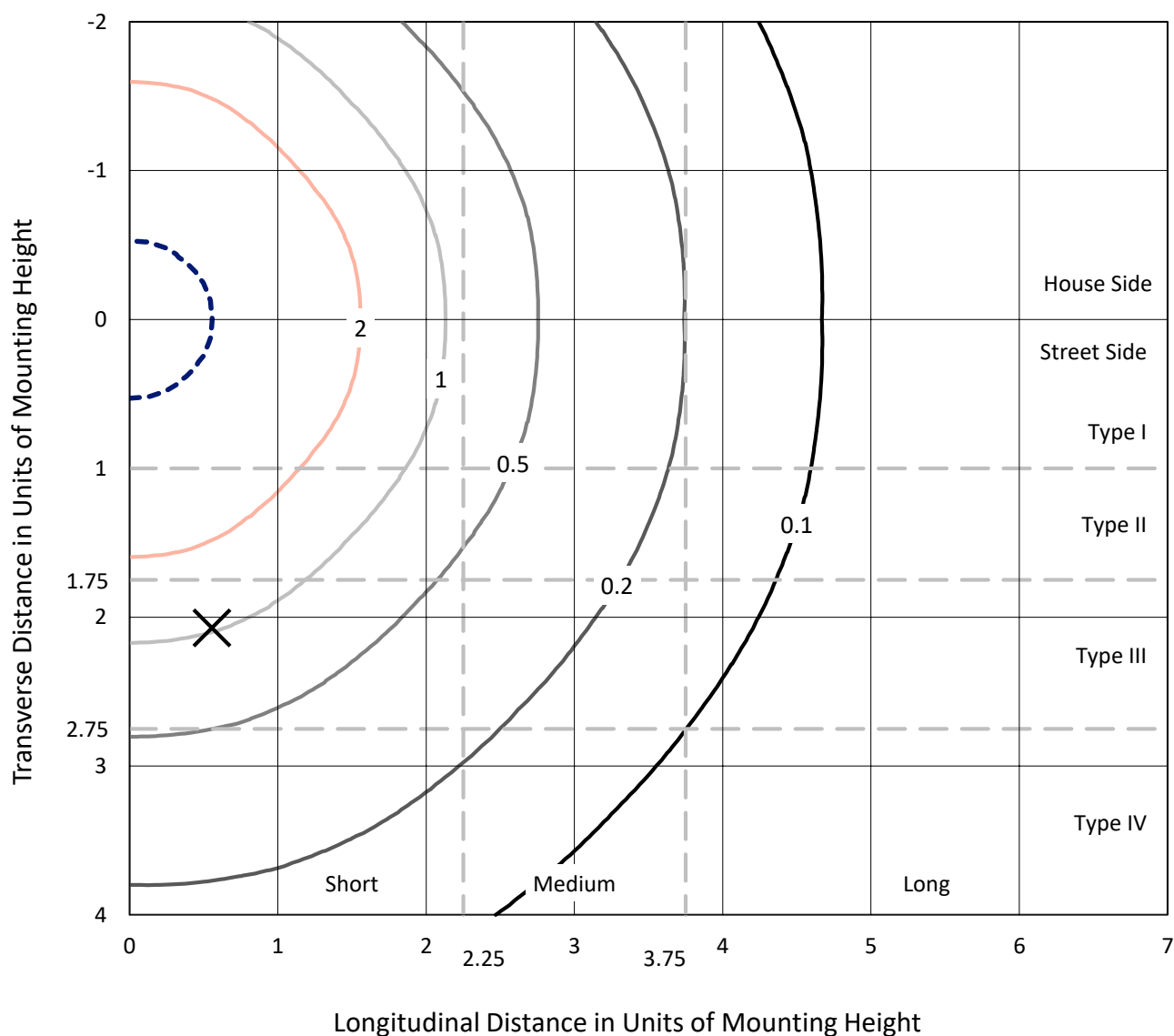
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

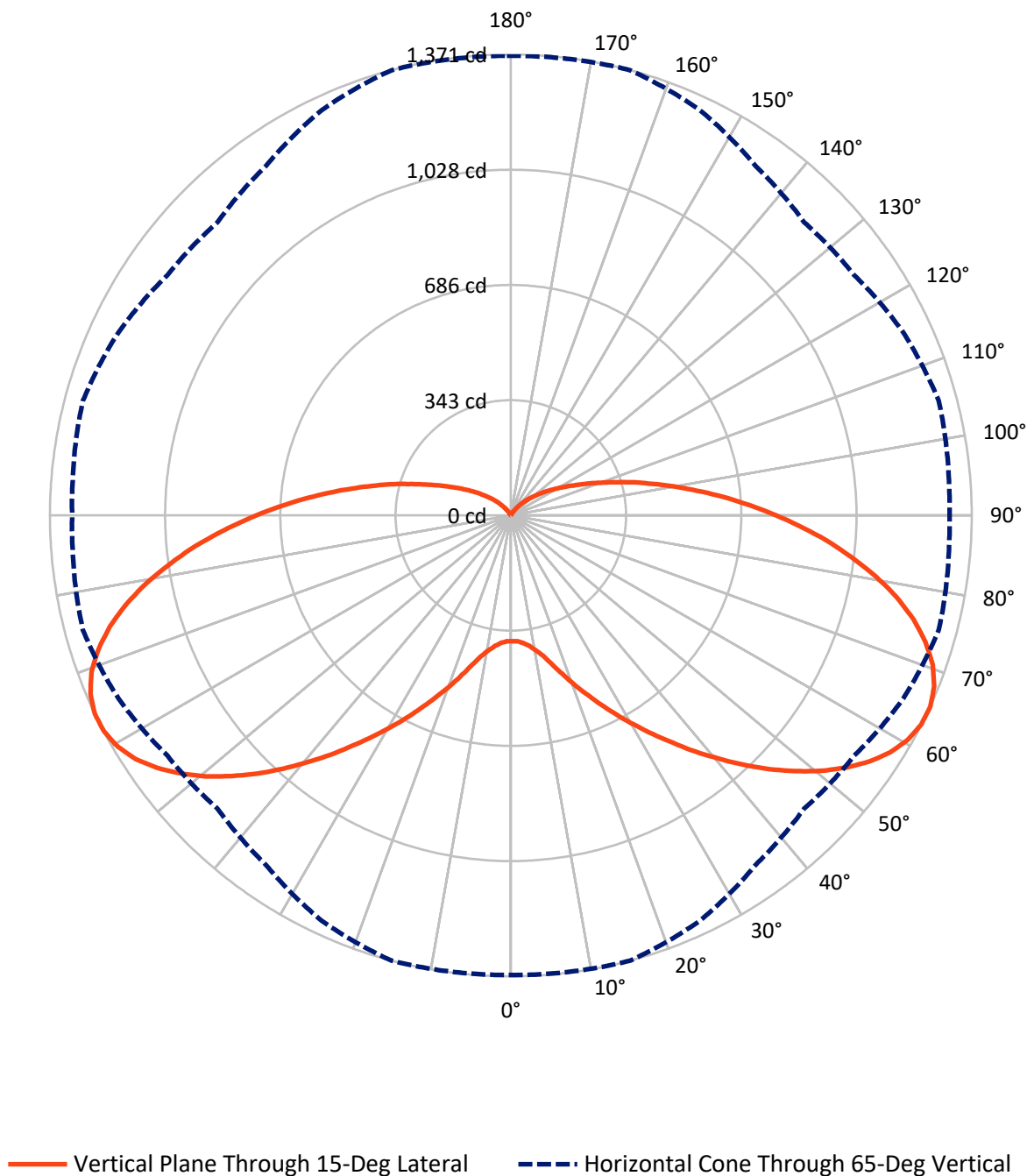


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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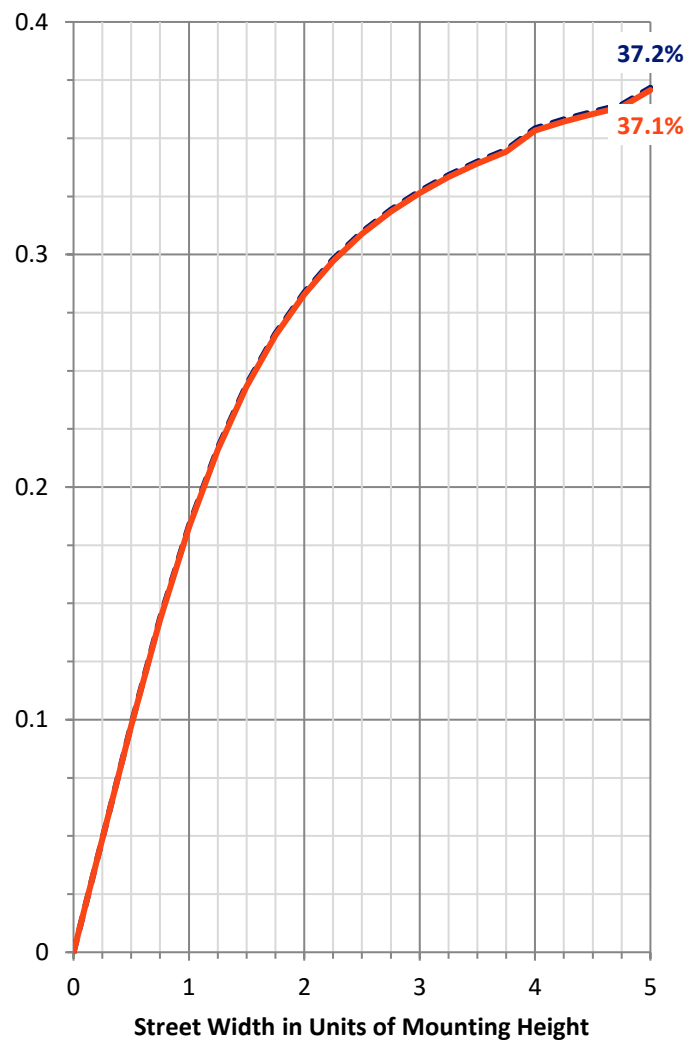
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.7	734.2	3941.9
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	3207.7	734.2	3941.9
	% Fixture	40.7	9.3	50.0
Total	Lumens	6415.5	1468.4	7883.8
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	0.5
10°-20°	131.9	1.7
20°-30°	288.4	3.7
30°-40°	519.5	6.6
40°-50°	812.7	10.3
50°-60°	1106.9	14.0
60°-70°	1284.6	16.3
70°-80°	1241.0	15.7
80°-90°	993.3	12.6
90°-100°	676.6	8.6
100°-110°	408.2	5.2
110°-120°	222.7	2.8
120°-130°	107.9	1.4
130°-140°	42.0	0.5
140°-150°	10.0	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6415.5	81.4
0°-180°	7883.8	100.0

Coefficient of Utilization



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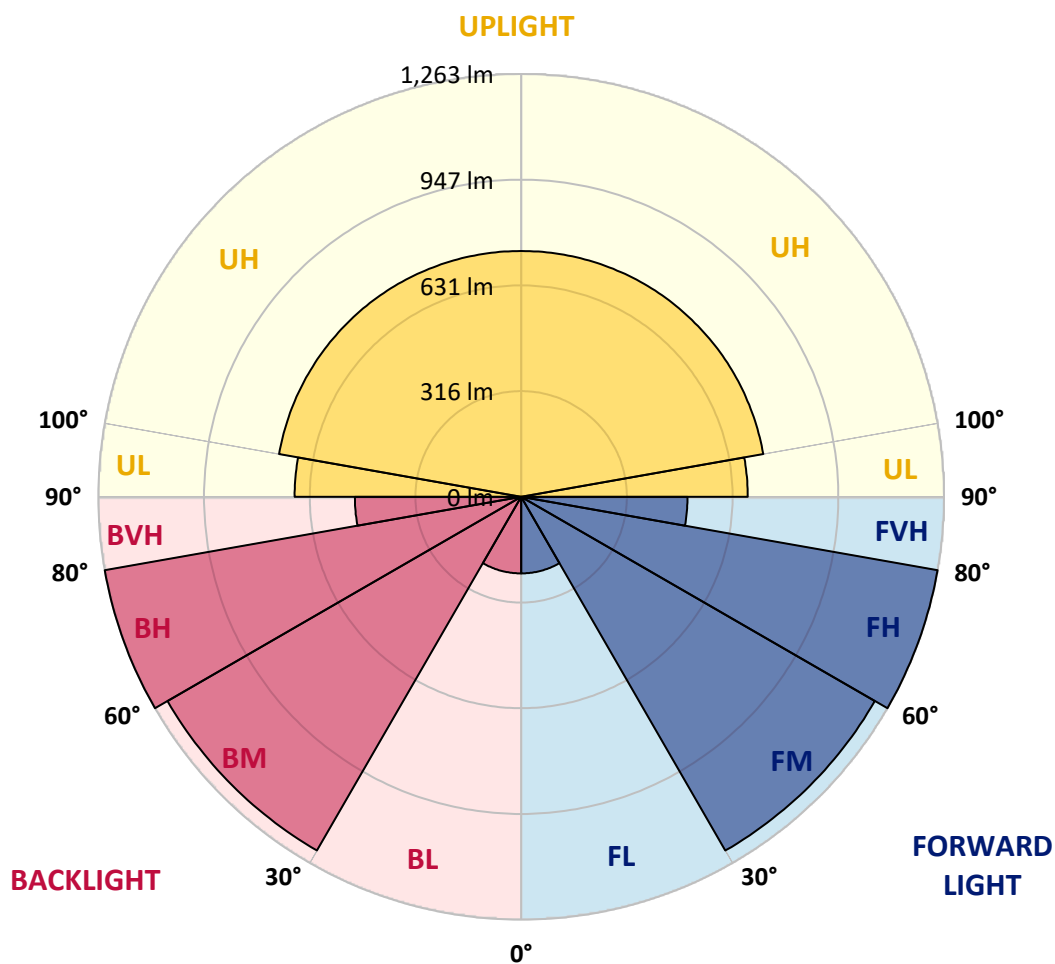
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	2.9			
FM	(30°-60°)	1219.6	15.5			
FH	(60°-80°)	1262.8	16.0			G1/1800
FVH	(80°-90°)	496.6	6.3			G3/500
BL	(0°-30°)	228.7	2.9	B1/500		
BM	(30°-60°)	1219.6	15.5	B2/2500		
BH	(60°-80°)	1262.8	16.0	B3/2500		G1/1800
BVH	(80°-90°)	496.6	6.3			G3/500
UL	(90°-100°)	676.6	8.6		U4/1000	
UH	(100°-180°)	734.2	9.3		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	375.9	375.9	374.9	374.9	374.9	374.9	374.9	375.9	374.9	375.9	375.9
5°	380.8	381.9	380.8	380.8	381.9	380.8	380.8	381.9	380.8	380.8	380.8
7.5°	392.7	392.7	391.7	391.7	391.7	390.8	390.8	391.7	390.8	390.8	390.8
10°	408.6	408.6	407.5	407.5	406.5	405.6	405.6	405.6	406.5	406.5	406.5
12.5°	429.3	430.3	428.3	427.3	426.4	425.3	425.3	425.3	425.3	426.4	425.3
15°	460.9	460.9	459.0	455.0	452.0	451.0	449.1	451.0	453.1	454.0	456.0
17.5°	499.5	497.6	495.6	491.6	485.7	479.8	482.7	485.7	488.7	489.7	489.7
20°	539.1	539.1	536.1	530.2	525.3	520.3	521.3	523.2	525.3	527.2	526.2
22.5°	579.7	581.6	577.7	573.8	569.8	568.8	563.9	563.9	564.8	566.8	566.8
25°	628.1	626.1	623.2	619.2	618.3	618.3	611.3	607.3	608.3	609.4	609.4
27.5°	677.6	675.7	671.7	667.7	668.7	666.7	661.7	654.8	651.8	654.8	652.8
30°	727.0	726.1	722.1	719.1	721.1	719.1	713.2	702.4	700.3	701.3	702.4
32.5°	779.5	780.5	775.5	774.5	775.5	770.6	765.6	757.7	750.7	753.7	753.7
35°	837.8	837.8	830.9	831.9	828.9	824.0	818.1	812.1	805.2	808.1	806.2
37.5°	897.2	896.2	891.3	890.3	884.3	874.4	871.5	868.5	860.6	862.6	863.6
40°	960.4	957.5	950.6	949.6	937.7	926.9	924.8	924.8	916.0	921.0	921.9
42.5°	1021.8	1019.9	1013.9	1008.9	991.1	978.2	975.3	982.2	976.3	979.3	979.3
45°	1083.1	1078.2	1076.2	1067.3	1043.6	1026.7	1027.8	1036.7	1037.7	1037.7	1035.6
47.5°	1141.5	1140.5	1136.6	1119.7	1093.0	1074.2	1076.2	1090.1	1095.1	1094.0	1095.1
50°	1198.9	1195.9	1194.9	1173.1	1137.5	1115.8	1120.7	1138.5	1149.4	1146.4	1147.4
52.5°	1253.3	1248.3	1246.4	1220.7	1179.1	1154.4	1159.3	1185.0	1197.9	1197.0	1197.0
55°	1295.8	1293.8	1292.8	1261.2	1213.7	1187.0	1194.0	1222.6	1242.4	1238.5	1237.5
57.5°	1331.5	1329.4	1330.4	1293.8	1241.5	1210.8	1219.7	1255.3	1278.0	1272.0	1272.0
60°	1357.1	1355.2	1356.1	1317.6	1261.2	1227.5	1238.5	1276.0	1302.7	1295.8	1294.9
62.5°	1369.0	1368.0	1370.0	1329.4	1270.1	1235.5	1247.4	1287.9	1316.6	1307.7	1305.7
65°	1367.1	1368.0	1371.0	1330.4	1269.1	1233.5	1246.4	1287.9	1317.6	1307.7	1304.8
67.5°	1351.2	1354.2	1358.2	1318.6	1257.2	1222.6	1234.5	1276.0	1305.7	1294.9	1289.8
70°	1321.6	1324.5	1331.5	1293.8	1235.5	1200.8	1211.8	1252.3	1279.0	1266.1	1260.2
72.5°	1275.0	1282.0	1289.8	1257.2	1201.9	1169.2	1180.1	1217.7	1242.4	1225.6	1218.6
75°	1216.7	1226.6	1237.5	1209.7	1158.3	1128.6	1139.6	1173.1	1190.0	1174.1	1161.3
77.5°	1151.4	1161.3	1174.1	1151.4	1105.9	1080.1	1087.1	1114.8	1129.6	1109.9	1100.0
80°	1072.3	1083.1	1101.0	1086.1	1049.5	1023.8	1031.7	1051.5	1058.4	1037.7	1024.8
82.5°	994.1	1004.0	1020.8	1014.9	984.2	963.4	967.4	982.2	985.2	960.4	949.6
85°	910.0	918.9	940.7	939.7	917.0	900.2	903.2	912.1	905.1	878.4	866.5
87.5°	825.9	830.9	855.6	859.6	847.7	835.9	834.8	834.8	825.0	798.3	789.4
90°	743.9	748.8	772.5	785.4	778.5	768.5	766.6	762.6	742.9	718.1	712.2
92.5°	664.7	666.7	693.5	711.3	709.2	702.4	699.4	691.4	668.7	640.0	636.1
95°	590.5	592.5	618.3	638.0	642.9	641.0	635.0	624.2	594.5	565.8	564.8
97.5°	522.3	521.3	546.1	570.8	580.6	580.6	571.7	556.9	528.3	499.5	498.6
100°	459.9	458.0	480.8	510.5	521.3	523.2	515.4	495.6	462.9	440.2	441.2
102.5°	403.6	401.6	421.4	450.1	465.9	469.8	460.9	437.2	406.5	385.8	386.8
105°	354.1	352.1	369.0	396.7	414.5	418.4	408.6	385.8	352.1	337.3	339.3
107.5°	307.6	306.7	318.5	346.2	366.0	371.9	362.0	337.3	305.7	294.8	295.7
110°	271.1	270.1	276.0	301.7	323.5	329.4	317.5	291.8	265.1	258.2	259.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	238.3	235.4	239.4	262.2	281.9	288.9	277.0	250.2	229.4	226.5	227.5
115°	207.8	207.8	206.7	224.5	245.3	251.2	239.4	215.6	198.9	197.8	197.8
117.5°	183.0	181.1	180.0	190.9	209.7	216.7	205.7	184.0	173.1	174.1	175.1
120°	159.3	159.3	156.3	161.2	178.1	183.0	174.1	157.3	150.4	152.3	153.3
122.5°	139.4	138.5	135.5	136.5	148.3	154.3	145.4	132.6	130.5	134.5	134.5
125°	120.7	119.7	116.7	114.8	120.7	125.6	119.7	111.8	112.7	116.7	117.7
127.5°	103.8	102.9	98.9	94.9	97.9	100.9	97.0	93.0	97.9	100.9	101.9
130°	89.0	88.1	84.1	78.2	77.1	79.2	76.2	77.1	83.1	88.1	88.1
132.5°	75.2	75.2	70.3	63.3	59.3	59.3	59.3	63.3	70.3	74.2	75.2
135°	62.3	62.3	58.4	50.4	43.5	42.6	43.5	50.4	58.4	61.4	62.3
137.5°	51.5	50.4	46.4	39.6	30.7	28.6	30.7	38.6	46.4	50.4	50.4
140°	40.5	39.6	35.6	29.7	21.8	17.8	21.8	28.6	35.6	39.6	39.6
142.5°	29.7	29.7	25.7	20.8	13.8	10.8	13.8	20.8	26.7	28.6	29.7
145°	20.8	20.8	17.8	12.9	7.9	5.9	7.9	13.8	17.8	20.8	20.8
147.5°	13.8	13.8	11.9	7.9	4.9	3.0	4.9	8.9	11.9	13.8	13.8
150°	7.9	7.9	7.0	4.9	1.9	1.0	1.9	4.9	7.0	7.9	7.9
152.5°	4.0	4.0	3.0	1.9	1.0	1.0	1.0	1.9	4.0	4.0	4.9
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9
157.5°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)