

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: P240107

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240107
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-AF24-90-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 7867.5 lumens
Efficiency: N/A
Efficacy: 83.7 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): 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



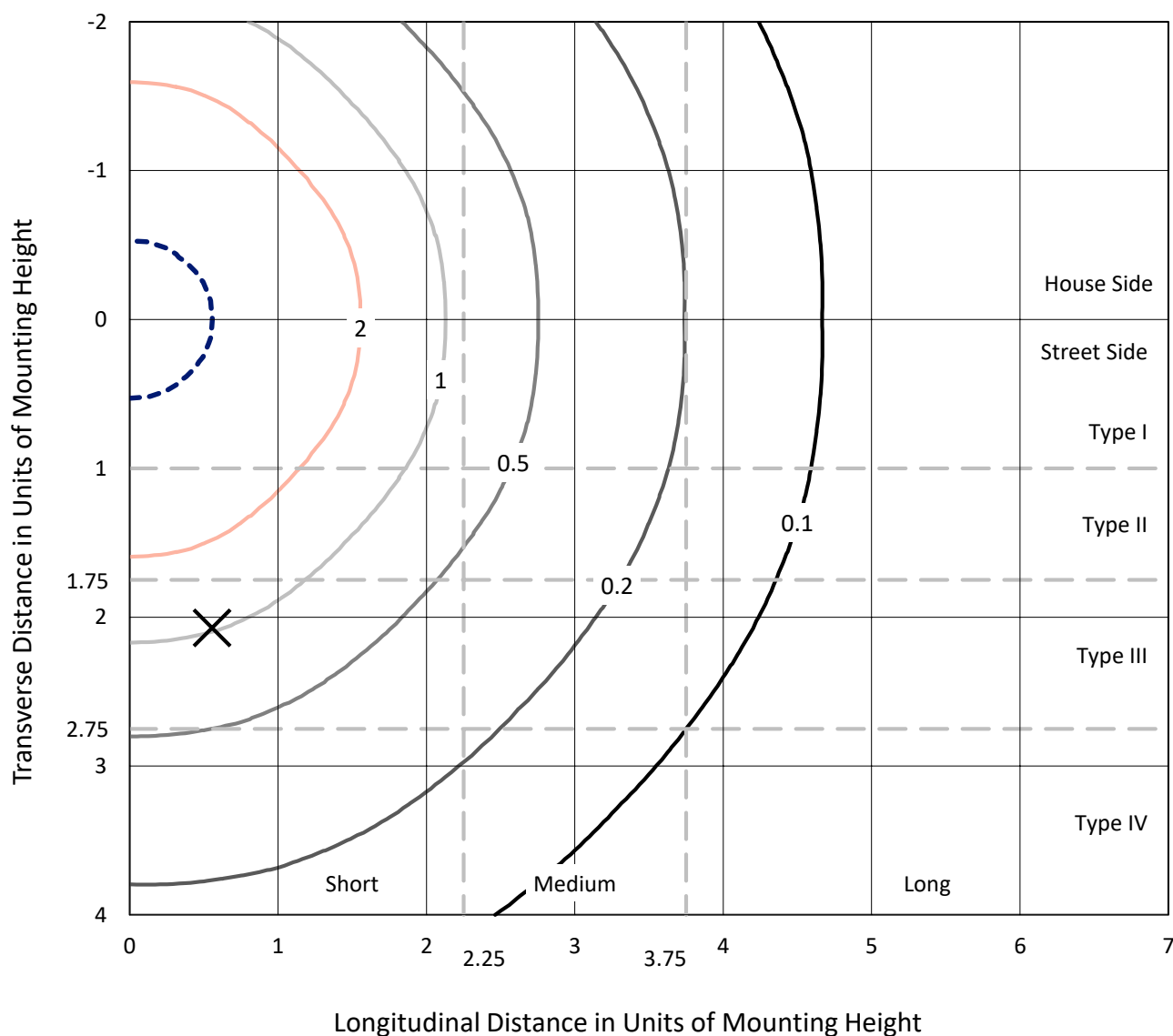
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

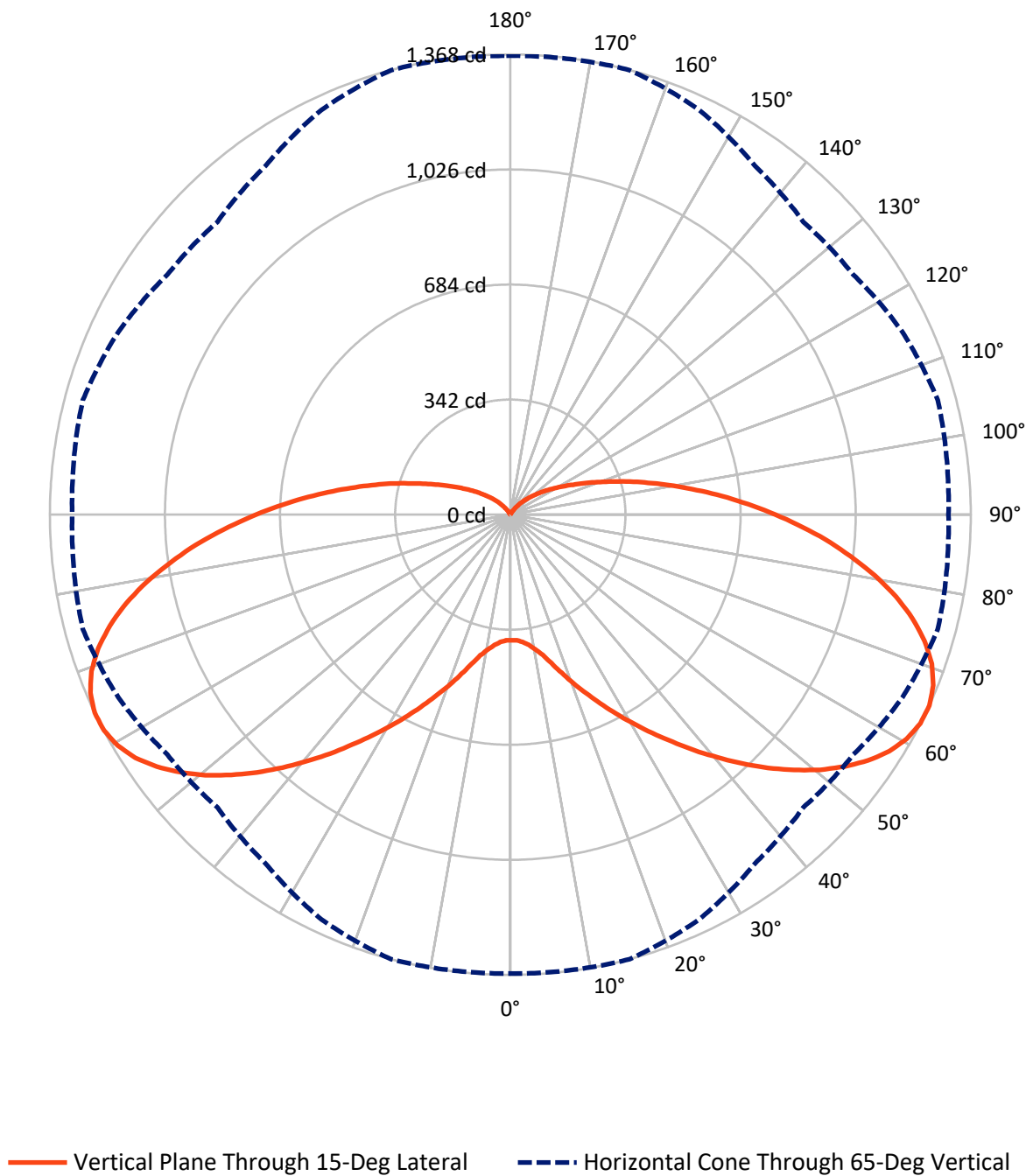


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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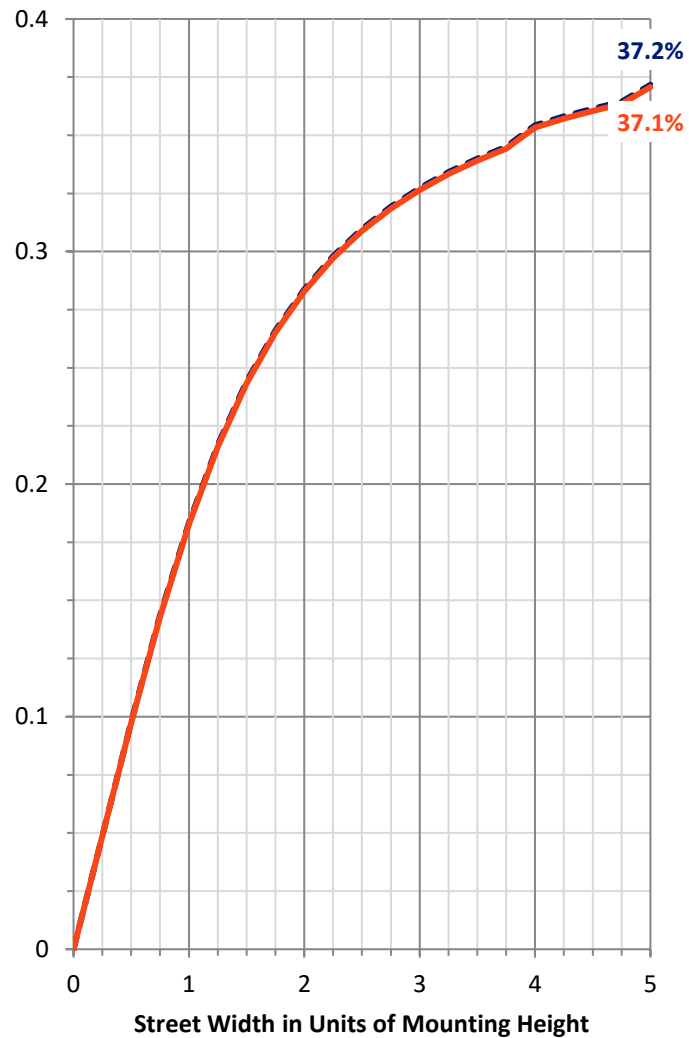
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3201.1	732.7	3933.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	3201.1	732.7	3933.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	6402.2	1465.3	7867.5
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	0.5
10°-20°	131.6	1.7
20°-30°	287.8	3.7
30°-40°	518.5	6.6
40°-50°	811.0	10.3
50°-60°	1104.6	14.0
60°-70°	1281.9	16.3
70°-80°	1238.5	15.7
80°-90°	991.2	12.6
90°-100°	675.2	8.6
100°-110°	407.4	5.2
110°-120°	222.3	2.8
120°-130°	107.7	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°	6402.2	81.4
0°-180°	7867.5	100.0

Coefficient of Utilization



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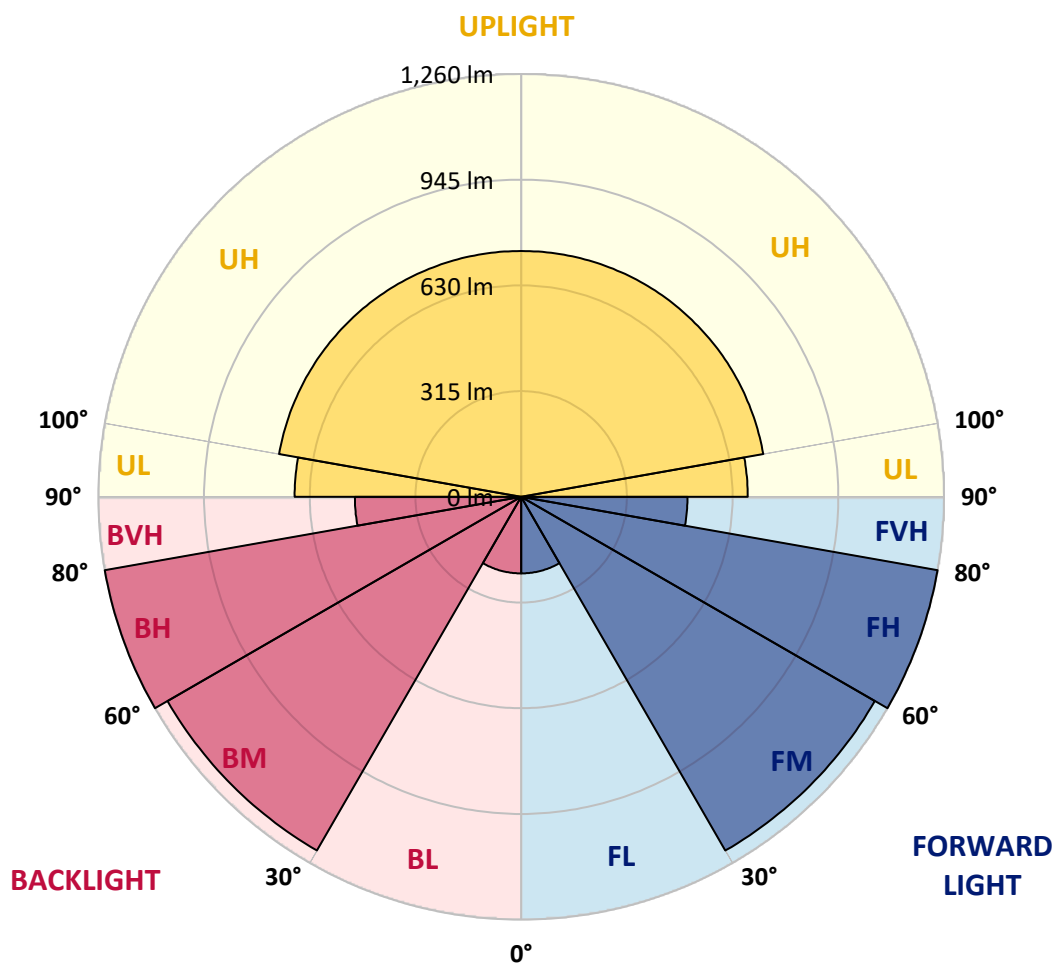
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.3	2.9			
FM	(30°-60°)	1217.1	15.5			
FH	(60°-80°)	1260.2	16.0			G1/1800
FVH	(80°-90°)	495.6	6.3			G3/500
BL	(0°-30°)	228.3	2.9	B1/500		
BM	(30°-60°)	1217.1	15.5	B2/2500		
BH	(60°-80°)	1260.2	16.0	B3/2500		G1/1800
BVH	(80°-90°)	495.6	6.3			G3/500
UL	(90°-100°)	675.2	8.6		U4/1000	
UH	(100°-180°)	732.7	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°	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2
2.5°	375.1	375.1	374.1	374.1	374.1	374.1	374.1	375.1	374.1	375.1	375.1
5°	380.0	381.0	380.0	380.0	381.0	380.0	380.0	381.0	380.0	380.0	380.0
7.5°	391.9	391.9	390.9	390.9	390.9	389.9	389.9	390.9	389.9	389.9	389.9
10°	407.6	407.6	406.7	406.7	405.7	404.7	404.7	404.7	405.7	405.7	405.7
12.5°	428.4	429.4	427.4	426.5	425.4	424.4	424.4	424.4	424.4	425.4	424.4
15°	460.0	460.0	458.0	454.1	451.1	450.1	448.2	450.1	452.1	453.1	455.1
17.5°	498.5	496.5	494.6	490.6	484.7	478.7	481.7	484.7	487.6	488.7	488.7
20°	538.0	538.0	535.0	529.1	524.2	519.2	520.2	522.2	524.2	526.1	525.2
22.5°	578.5	580.4	576.4	572.5	568.6	567.6	562.6	562.6	563.6	565.6	565.6
25°	626.9	624.8	621.9	618.0	616.9	616.9	610.1	606.1	607.1	608.0	608.0
27.5°	676.2	674.2	670.2	666.4	667.3	665.3	660.4	653.5	650.5	653.5	651.5
30°	725.6	724.6	720.6	717.6	719.6	717.6	711.7	700.8	698.9	699.9	700.8
32.5°	777.9	778.9	773.9	772.9	773.9	769.0	764.0	756.2	749.2	752.2	752.2
35°	836.1	836.1	829.2	830.1	827.3	822.2	816.3	810.4	803.5	806.5	804.6
37.5°	895.3	894.4	889.4	888.4	882.5	872.6	869.6	866.7	858.8	860.8	861.7
40°	958.5	955.5	948.6	947.7	935.8	925.0	923.0	923.0	914.1	919.0	920.0
42.5°	1019.7	1017.7	1011.8	1006.9	989.1	976.3	973.3	980.2	974.3	977.2	977.2
45°	1081.0	1075.9	1074.0	1065.1	1041.5	1024.6	1025.6	1034.5	1035.5	1035.5	1033.5
47.5°	1139.2	1138.1	1134.2	1117.5	1090.8	1072.1	1074.0	1087.8	1092.7	1091.8	1092.7
50°	1196.4	1193.5	1192.5	1170.8	1135.2	1113.5	1118.4	1136.2	1147.0	1144.1	1145.1
52.5°	1250.7	1245.7	1243.8	1218.1	1176.7	1151.9	1157.0	1182.5	1195.4	1194.4	1194.4
55°	1293.1	1291.2	1290.1	1258.5	1211.2	1184.6	1191.4	1220.1	1239.8	1235.9	1234.9
57.5°	1328.7	1326.7	1327.7	1291.2	1238.8	1208.2	1217.1	1252.7	1275.4	1269.5	1269.5
60°	1354.3	1352.3	1353.4	1314.8	1258.5	1225.0	1235.9	1273.4	1300.1	1293.1	1292.2
62.5°	1366.2	1365.2	1367.2	1326.7	1267.4	1233.0	1244.7	1285.2	1313.9	1305.0	1303.0
65°	1364.2	1365.2	1368.2	1327.7	1266.5	1230.9	1243.8	1285.2	1314.8	1305.0	1302.0
67.5°	1348.5	1351.4	1355.3	1315.8	1254.6	1220.1	1231.9	1273.4	1303.0	1292.2	1287.2
70°	1318.8	1321.8	1328.7	1291.2	1233.0	1198.4	1209.2	1249.7	1276.3	1263.5	1257.6
72.5°	1272.4	1279.3	1287.2	1254.6	1199.3	1166.8	1177.6	1215.2	1239.8	1223.0	1216.2
75°	1214.1	1224.1	1234.9	1207.3	1155.9	1126.3	1137.2	1170.8	1187.5	1171.7	1158.9
77.5°	1149.0	1158.9	1171.7	1149.0	1103.6	1078.0	1084.8	1112.5	1127.3	1107.5	1097.7
80°	1070.0	1081.0	1098.6	1083.8	1047.3	1021.7	1029.6	1049.3	1056.2	1035.5	1022.6
82.5°	992.1	1002.0	1018.8	1012.8	982.2	961.5	965.4	980.2	983.2	958.5	947.7
85°	908.2	917.1	938.8	937.7	915.0	898.3	901.2	910.1	903.3	876.6	864.7
87.5°	824.3	829.2	853.9	857.8	846.0	834.1	833.1	833.1	823.3	796.6	787.8
90°	742.4	747.3	770.9	783.8	776.8	767.0	765.1	761.1	741.3	716.7	710.7
92.5°	663.4	665.3	691.9	709.7	707.8	700.8	697.9	690.0	667.3	638.6	634.7
95°	589.3	591.3	616.9	636.7	641.6	639.7	633.7	622.9	593.3	564.7	563.6
97.5°	521.2	520.2	544.9	569.6	579.4	579.4	570.6	555.8	527.1	498.5	497.5
100°	459.0	457.1	479.8	509.3	520.2	522.2	514.3	494.6	462.0	439.3	440.3
102.5°	402.7	400.8	420.5	449.2	464.9	468.9	460.0	436.3	405.7	384.9	386.0
105°	353.4	351.4	368.2	395.9	413.6	417.6	407.6	384.9	351.4	336.7	338.6
107.5°	307.0	306.0	317.8	345.5	365.2	371.1	361.3	336.7	305.0	294.2	295.1
110°	270.5	269.4	275.4	301.1	322.7	328.7	316.9	291.2	264.5	257.7	258.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	237.9	235.0	238.9	261.6	281.3	288.3	276.4	249.7	229.0	226.1	227.0
115°	207.2	207.2	206.3	224.0	244.8	250.7	238.9	215.2	198.5	197.4	197.4
117.5°	182.6	180.7	179.6	190.5	209.3	216.1	205.3	183.6	172.8	173.7	174.7
120°	159.0	159.0	156.0	160.9	177.7	182.6	173.7	156.9	150.1	152.0	153.0
122.5°	139.2	138.2	135.2	136.3	148.0	154.0	145.2	132.3	130.3	134.2	134.2
125°	120.4	119.5	116.5	114.5	120.4	125.4	119.5	111.5	112.5	116.5	117.4
127.5°	103.6	102.7	98.7	94.7	97.7	100.7	96.8	92.8	97.7	100.7	101.7
130°	88.8	87.9	83.9	77.9	77.0	79.0	76.0	77.0	83.0	87.9	87.9
132.5°	75.0	75.0	70.1	63.2	59.2	59.2	59.2	63.2	70.1	74.1	75.0
135°	62.2	62.2	58.2	50.3	43.5	42.5	43.5	50.3	58.2	61.2	62.2
137.5°	51.4	50.3	46.4	39.5	30.6	28.6	30.6	38.5	46.4	50.3	50.3
140°	40.5	39.5	35.5	29.6	21.7	17.8	21.7	28.6	35.5	39.5	39.5
142.5°	29.6	29.6	25.7	20.8	13.8	10.8	13.8	20.8	26.7	28.6	29.6
145°	20.8	20.8	17.8	12.8	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)