

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: P240099

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240099
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 7453.6 lumens
Efficiency: N/A
Efficacy: 77.6 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



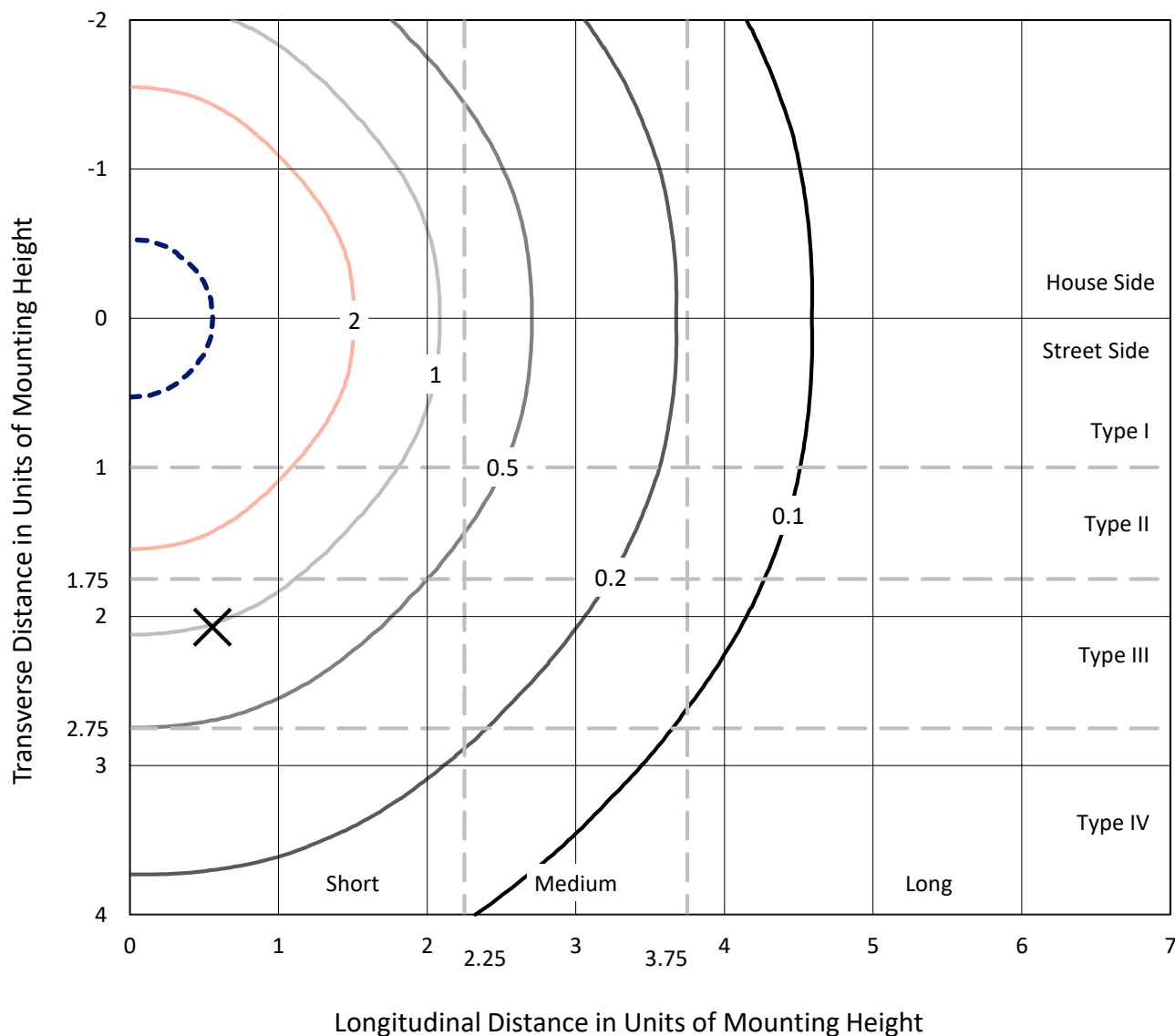
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

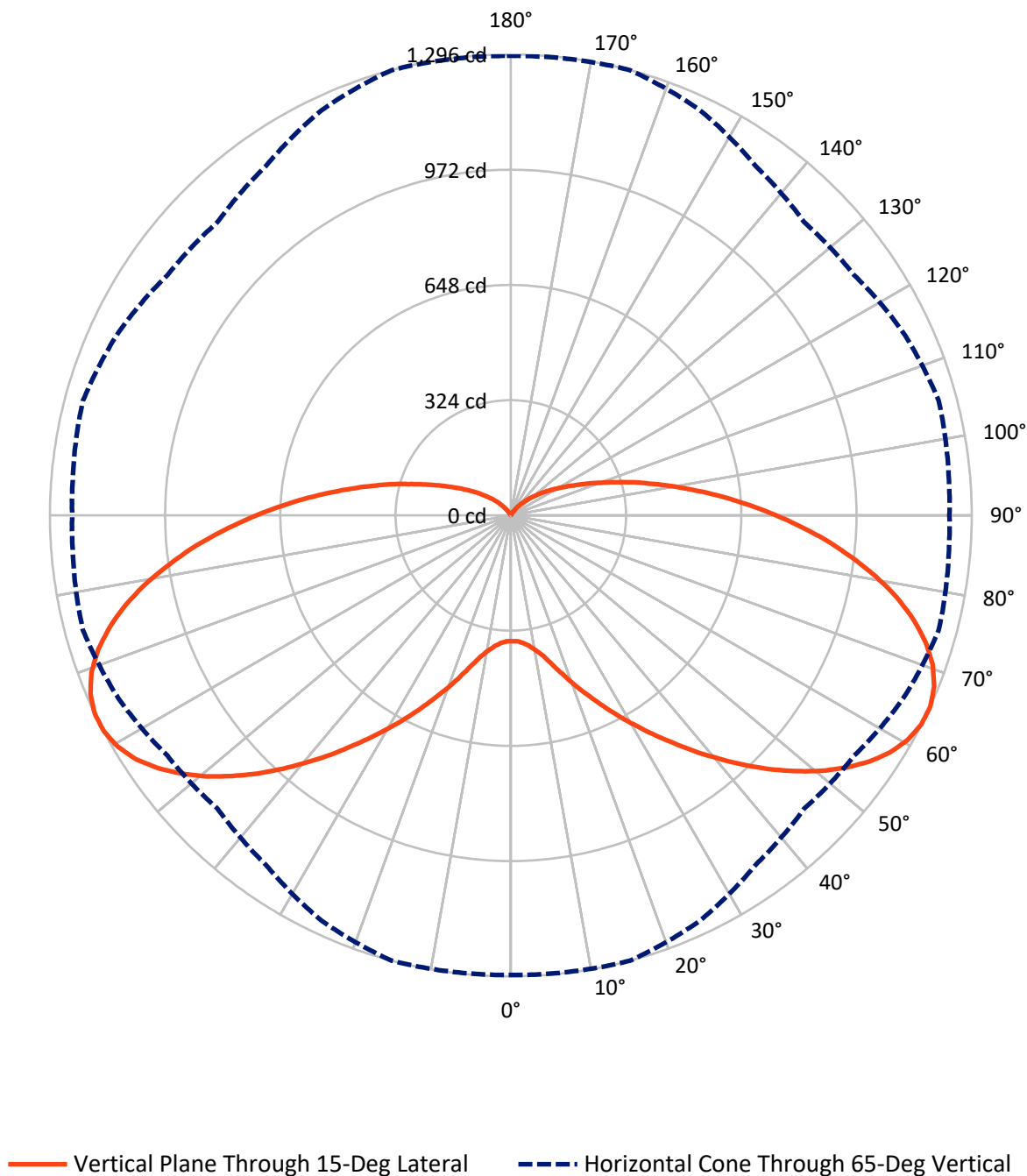


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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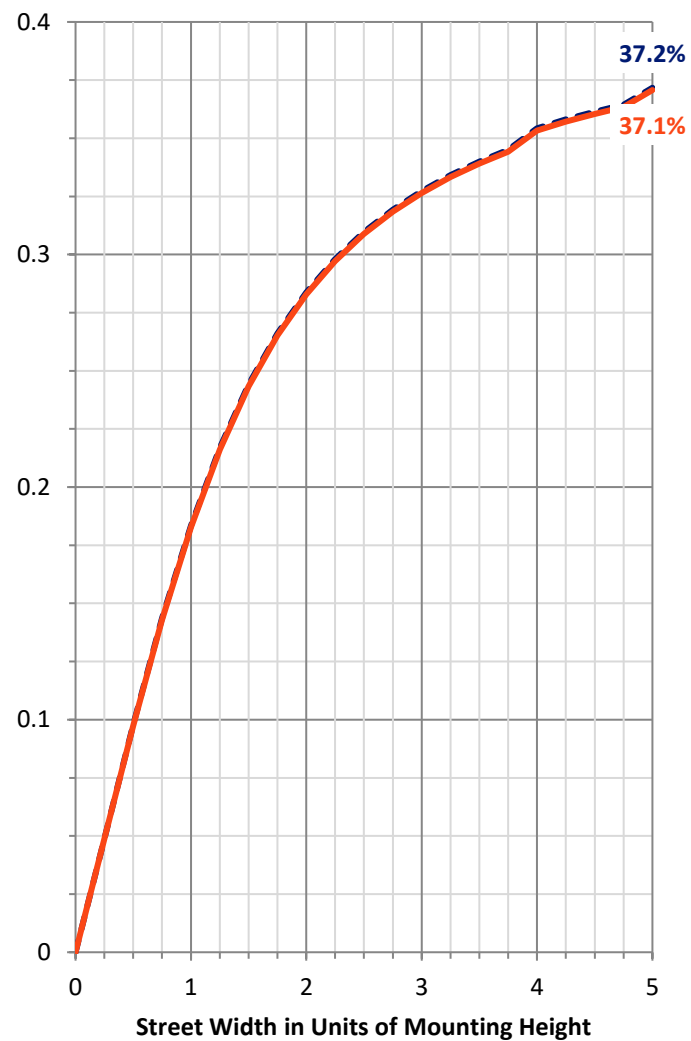
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.7	694.1	3726.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	3032.7	694.1	3726.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	6065.4	1388.2	7453.6
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	0.5
10°-20°	124.7	1.7
20°-30°	272.6	3.7
30°-40°	491.2	6.6
40°-50°	768.3	10.3
50°-60°	1046.5	14.0
60°-70°	1214.5	16.3
70°-80°	1173.3	15.7
80°-90°	939.1	12.6
90°-100°	639.7	8.6
100°-110°	386.0	5.2
110°-120°	210.6	2.8
120°-130°	102.0	1.4
130°-140°	39.7	0.5
140°-150°	9.4	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6065.4	81.4
0°-180°	7453.6	100.0

Coefficient of Utilization



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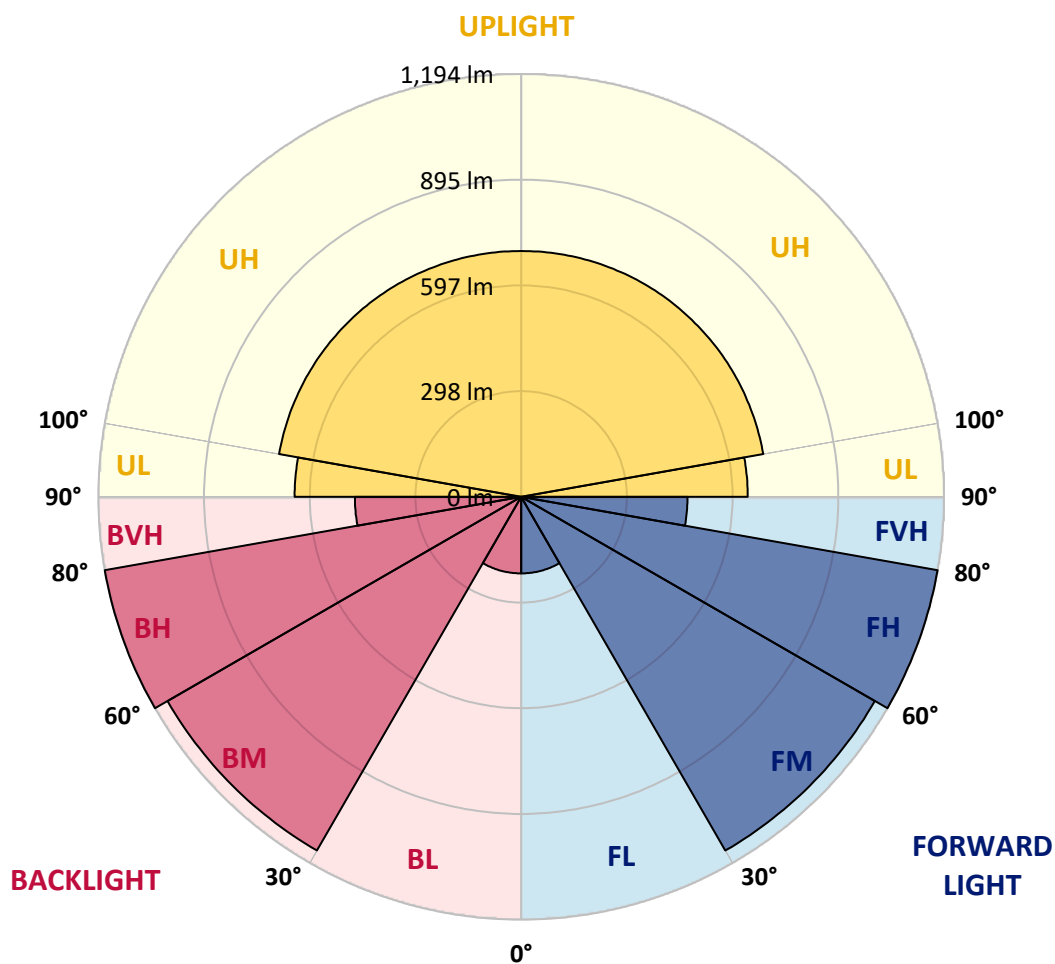
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.2	2.9			
FM	(30°-60°)	1153.0	15.5			
FH	(60°-80°)	1193.9	16.0			G1/1800
FVH	(80°-90°)	469.5	6.3			G3/500
BL	(0°-30°)	216.2	2.9	B1/500		
BM	(30°-60°)	1153.0	15.5	B2/2500		
BH	(60°-80°)	1193.9	16.0	B3/2500		G1/1800
BVH	(80°-90°)	469.5	6.3			G3/500
UL	(90°-100°)	639.7	8.6		U4/1000	
UH	(100°-180°)	694.1	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°	353.5	353.5	353.5	353.5	353.5	353.5	353.5	353.5	353.5	353.5	353.5
2.5°	355.4	355.4	354.4	354.4	354.4	354.4	354.4	355.4	354.4	355.4	355.4
5°	360.0	361.0	360.0	360.0	361.0	360.0	360.0	361.0	360.0	360.0	360.0
7.5°	371.3	371.3	370.4	370.4	370.4	369.4	369.4	370.4	369.4	369.4	369.4
10°	386.2	386.2	385.2	385.2	384.4	383.4	383.4	383.4	384.4	384.4	384.4
12.5°	405.9	406.8	405.0	404.0	403.0	402.2	402.2	402.2	402.2	403.0	402.2
15°	435.8	435.8	434.0	430.2	427.4	426.4	424.6	426.4	428.3	429.3	431.1
17.5°	472.3	470.4	468.5	464.8	459.2	453.5	456.3	459.2	461.9	462.9	462.9
20°	509.7	509.7	506.9	501.3	496.6	491.8	492.9	494.7	496.6	498.4	497.5
22.5°	548.1	549.9	546.2	542.4	538.6	537.8	533.0	533.0	533.9	535.9	535.9
25°	593.9	591.9	589.1	585.4	584.5	584.5	578.0	574.2	575.1	576.2	576.2
27.5°	640.6	638.7	635.1	631.3	632.2	630.3	625.6	619.1	616.3	619.1	617.2
30°	687.4	686.4	682.7	679.9	681.8	679.9	674.2	664.0	662.1	663.1	664.0
32.5°	737.0	737.8	733.2	732.2	733.2	728.5	723.9	716.4	709.8	712.6	712.6
35°	792.1	792.1	785.6	786.4	783.7	779.0	773.4	767.8	761.2	764.0	762.2
37.5°	848.2	847.3	842.6	841.8	836.1	826.8	824.0	821.1	813.7	815.5	816.3
40°	908.1	905.3	898.7	897.8	886.5	876.3	874.4	874.4	866.0	870.7	871.6
42.5°	966.1	964.2	958.5	954.0	937.1	924.9	922.1	928.7	923.0	925.9	925.9
45°	1024.1	1019.4	1017.5	1009.1	986.6	970.8	971.7	980.0	981.0	981.0	979.2
47.5°	1079.3	1078.3	1074.6	1058.6	1033.4	1015.7	1017.5	1030.7	1035.2	1034.3	1035.2
50°	1133.4	1130.7	1129.7	1109.2	1075.4	1054.9	1059.6	1076.4	1086.7	1083.9	1084.8
52.5°	1184.9	1180.2	1178.4	1154.0	1114.8	1091.4	1096.1	1120.4	1132.5	1131.6	1131.6
55°	1225.2	1223.2	1222.3	1192.3	1147.4	1122.2	1128.7	1155.9	1174.6	1170.8	1169.9
57.5°	1258.7	1256.9	1257.8	1223.2	1173.7	1144.7	1153.1	1186.8	1208.3	1202.6	1202.6
60°	1283.1	1281.2	1282.1	1245.7	1192.3	1160.6	1170.8	1206.4	1231.7	1225.2	1224.1
62.5°	1294.2	1293.4	1295.3	1256.9	1200.8	1168.1	1179.2	1217.5	1244.8	1236.4	1234.4
65°	1292.4	1293.4	1296.2	1257.8	1199.8	1166.3	1178.4	1217.5	1245.7	1236.4	1233.5
67.5°	1277.5	1280.3	1284.1	1246.6	1188.6	1155.9	1167.1	1206.4	1234.4	1224.1	1219.6
70°	1249.4	1252.2	1258.7	1223.2	1168.1	1135.3	1145.6	1184.0	1209.2	1197.1	1191.5
72.5°	1205.4	1212.0	1219.6	1188.6	1136.3	1105.3	1115.6	1151.3	1174.6	1158.7	1152.1
75°	1150.3	1159.7	1169.9	1143.7	1095.1	1067.0	1077.3	1109.2	1125.1	1110.1	1097.9
77.5°	1088.5	1097.9	1110.1	1088.5	1045.5	1021.2	1027.8	1054.1	1068.0	1049.3	1039.9
80°	1013.7	1024.1	1040.9	1026.8	992.3	967.9	975.4	994.1	1000.7	981.0	968.9
82.5°	939.8	949.3	965.1	959.6	930.6	910.9	914.6	928.7	931.4	908.1	897.8
85°	860.4	868.8	889.4	888.4	867.0	851.0	853.9	862.3	855.7	830.5	819.2
87.5°	780.8	785.6	808.9	812.7	801.4	790.3	789.3	789.3	780.0	754.7	746.2
90°	703.3	708.0	730.4	742.5	736.0	726.7	724.8	721.0	702.3	678.9	673.4
92.5°	628.5	630.3	655.5	672.4	670.6	664.0	661.2	653.7	632.2	605.1	601.4
95°	558.4	560.2	584.5	603.2	607.9	606.1	600.4	590.1	562.0	535.0	533.9
97.5°	493.8	492.9	516.2	539.6	548.9	548.9	540.5	526.5	499.5	472.3	471.4
100°	434.9	433.0	454.5	482.6	492.9	494.7	487.2	468.5	437.7	416.2	417.2
102.5°	381.6	379.6	398.4	425.6	440.6	444.2	435.8	413.3	384.4	364.7	365.7
105°	334.8	332.9	348.9	375.0	391.8	395.6	386.2	364.7	332.9	318.9	320.7
107.5°	290.8	289.9	301.1	327.3	346.1	351.6	342.3	318.9	289.0	278.7	279.6
110°	256.2	255.3	260.9	285.2	305.8	311.4	300.3	275.9	250.6	244.0	245.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	225.4	222.6	226.2	247.8	266.5	273.0	261.9	236.6	217.0	214.1	215.1
115°	196.3	196.3	195.5	212.3	231.9	237.5	226.2	203.9	187.9	187.1	187.1
117.5°	172.9	171.1	170.2	180.5	198.3	204.9	194.5	173.9	163.7	164.6	165.5
120°	150.6	150.6	147.7	152.4	168.4	172.9	164.6	148.7	142.1	144.0	145.0
122.5°	131.8	130.9	128.2	129.0	140.3	145.9	137.4	125.3	123.5	127.2	127.2
125°	114.0	113.2	110.4	108.5	114.0	118.8	113.2	105.7	106.6	110.4	111.3
127.5°	98.3	97.2	93.5	89.8	92.6	95.4	91.7	88.0	92.6	95.4	96.3
130°	84.1	83.2	79.5	73.9	72.9	74.9	72.0	72.9	78.5	83.2	83.2
132.5°	71.1	71.1	66.4	59.9	56.2	56.2	56.2	59.9	66.4	70.2	71.1
135°	58.9	58.9	55.1	47.7	41.2	40.2	41.2	47.7	55.1	58.0	58.9
137.5°	48.6	47.7	43.9	37.3	29.0	27.1	29.0	36.5	43.9	47.7	47.7
140°	38.4	37.3	33.7	28.1	20.5	16.8	20.5	27.1	33.7	37.3	37.3
142.5°	28.1	28.1	24.4	19.6	13.1	10.3	13.1	19.6	25.2	27.1	28.1
145°	19.6	19.6	16.8	12.1	7.4	5.6	7.4	13.1	16.8	19.6	19.6
147.5°	13.1	13.1	11.3	7.4	4.7	2.8	4.7	8.4	11.3	13.1	13.1
150°	7.4	7.4	6.5	4.7	1.8	1.0	1.8	4.7	6.5	7.4	7.4
152.5°	3.8	3.8	2.8	1.8	1.0	1.0	1.0	1.8	3.8	3.8	4.7
155°	1.8	1.8	1.8	1.0	0.0	0.0	0.0	1.0	1.8	1.8	1.8
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)