

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: P240106

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240106
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-AF24-80-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7274.2 lumens
Efficiency: N/A
Efficacy: 87.6 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): 83
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



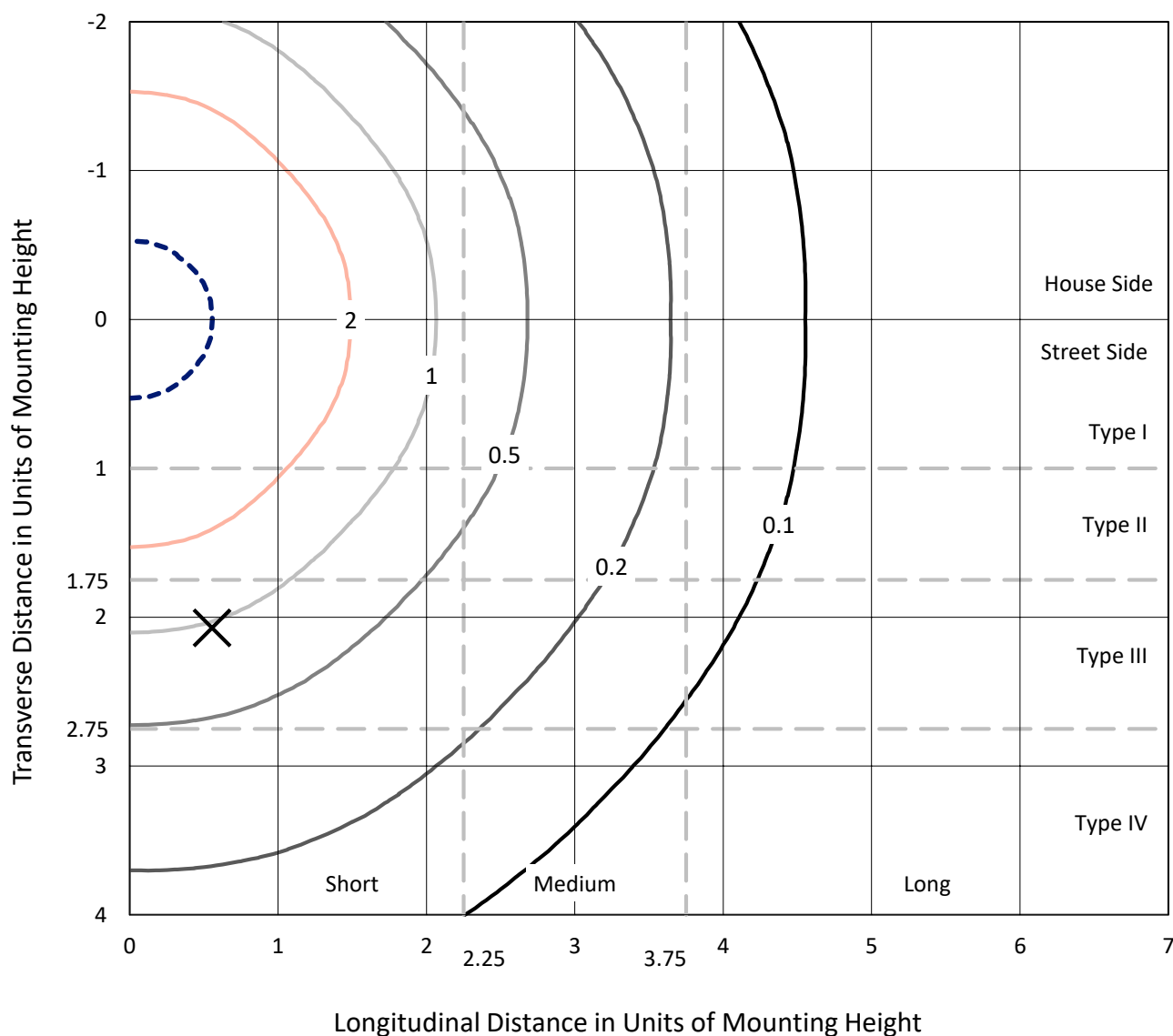
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

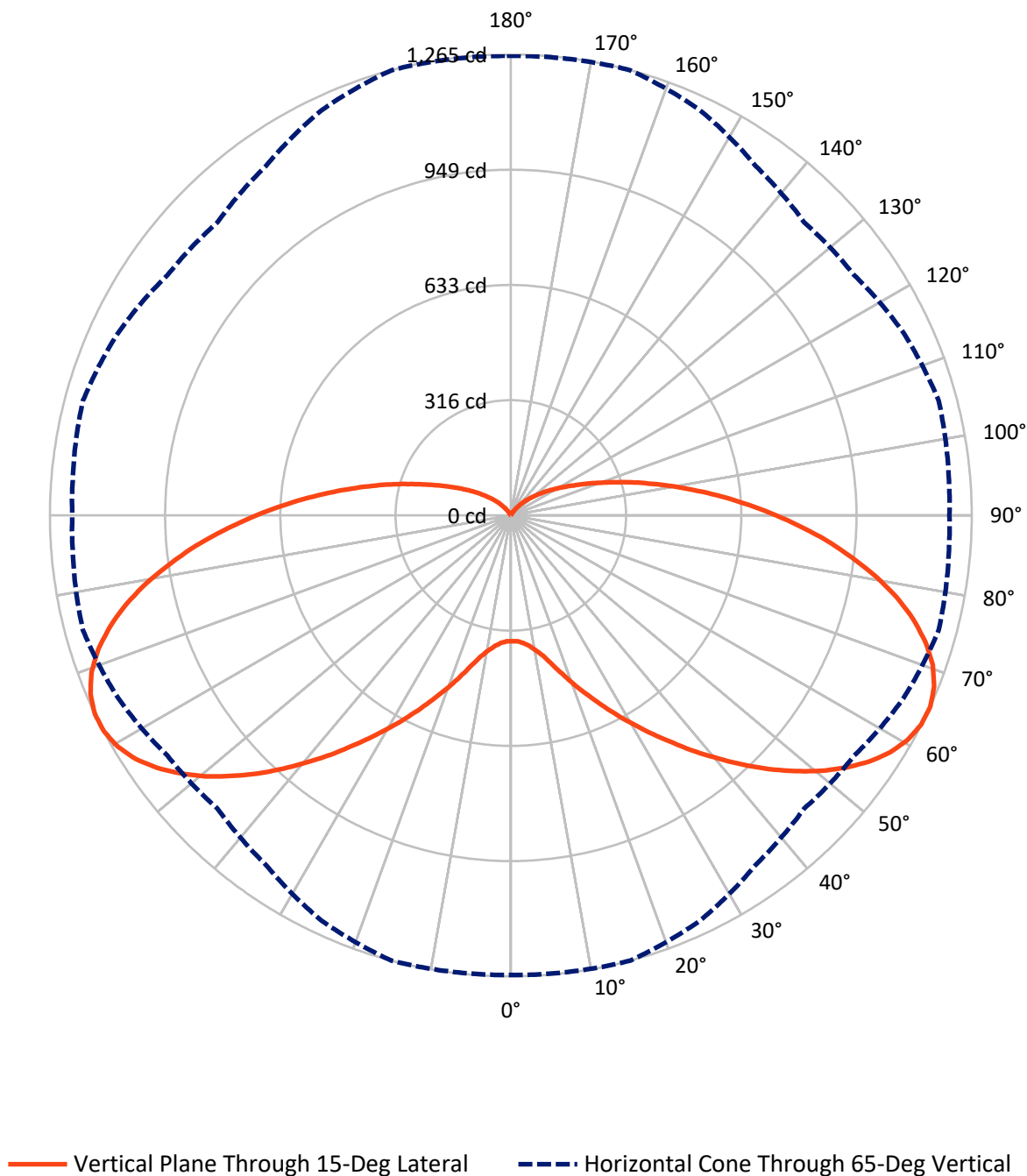


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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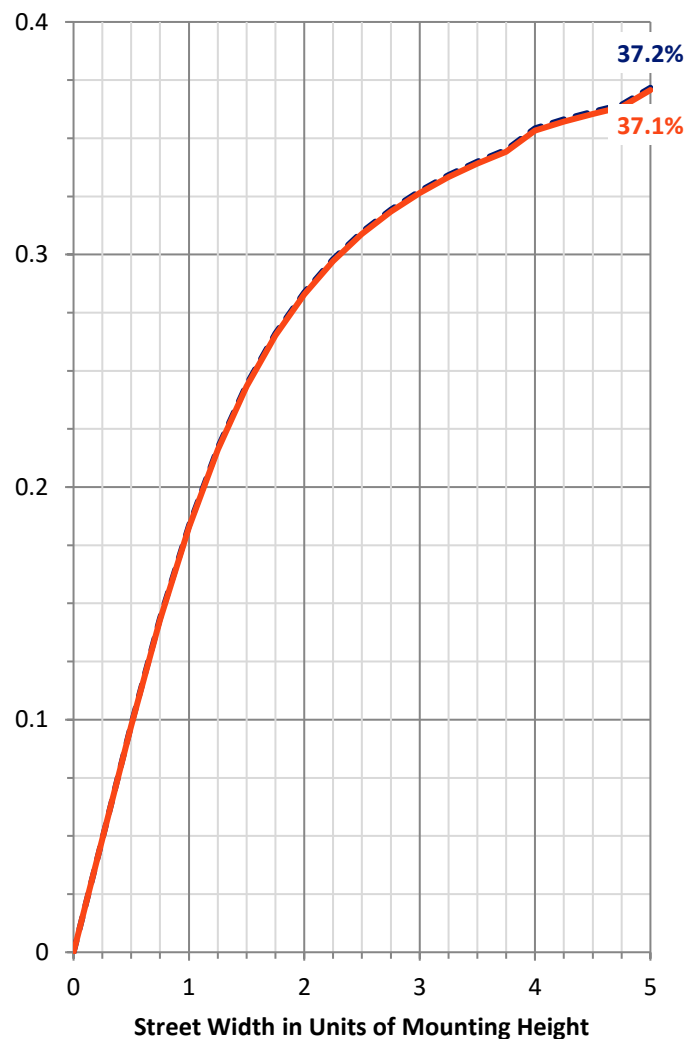
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.7	677.4	3637.1
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2959.7	677.4	3637.1
	% Fixture	40.7	9.3	50.0
Total	Lumens	5919.4	1354.8	7274.2
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	0.5
10°-20°	121.7	1.7
20°-30°	266.1	3.7
30°-40°	479.4	6.6
40°-50°	749.8	10.3
50°-60°	1021.3	14.0
60°-70°	1185.3	16.3
70°-80°	1145.0	15.7
80°-90°	916.5	12.6
90°-100°	624.3	8.6
100°-110°	376.7	5.2
110°-120°	205.5	2.8
120°-130°	99.6	1.4
130°-140°	38.8	0.5
140°-150°	9.2	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5919.4	81.4
0°-180°	7274.2	100.0

Coefficient of Utilization



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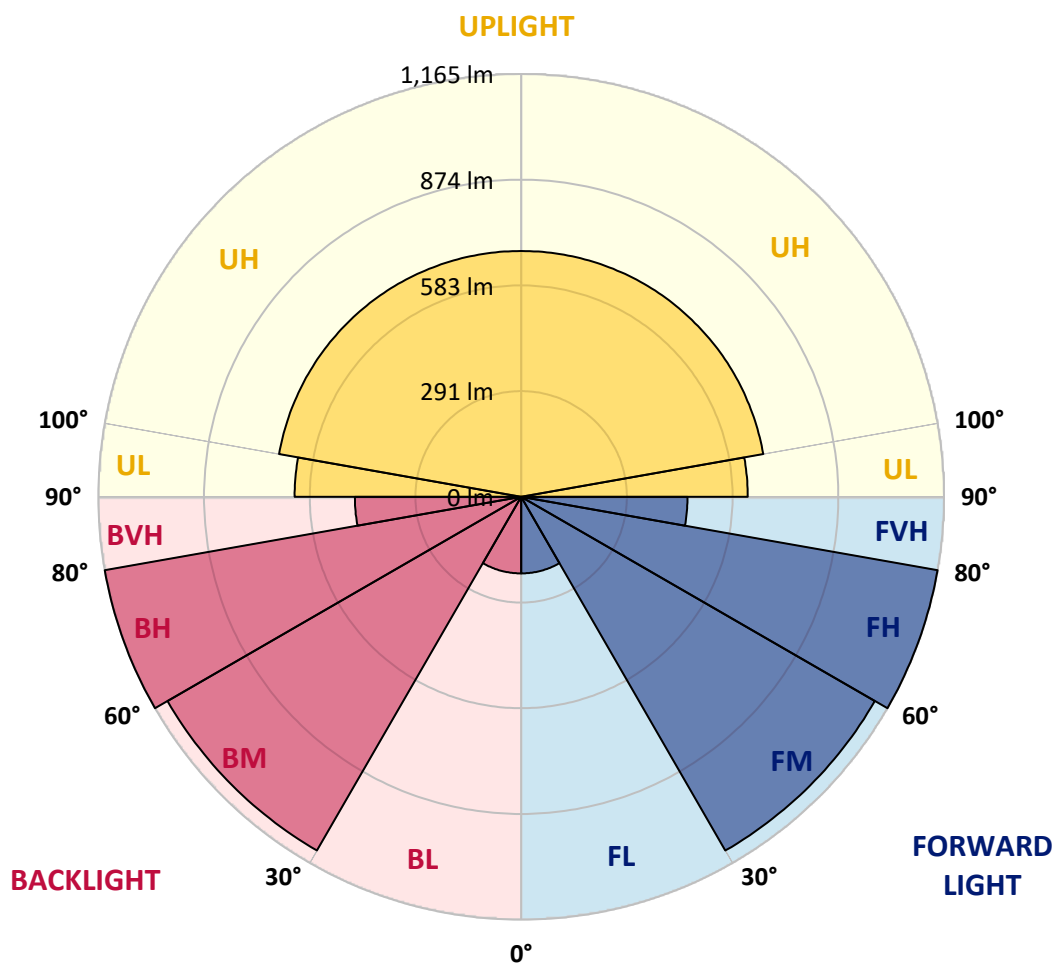
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.0	2.9			
FM	(30°-60°)	1125.3	15.5			
FH	(60°-80°)	1165.2	16.0			G1/1800
FVH	(80°-90°)	458.2	6.3			G3/500
BL	(0°-30°)	211.0	2.9	B1/500		
BM	(30°-60°)	1125.3	15.5	B2/2500		
BH	(60°-80°)	1165.2	16.0	B3/2500		G1/1800
BVH	(80°-90°)	458.2	6.3			G3/500
UL	(90°-100°)	624.3	8.6		U4/1000	
UH	(100°-180°)	677.4	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°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	346.8	346.8	345.9	345.9	345.9	345.9	345.9	346.8	345.9	346.8	346.8
5°	351.4	352.3	351.4	351.4	352.3	351.4	351.4	352.3	351.4	351.4	351.4
7.5°	362.3	362.3	361.4	361.4	361.4	360.5	360.5	361.4	360.5	360.5	360.5
10°	377.0	377.0	376.0	376.0	375.1	374.2	374.2	374.2	375.1	375.1	375.1
12.5°	396.1	397.0	394.2	394.2	393.3	392.4	392.4	392.4	392.4	393.3	392.4
15°	425.3	425.3	419.8	419.8	417.1	416.1	414.4	416.1	418.0	418.9	420.7
17.5°	460.9	459.1	453.6	453.6	448.2	442.6	445.4	448.2	450.8	451.7	451.7
20°	497.5	497.5	489.2	489.2	484.7	480.1	481.0	482.8	484.7	486.4	485.6
22.5°	534.8	536.6	529.4	529.4	525.7	524.8	520.3	520.3	521.1	522.9	522.9
25°	579.6	577.8	571.3	571.3	570.4	570.4	564.1	560.4	561.3	562.2	562.2
27.5°	625.2	623.4	616.0	616.0	616.9	615.1	610.6	604.2	601.5	604.2	602.4
30°	670.9	669.9	663.5	663.5	665.3	663.5	658.1	648.0	646.2	647.1	648.0
32.5°	719.2	720.2	714.6	714.6	715.6	711.0	706.4	699.1	692.7	695.5	695.5
35°	773.0	773.0	767.5	767.5	764.9	760.3	754.8	749.3	743.0	745.6	743.8
37.5°	827.8	826.9	821.4	821.4	815.9	806.8	804.0	801.4	794.0	795.9	796.8
40°	886.2	883.5	876.2	876.2	865.2	855.2	853.3	853.3	845.2	849.7	850.6
42.5°	942.8	941.0	930.9	930.9	914.5	902.7	899.9	906.3	900.8	903.6	903.6
45°	999.4	994.8	984.8	984.8	962.9	947.4	948.3	956.5	957.4	957.4	955.5
47.5°	1053.2	1052.3	1033.2	1033.2	1008.5	991.1	993.0	1005.8	1010.4	1009.4	1010.4
50°	1106.2	1103.5	1082.5	1082.5	1049.5	1029.5	1034.1	1050.5	1060.5	1057.8	1058.8
52.5°	1156.3	1151.8	1126.3	1126.3	1087.9	1065.1	1069.7	1093.4	1105.3	1104.4	1104.4
55°	1195.6	1193.8	1163.7	1163.7	1119.8	1095.2	1101.6	1128.1	1146.3	1142.6	1141.7
57.5°	1228.5	1226.6	1193.8	1193.8	1145.4	1117.2	1125.3	1158.2	1179.2	1173.7	1173.7
60°	1252.2	1250.4	1215.7	1215.7	1163.7	1132.6	1142.6	1177.3	1202.0	1195.6	1194.7
62.5°	1263.1	1262.2	1226.6	1226.6	1171.9	1140.0	1150.9	1188.4	1214.8	1206.6	1204.7
65°	1261.3	1262.2	1227.5	1227.5	1171.0	1138.1	1150.0	1188.4	1215.7	1206.6	1203.8
67.5°	1246.8	1249.4	1216.6	1216.6	1160.0	1128.1	1139.1	1177.3	1204.7	1194.7	1190.1
70°	1219.4	1222.1	1193.8	1193.8	1140.0	1108.0	1118.1	1155.4	1180.1	1168.2	1162.8
72.5°	1176.5	1182.8	1160.0	1160.0	1108.9	1078.8	1088.8	1123.5	1146.3	1130.8	1124.4
75°	1122.6	1131.7	1116.2	1116.2	1068.8	1041.4	1051.4	1082.5	1097.9	1083.3	1071.4
77.5°	1062.3	1071.4	1062.3	1062.3	1020.4	996.7	1003.0	1028.6	1042.3	1024.1	1014.9
80°	989.4	999.4	1002.1	1002.1	968.3	944.6	952.0	970.2	976.6	957.4	945.5
82.5°	917.3	926.4	936.4	936.4	908.1	888.9	892.6	906.3	909.0	886.2	876.2
85°	839.6	847.9	867.1	867.1	846.1	830.5	833.3	841.5	835.1	810.5	799.5
87.5°	762.1	766.7	793.1	793.1	782.1	771.2	770.3	770.3	761.2	736.5	728.3
90°	686.3	690.9	724.7	724.7	718.3	709.1	707.4	703.7	685.4	662.6	657.1
92.5°	613.4	615.1	656.2	656.2	654.4	648.0	645.3	638.0	616.9	590.5	586.9
95°	544.8	546.7	588.7	588.7	593.2	591.4	585.9	575.9	548.5	522.0	521.1
97.5°	481.9	481.0	526.6	526.6	535.7	535.7	527.5	513.8	487.3	460.9	460.0
100°	424.4	422.6	471.0	471.0	481.0	482.8	475.5	457.3	427.2	406.1	407.0
102.5°	372.4	370.5	415.3	415.3	429.8	433.5	425.3	403.5	375.1	356.0	356.9
105°	326.7	324.9	366.0	366.0	382.4	386.1	377.0	356.0	324.9	311.2	313.0
107.5°	283.9	282.9	319.5	319.5	337.7	343.2	334.0	311.2	282.0	272.0	272.9
110°	250.1	249.2	278.3	278.3	298.5	303.9	293.0	269.2	244.6	238.2	239.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	219.9	217.2	220.9	241.8	260.1	266.5	255.5	230.9	211.8	209.0	209.9
115°	191.7	191.7	190.8	207.1	226.4	231.8	220.9	199.0	183.4	182.5	182.5
117.5°	168.9	167.0	166.1	176.2	193.4	199.9	189.9	169.8	159.7	160.6	161.5
120°	146.9	146.9	144.2	148.7	164.3	168.9	160.6	145.2	138.7	140.6	141.5
122.5°	128.7	127.8	125.0	125.9	136.9	142.4	134.2	122.3	120.5	124.1	124.1
125°	111.3	110.5	107.7	105.9	111.3	115.9	110.5	103.1	104.0	107.7	108.6
127.5°	95.9	94.9	91.2	87.7	90.3	93.1	89.4	85.8	90.3	93.1	94.0
130°	82.1	81.2	77.5	72.1	71.2	73.0	70.3	71.2	76.6	81.2	81.2
132.5°	69.4	69.4	64.8	58.4	54.7	54.7	54.7	58.4	64.8	68.4	69.4
135°	57.5	57.5	53.8	46.5	40.2	39.3	40.2	46.5	53.8	56.6	57.5
137.5°	47.5	46.5	42.9	36.5	28.3	26.5	28.3	35.6	42.9	46.5	46.5
140°	37.4	36.5	32.8	27.4	20.0	16.5	20.0	26.5	32.8	36.5	36.5
142.5°	27.4	27.4	23.7	19.1	12.8	10.0	12.8	19.1	24.7	26.5	27.4
145°	19.1	19.1	16.5	11.9	7.3	5.5	7.3	12.8	16.5	19.1	19.1
147.5°	12.8	12.8	10.9	7.3	4.6	2.8	4.6	8.2	10.9	12.8	12.8
150°	7.3	7.3	6.3	4.6	1.8	0.9	1.8	4.6	6.3	7.3	7.3
152.5°	3.7	3.7	2.8	1.8	0.9	0.9	0.9	1.8	3.7	3.7	4.6
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.9	1.8	1.8	1.8
157.5°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)