

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: P240097

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240097
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 6877.9 lumens
Efficiency: N/A
Efficacy: 82.9 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



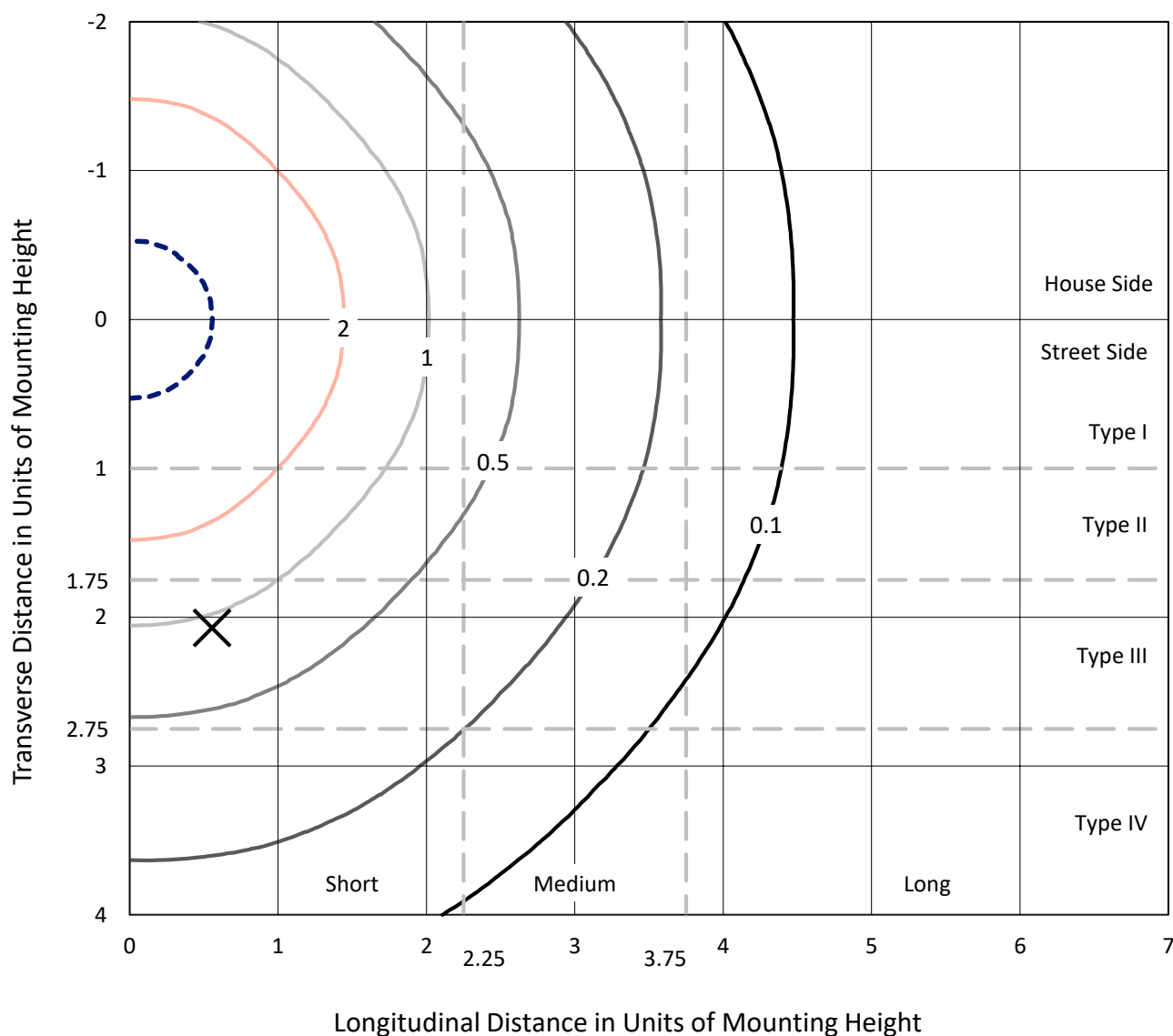
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

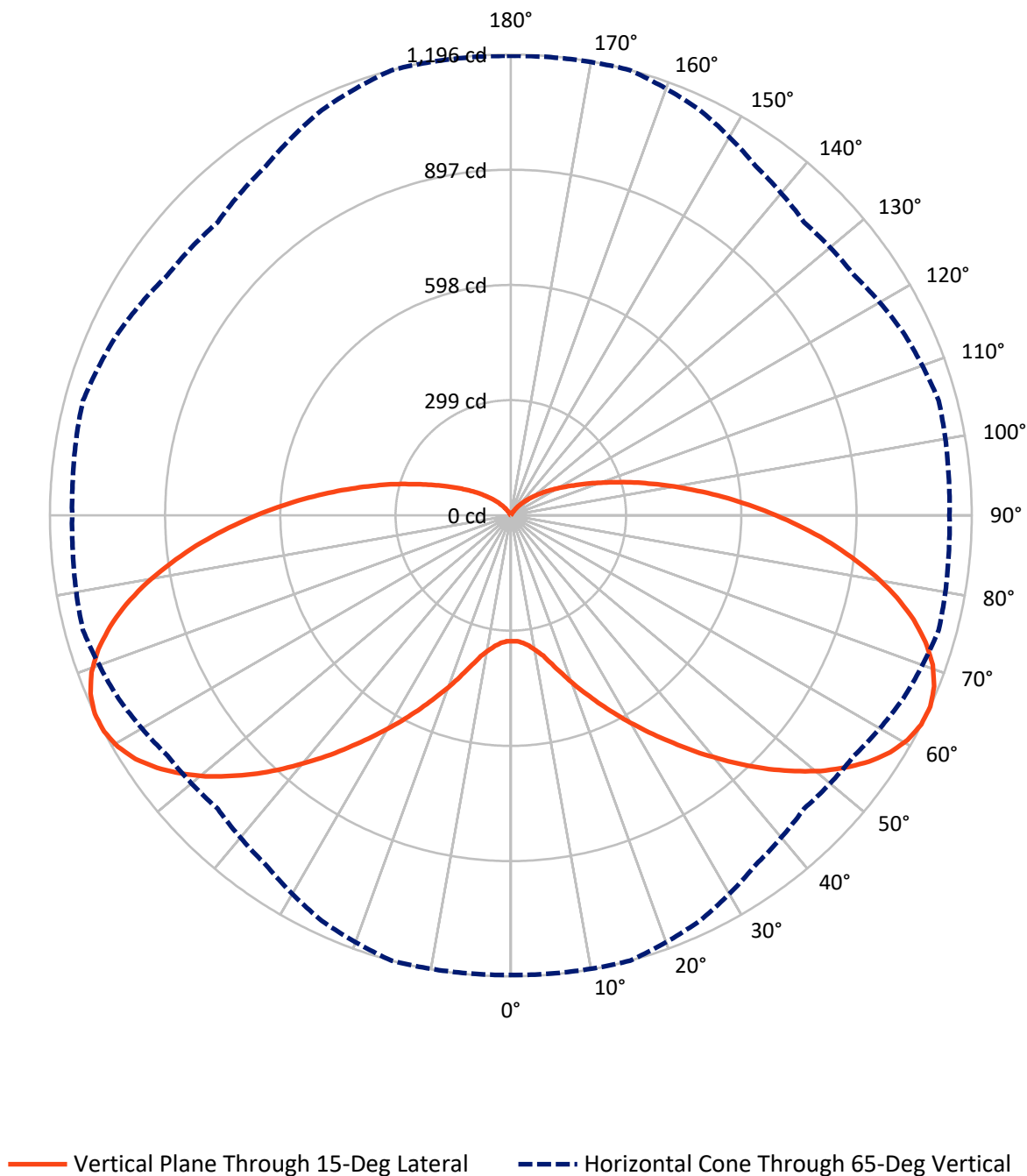


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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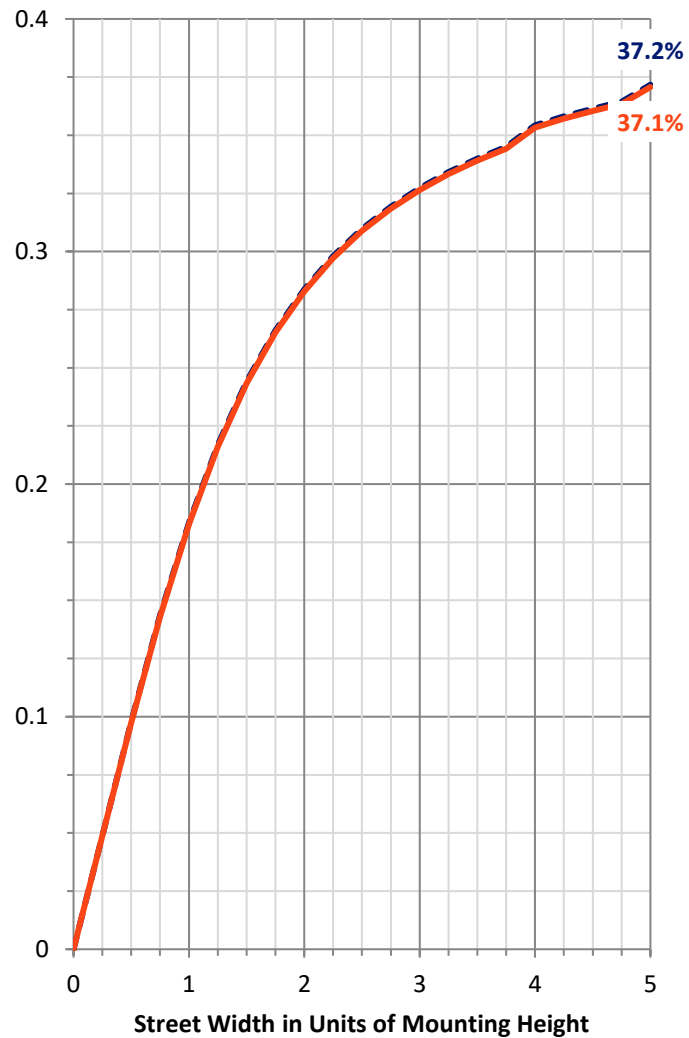
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2798.4	640.5	3438.9
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2798.4	640.5	3438.9
	% Fixture	40.7	9.3	50.0
Total	Lumens	5596.9	1281.0	6877.9
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	0.5
10°-20°	115.1	1.7
20°-30°	251.6	3.7
30°-40°	453.2	6.6
40°-50°	709.0	10.3
50°-60°	965.7	14.0
60°-70°	1120.7	16.3
70°-80°	1082.7	15.7
80°-90°	866.5	12.6
90°-100°	590.3	8.6
100°-110°	356.1	5.2
110°-120°	194.3	2.8
120°-130°	94.1	1.4
130°-140°	36.7	0.5
140°-150°	8.7	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5596.9	81.4
0°-180°	6877.9	100.0

Coefficient of Utilization



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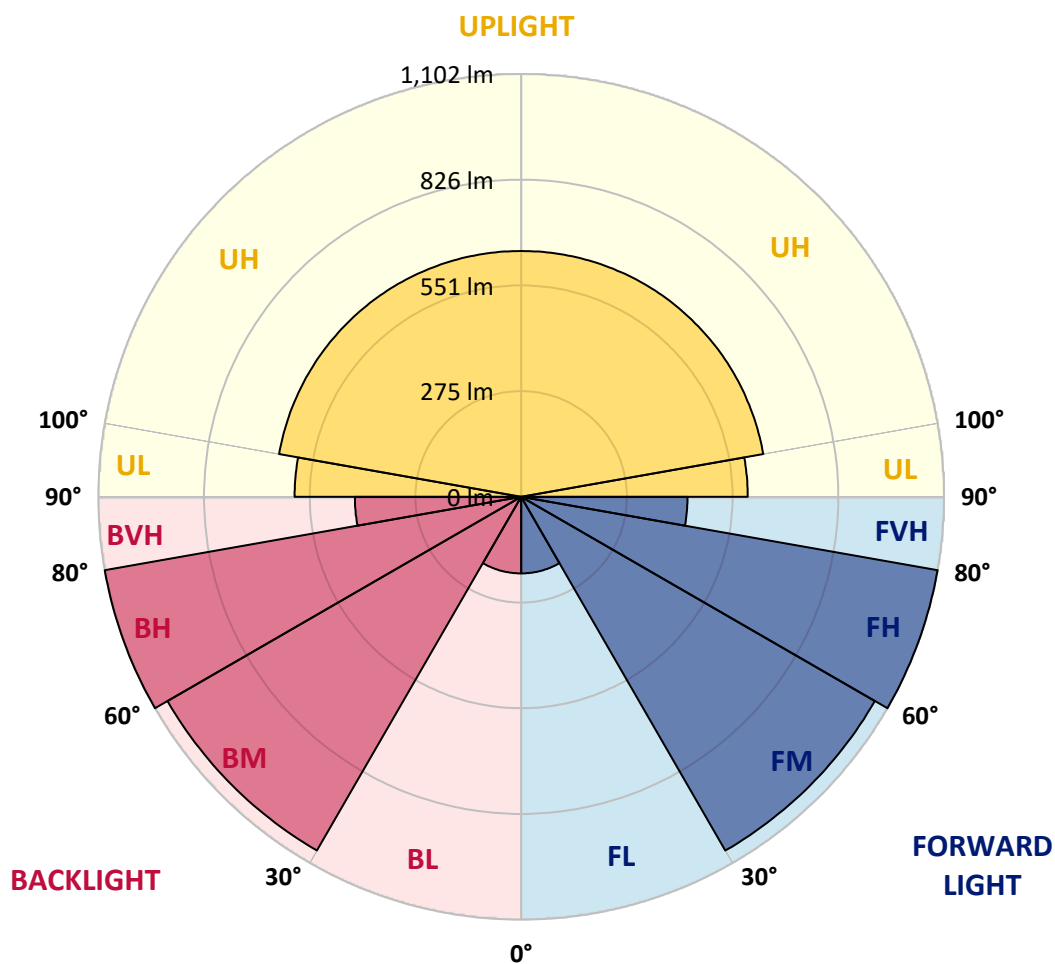
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.5	2.9			
FM	(30°-60°)	1064.0	15.5			
FH	(60°-80°)	1101.7	16.0			G1/1800
FVH	(80°-90°)	433.3	6.3			G3/500
BL	(0°-30°)	199.5	2.9	B1/500		
BM	(30°-60°)	1064.0	15.5	B2/2500		
BH	(60°-80°)	1101.7	16.0	B3/2500		G1/1800
BVH	(80°-90°)	433.3	6.3			G3/500
UL	(90°-100°)	590.3	8.6		U4/1000	
UH	(100°-180°)	640.5	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°	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2
2.5°	327.9	327.9	327.0	327.0	327.0	327.0	327.0	327.9	327.0	327.9	327.9
5°	332.2	333.1	332.2	332.2	333.1	332.2	332.2	333.1	332.2	332.2	332.2
7.5°	342.6	342.6	341.8	341.8	341.8	340.9	340.9	341.8	340.9	340.9	340.9
10°	356.4	356.4	355.5	355.5	354.6	353.8	353.8	353.8	354.6	354.6	354.6
12.5°	374.5	375.5	373.6	372.8	371.9	371.1	371.1	371.1	371.1	371.9	371.1
15°	402.2	402.2	400.4	396.9	394.3	393.6	391.8	393.6	395.2	396.1	397.8
17.5°	435.8	434.1	432.3	428.9	423.7	418.6	421.0	423.7	426.3	427.2	427.2
20°	470.4	470.4	467.7	462.5	458.3	453.9	454.7	456.4	458.3	460.0	459.1
22.5°	505.7	507.4	504.0	500.5	497.0	496.1	491.8	491.8	492.8	494.5	494.5
25°	547.9	546.3	543.7	540.2	539.3	539.3	533.3	529.9	530.7	531.5	531.5
27.5°	591.1	589.4	585.9	582.5	583.3	581.6	577.3	571.3	568.7	571.3	569.6
30°	634.2	633.3	630.0	627.3	629.2	627.3	622.2	612.7	611.0	611.9	612.7
32.5°	680.0	680.9	676.6	675.7	676.6	672.3	667.9	661.0	655.0	657.5	657.5
35°	731.0	731.0	724.9	725.7	723.2	718.8	713.7	708.4	702.4	705.0	703.3
37.5°	782.8	781.9	777.5	776.7	771.5	762.8	760.2	757.7	750.7	752.5	753.4
40°	837.9	835.3	829.3	828.4	818.2	808.6	806.9	806.9	799.1	803.4	804.2
42.5°	891.4	889.7	884.6	880.2	864.7	853.5	850.9	856.9	851.7	854.3	854.3
45°	945.0	940.6	938.9	931.1	910.4	895.7	896.6	904.3	905.2	905.2	903.5
47.5°	995.9	995.1	991.5	976.9	953.7	937.1	938.9	951.0	955.3	954.4	955.3
50°	1045.9	1043.3	1042.5	1023.4	992.4	973.4	977.8	993.2	1002.8	1000.2	1001.1
52.5°	1093.3	1089.1	1087.3	1064.8	1028.6	1007.1	1011.4	1033.8	1045.1	1044.2	1044.2
55°	1130.5	1128.7	1127.9	1100.2	1058.8	1035.6	1041.6	1066.6	1083.9	1080.5	1079.6
57.5°	1161.5	1159.8	1160.7	1128.7	1083.0	1056.2	1064.0	1095.1	1115.0	1109.7	1109.7
60°	1184.0	1182.3	1183.1	1149.4	1100.2	1071.0	1080.5	1113.3	1136.6	1130.5	1129.6
62.5°	1194.3	1193.4	1195.2	1159.8	1108.0	1077.9	1088.2	1123.6	1148.7	1140.7	1139.1
65°	1192.6	1193.4	1196.1	1160.7	1107.2	1076.1	1087.3	1123.6	1149.4	1140.7	1138.3
67.5°	1178.8	1181.4	1184.8	1150.3	1096.9	1066.6	1077.0	1113.3	1139.1	1129.6	1125.3
70°	1152.9	1155.5	1161.5	1128.7	1077.9	1047.6	1057.1	1092.5	1115.7	1104.6	1099.3
72.5°	1112.4	1118.4	1125.3	1096.9	1048.5	1020.1	1029.6	1062.3	1083.9	1069.2	1063.2
75°	1061.5	1070.0	1079.6	1055.5	1010.5	984.7	994.1	1023.4	1038.2	1024.3	1013.2
77.5°	1004.5	1013.2	1024.3	1004.5	964.8	942.4	948.4	972.5	985.5	968.2	959.7
80°	935.5	945.0	960.5	947.5	915.6	893.2	900.1	917.3	923.4	905.2	894.1
82.5°	867.3	875.9	890.6	885.4	858.7	840.5	843.9	856.9	859.6	837.9	828.4
85°	793.9	801.6	820.6	819.8	800.0	785.2	787.9	795.6	789.6	766.4	756.0
87.5°	720.6	724.9	746.5	749.9	739.5	729.2	728.3	728.3	719.7	696.4	688.7
90°	648.9	653.3	674.0	685.2	679.1	670.6	668.7	665.4	648.1	626.5	621.3
92.5°	579.9	581.6	605.0	620.5	618.7	612.7	610.1	603.2	583.3	558.4	554.9
95°	515.1	516.9	539.3	556.5	560.9	559.2	554.1	544.5	518.7	493.7	492.8
97.5°	455.6	454.7	476.4	497.9	506.5	506.5	498.8	485.8	460.8	435.8	435.0
100°	401.3	399.6	419.4	445.2	454.7	456.4	449.6	432.3	403.8	384.0	384.9
102.5°	352.1	350.4	367.6	392.7	406.5	409.9	402.2	381.5	354.6	336.5	337.4
105°	308.9	307.2	321.9	346.1	361.5	365.0	356.4	336.5	307.2	294.2	296.0
107.5°	268.3	267.4	277.8	302.0	319.2	324.5	315.9	294.2	266.7	257.2	258.1
110°	236.4	235.6	240.8	263.2	282.2	287.4	277.0	254.6	231.3	225.2	226.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	207.9	205.4	208.8	228.7	246.0	252.0	241.7	218.3	200.2	197.6	198.6
115°	181.3	181.3	180.4	195.9	214.0	219.2	208.8	188.2	173.5	172.6	172.6
117.5°	159.6	157.9	157.0	166.5	182.9	189.0	179.5	160.5	151.0	151.9	152.8
120°	139.0	139.0	136.3	140.6	155.3	159.6	151.9	137.2	131.2	132.9	133.8
122.5°	121.8	120.8	118.2	119.1	129.5	134.6	126.8	115.6	113.9	117.4	117.4
125°	105.3	104.5	101.8	100.1	105.3	109.6	104.5	97.6	98.4	101.8	102.7
127.5°	90.5	89.7	86.4	82.8	85.4	88.1	84.5	81.1	85.4	88.1	88.9
130°	77.7	76.8	73.3	68.2	67.3	69.1	66.4	67.3	72.4	76.8	76.8
132.5°	65.5	65.5	61.3	55.1	51.8	51.8	51.8	55.1	61.3	64.7	65.5
135°	54.4	54.4	51.0	44.0	38.0	37.1	38.0	44.0	51.0	53.5	54.4
137.5°	44.9	44.0	40.5	34.5	26.8	25.0	26.8	33.7	40.5	44.0	44.0
140°	35.4	34.5	31.0	25.9	19.0	15.6	19.0	25.0	31.0	34.5	34.5
142.5°	25.9	25.9	22.4	18.1	12.1	9.5	12.1	18.1	23.3	25.0	25.9
145°	18.1	18.1	15.6	11.3	6.9	5.1	6.9	12.1	15.6	18.1	18.1
147.5°	12.1	12.1	10.4	6.9	4.3	2.6	4.3	7.7	10.4	12.1	12.1
150°	6.9	6.9	6.0	4.3	1.7	0.9	1.7	4.3	6.0	6.9	6.9
152.5°	3.5	3.5	2.6	1.7	0.9	0.9	0.9	1.7	3.5	3.5	4.3
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	1.7
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)