

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: P239833

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4869 lumens
Efficiency: N/A
Efficacy: 90.2 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: B2 - U3 - G2

Input Watts (W): 54
Input Voltage (V): NR
Input Current (A_{in}): 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

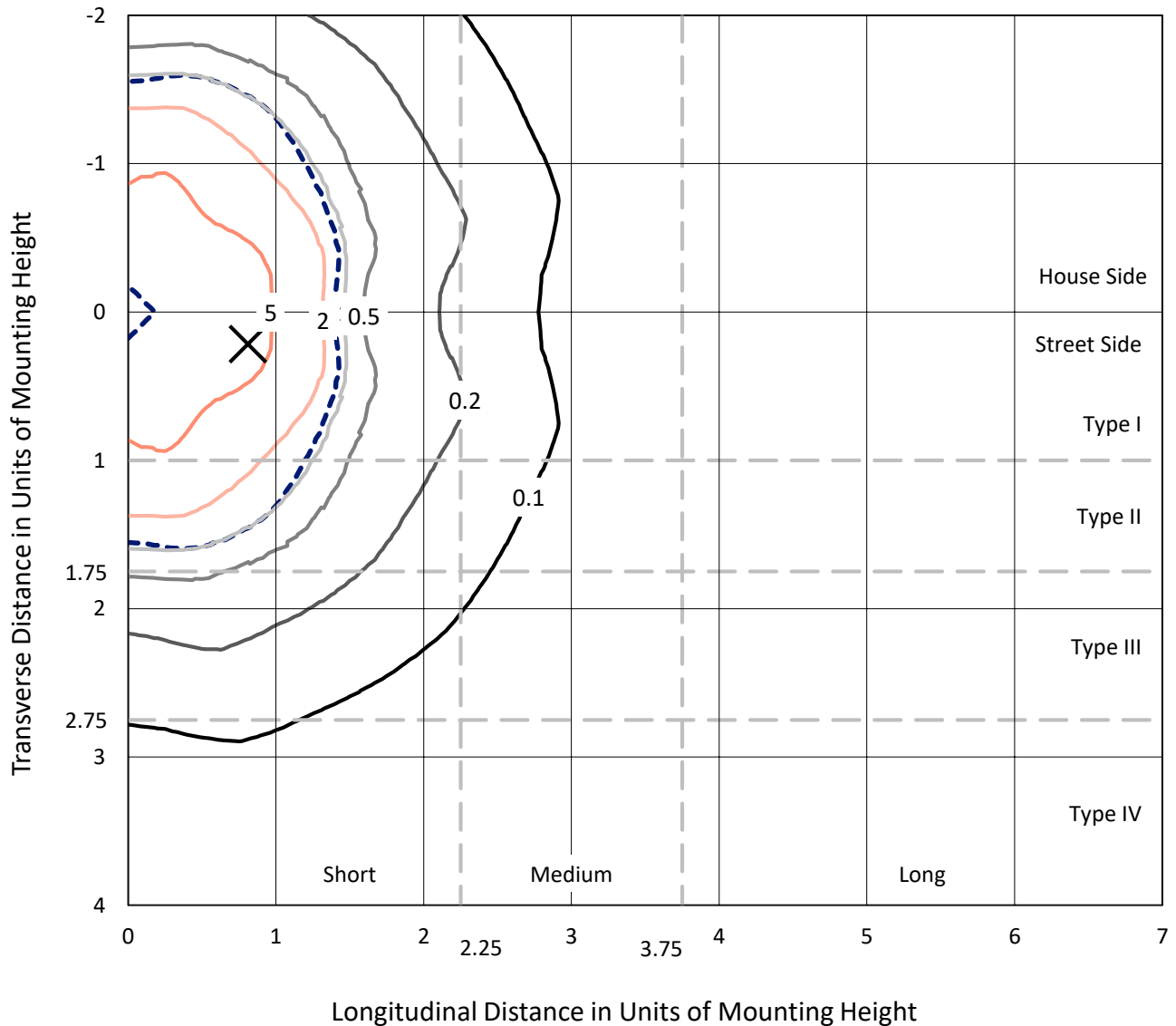


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

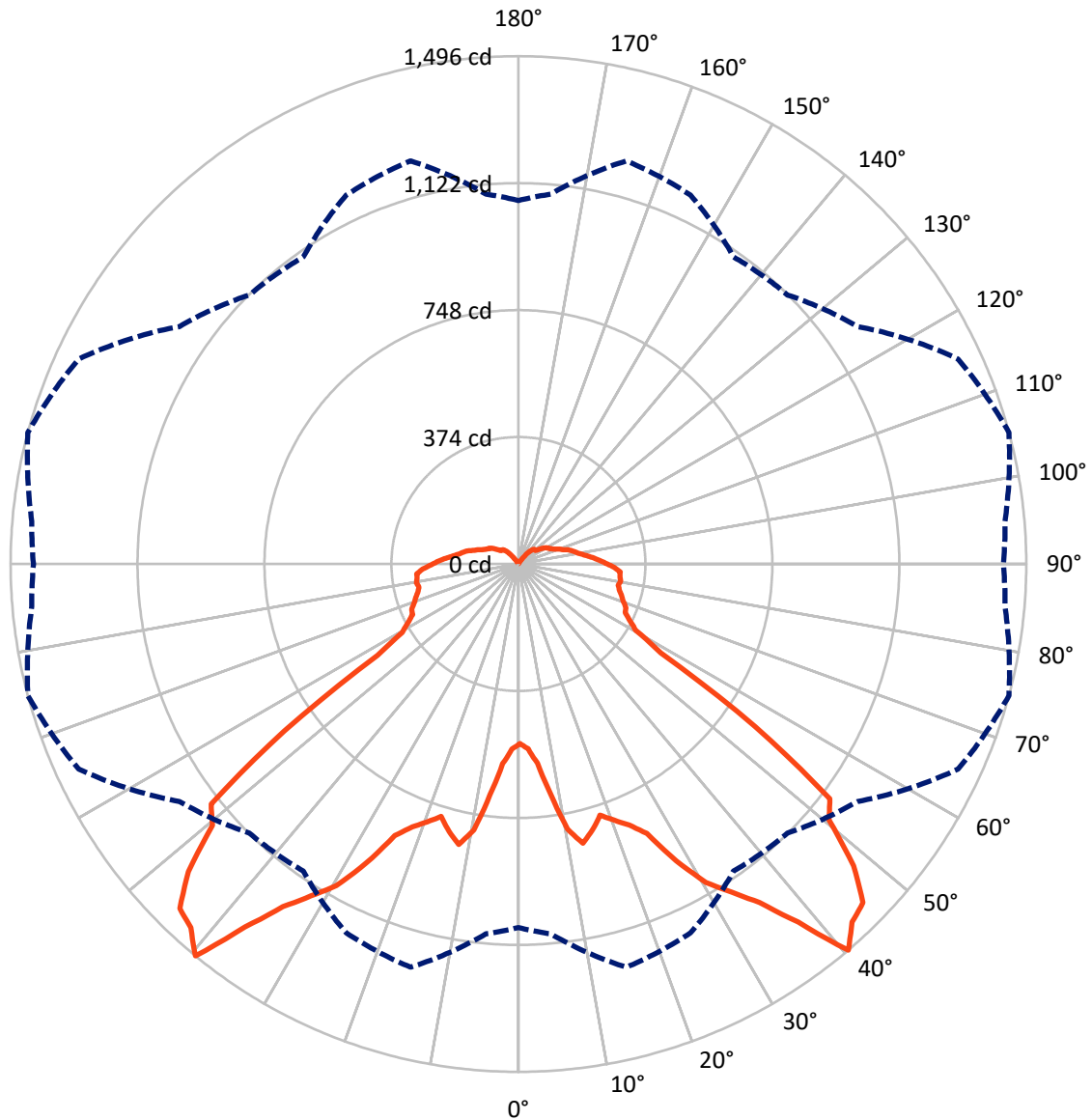


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

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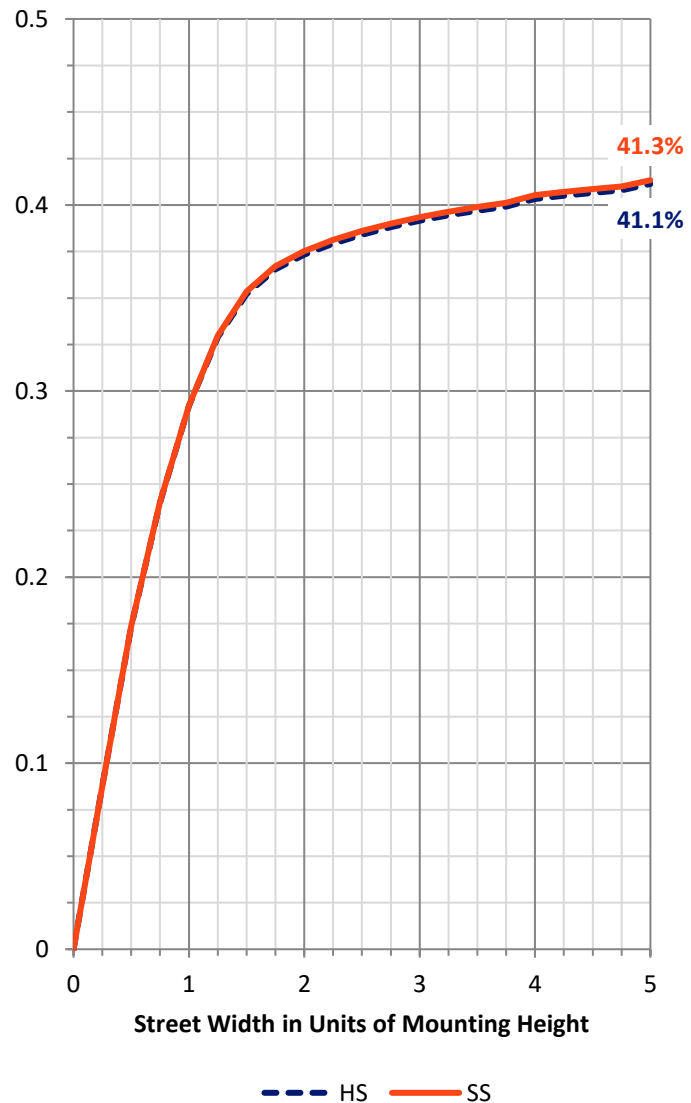
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.7	329.8	2434.5
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2104.7	329.8	2434.5
	% Fixture	43.2	6.8	50.0
Total	Lumens	4209.3	659.7	4869.0
	% Fixture	86.5	13.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.3
10°-20°	253.6	5.2
20°-30°	453.0	9.3
30°-40°	717.2	14.7
40°-50°	962.3	19.8
50°-60°	765.9	15.7
60°-70°	351.5	7.2
70°-80°	320.5	6.6
80°-90°	322.8	6.6
90°-100°	248.2	5.1
100°-110°	173.3	3.6
110°-120°	114.5	2.4
120°-130°	71.6	1.5
130°-140°	41.9	0.9
140°-150°	9.5	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4209.3	86.5
0°-180°	4869.0	100.0



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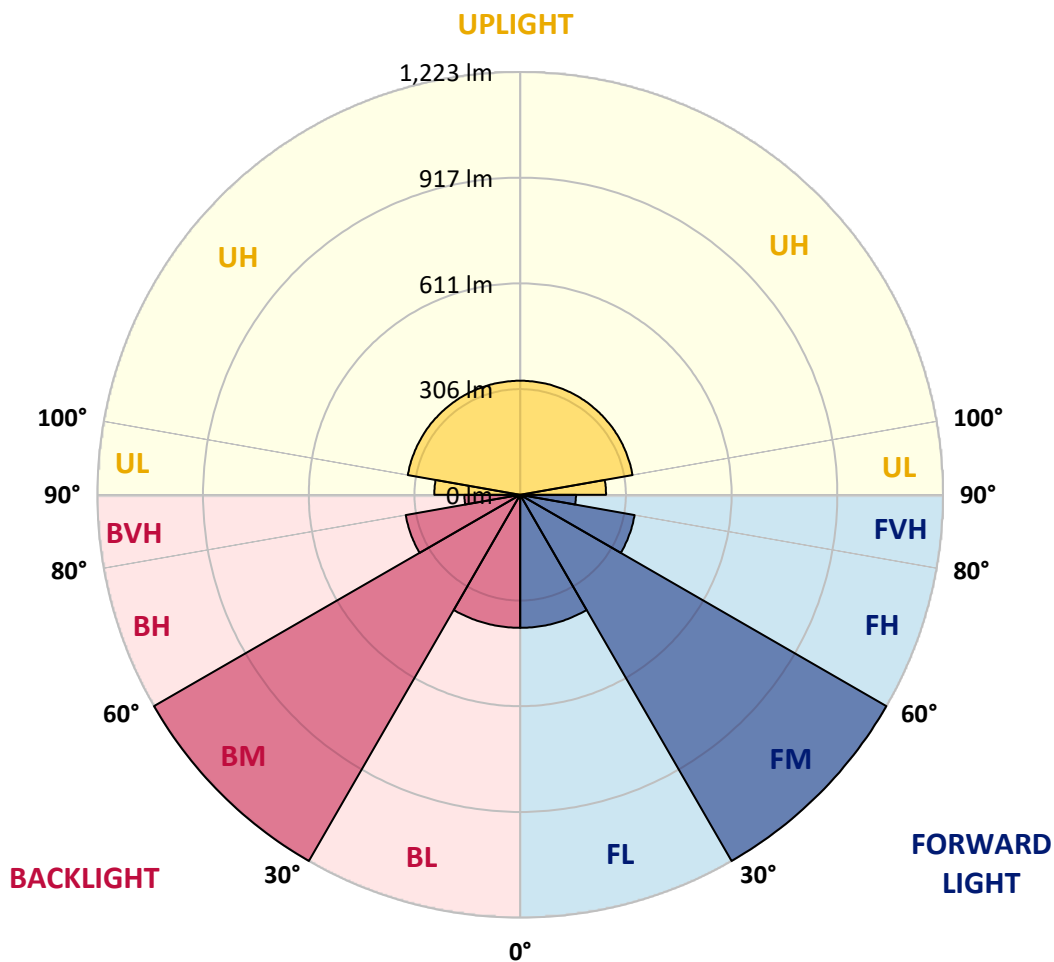
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.5	7.9			
FM (30°-60°)	1222.7	25.1			
FH (60°-80°)	336.0	6.9			G0/660
FVH (80°-90°)	161.4	3.3			G2/225
BL (0°-30°)	384.5	7.9	B1/500		
BM (30°-60°)	1222.7	25.1	B2/2500		
BH (60°-80°)	336.0	6.9	B1/500		G0/660
BVH (80°-90°)	161.4	3.3			G2/225
UL (90°-100°)	248.2	5.1		U3/500	
UH (100°-180°)	329.8	6.8		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1
2.5°	543.3	543.3	543.3	542.0	543.3	544.6	545.9	545.9	545.3	543.3	542.0
5°	581.6	581.6	580.9	582.2	582.2	579.6	580.9	585.5	590.0	586.8	585.5
7.5°	674.3	672.4	667.8	663.9	659.4	659.4	669.1	674.9	685.3	686.6	683.4
10°	767.7	770.3	772.8	772.8	783.9	796.2	804.6	802.0	794.2	788.4	784.5
12.5°	794.9	796.8	819.5	876.6	918.7	953.1	923.9	879.8	844.8	822.1	819.5
15°	815.6	820.8	849.4	920.7	1026.4	1054.9	994.6	882.4	814.3	781.9	774.8
17.5°	836.4	842.2	890.2	993.3	1076.9	1069.8	997.2	877.2	778.0	735.2	730.1
20°	818.2	824.7	892.1	1030.2	1091.2	1056.8	1031.5	918.7	805.9	756.6	750.8
22.5°	825.4	831.8	899.9	1034.1	1071.7	1073.7	1034.8	967.4	835.1	778.7	769.6
25°	838.3	843.5	927.8	1063.3	1064.0	1058.8	1039.3	1002.4	879.2	825.4	817.6
27.5°	838.3	842.9	937.5	1051.0	1058.1	1046.5	1071.1	1084.7	990.1	942.1	944.0
30°	875.9	878.5	976.4	1049.7	1033.5	1042.6	1111.9	1153.4	1088.6	1011.4	1010.8
32.5°	949.2	961.5	1064.6	1094.4	1030.9	1039.3	1122.3	1194.9	1152.8	1060.1	1049.7
35°	1043.2	1046.5	1141.1	1133.3	1049.7	1045.2	1147.0	1260.4	1224.8	1133.3	1130.1
37.5°	1073.7	1078.2	1191.0	1170.3	1072.4	1076.3	1187.8	1340.2	1338.9	1265.6	1242.3
40°	1071.1	1093.8	1229.9	1199.5	1104.8	1121.0	1219.6	1429.6	1496.4	1439.4	1429.0
42.5°	1264.3	1276.0	1355.7	1245.5	1134.6	1134.6	1232.5	1412.1	1442.0	1333.0	1311.6
45°	1284.4	1283.8	1371.3	1283.1	1142.4	1115.8	1186.5	1345.4	1423.2	1351.2	1319.4
47.5°	1242.9	1259.1	1368.0	1261.7	1128.2	1062.7	1107.4	1268.8	1329.1	1218.3	1193.0
50°	1198.2	1210.5	1293.5	1163.8	1057.5	1010.8	1044.5	1161.2	1185.2	1051.6	1032.2
52.5°	1075.6	1076.9	1175.5	1073.0	995.9	947.9	975.1	1083.4	1148.9	1021.2	1007.6
55°	911.6	929.1	1054.2	990.7	923.3	881.8	887.0	905.1	847.4	656.1	611.4
57.5°	697.0	719.7	865.6	868.8	816.9	750.8	678.2	574.4	494.7	317.7	305.4
60°	474.6	494.1	604.3	631.5	652.3	576.4	469.4	409.8	397.4	275.6	266.5
62.5°	293.7	309.9	413.0	422.7	468.1	420.8	372.2	354.0	368.3	263.2	256.8
65°	271.7	282.7	358.5	344.3	355.3	352.7	331.3	328.1	345.6	256.8	252.2
67.5°	262.6	271.7	332.0	321.6	326.1	330.0	315.1	317.7	341.7	261.9	256.8
70°	258.0	267.8	323.5	316.4	320.9	324.8	315.8	311.9	327.4	263.9	256.8
72.5°	254.8	265.2	310.6	306.0	318.3	328.7	319.6	311.2	317.7	265.2	258.0
75°	249.0	259.3	298.9	301.5	320.3	332.6	320.9	308.0	307.3	262.6	254.2
77.5°	247.7	259.3	286.6	302.8	320.9	337.1	328.1	309.3	300.8	263.9	253.5
80°	245.7	258.7	292.4	313.2	326.1	334.6	330.7	317.7	305.4	273.6	262.6
82.5°	256.8	268.4	297.6	320.9	324.8	323.5	323.5	315.1	301.5	274.3	263.9
85°	270.4	279.4	309.9	323.5	320.3	311.9	308.0	307.3	300.8	281.4	273.0
87.5°	267.8	274.3	295.0	308.0	309.3	292.4	293.1	289.2	282.0	262.6	255.5
90°	250.3	254.8	278.1	291.8	283.3	269.7	263.9	256.1	256.8	239.2	234.1
92.5°	238.6	243.8	260.6	268.4	267.1	244.4	240.5	239.9	236.0	221.1	217.8
95°	223.0	226.3	240.5	250.9	244.4	221.1	217.2	214.0	214.6	208.8	209.4
97.5°	219.1	221.7	232.1	230.2	219.1	199.0	196.5	195.2	194.5	191.3	190.6
100°	210.7	210.7	214.0	208.1	195.2	180.2	176.4	177.0	177.7	173.8	172.5
102.5°	196.5	197.1	198.4	193.2	180.9	165.3	161.4	164.7	166.0	164.7	164.0
105°	186.1	185.4	186.1	180.2	166.6	153.0	148.5	151.7	155.0	155.6	154.3
107.5°	170.5	169.9	169.9	164.0	153.7	142.6	138.7	136.8	136.8	136.8	136.8
110°	147.8	148.5	148.5	145.9	140.7	134.2	129.0	125.1	126.4	125.8	127.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	137.5	137.5	136.2	134.2	129.0	122.5	116.7	114.1	112.8	112.2	112.8
115°	126.4	127.1	123.2	121.9	116.7	112.8	107.0	105.0	105.0	107.0	108.3
117.5°	116.7	116.7	114.1	110.9	106.3	103.1	100.5	99.2	99.2	101.8	101.8
120°	105.7	105.7	103.1	99.2	97.3	92.7	93.4	92.7	94.7	97.9	98.6
122.5°	93.4	93.4	90.8	87.5	88.8	85.6	84.3	81.7	85.6	89.5	90.1
125°	83.0	82.3	79.7	75.9	81.0	81.0	77.8	69.4	74.6	77.8	78.5
127.5°	75.9	75.2	72.0	68.1	74.6	78.5	71.3	62.9	65.5	68.7	70.0
130°	72.0	71.3	68.1	63.5	65.5	74.6	64.2	60.3	63.5	66.8	66.8
132.5°	69.4	68.7	66.1	61.6	58.4	68.1	57.7	59.0	63.5	66.8	66.8
135°	64.2	64.2	60.9	54.5	46.7	49.9	46.7	53.2	58.4	60.9	61.6
137.5°	55.1	55.1	52.5	46.7	37.6	35.7	37.0	45.4	51.2	53.8	53.8
140°	43.4	42.8	40.2	35.0	24.6	16.9	24.0	34.4	40.2	42.8	42.8
142.5°	30.5	29.8	26.6	21.4	13.0	5.8	13.0	20.7	26.6	29.2	29.8
145°	19.5	19.5	16.9	13.0	6.5	1.9	5.2	12.3	16.2	18.8	18.8
147.5°	12.3	12.3	10.4	7.1	1.9	1.3	1.9	5.8	9.7	11.7	12.3
150°	7.1	7.1	5.2	2.6	1.3	0.6	1.3	1.9	3.9	5.8	5.8
152.5°	2.6	1.9	1.3	1.3	0.6	0.6	0.6	1.3	1.3	1.9	1.9
155°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
162.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.6	0.6	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)