

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: P239827

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239827
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-AF24-80-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6134 lumens
Efficiency: N/A
Efficacy: 73.9 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: B2 - U4 - G2

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

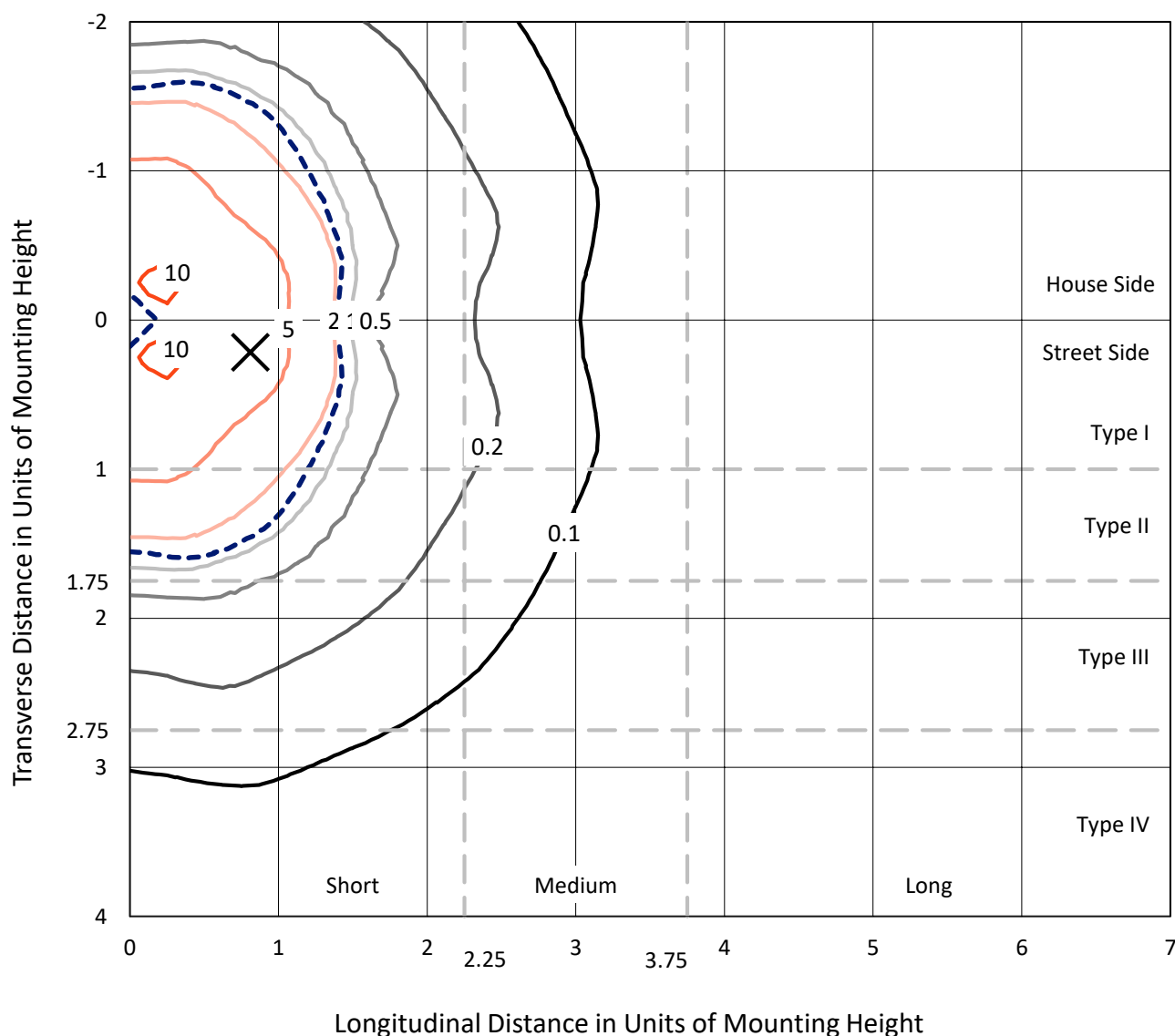


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

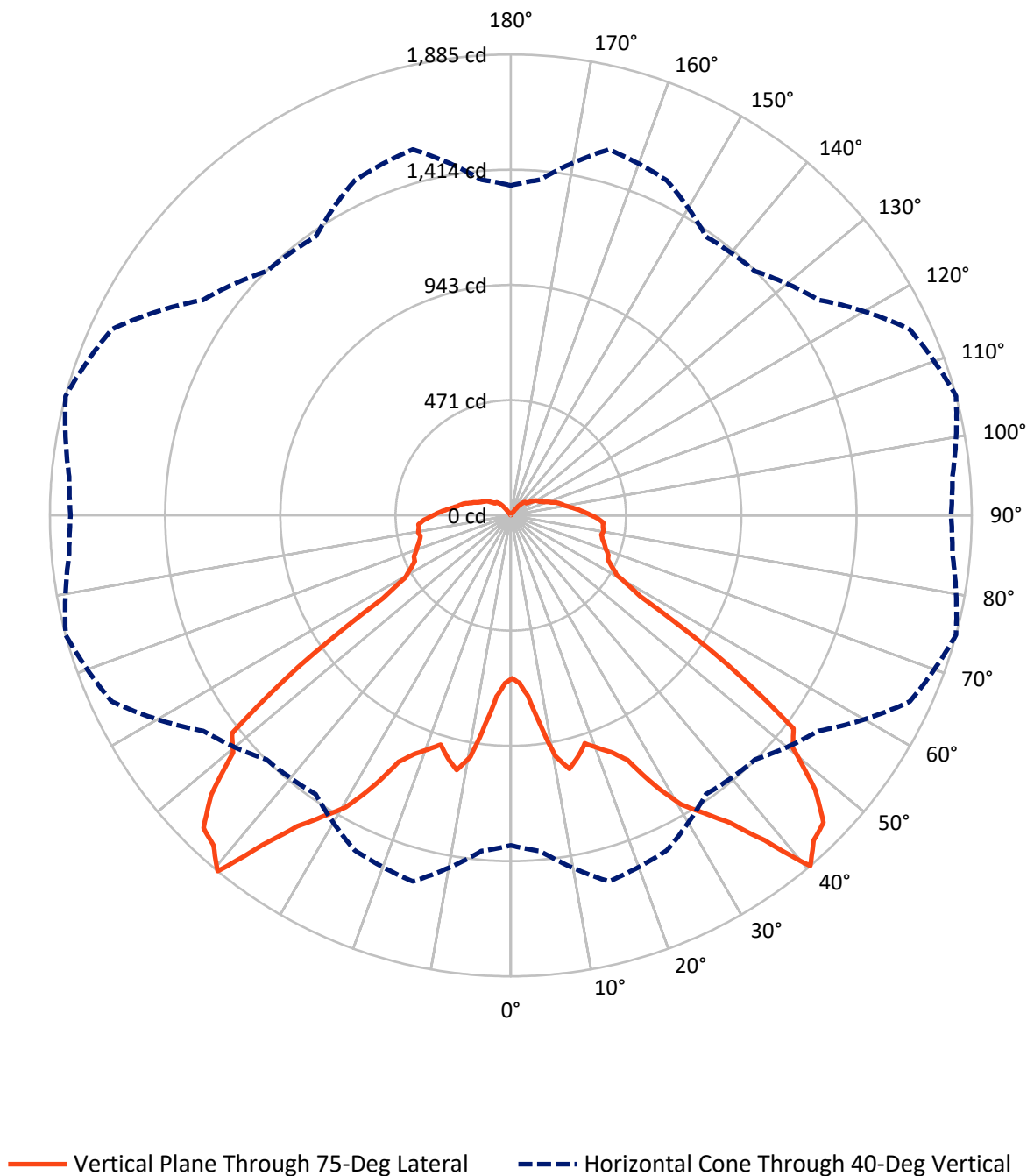


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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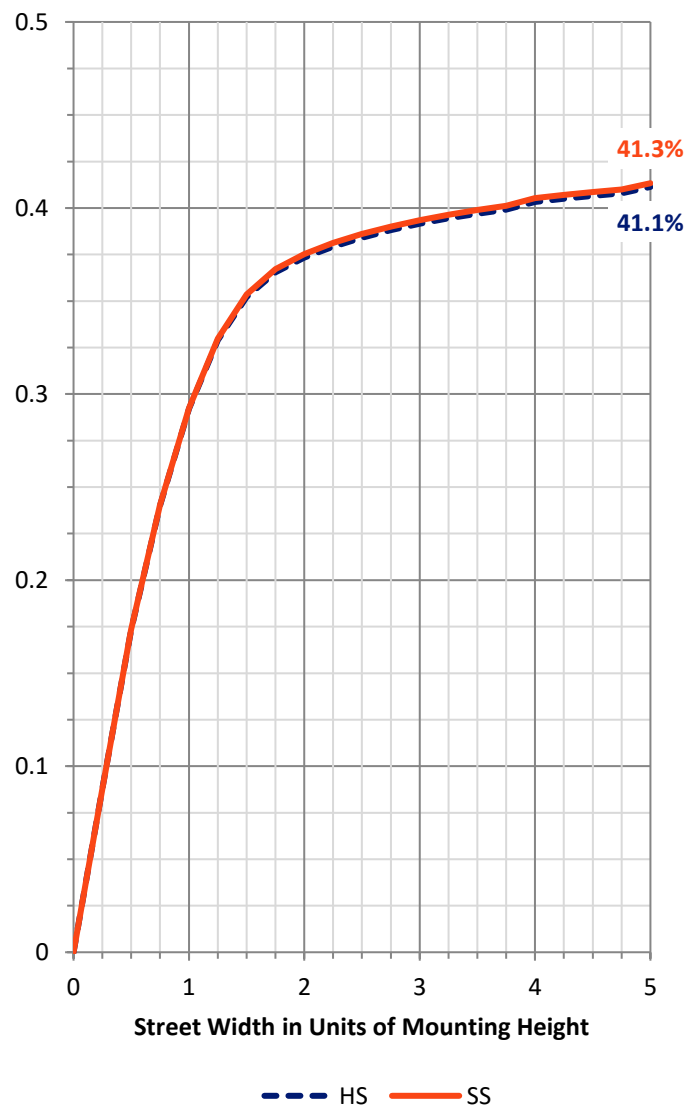
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2651.5	415.5	3067.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2651.5	415.5	3067.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	5302.9	831.1	6134.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.3
10°-20°	319.5	5.2
20°-30°	570.7	9.3
30°-40°	903.5	14.7
40°-50°	1212.3	19.8
50°-60°	964.9	15.7
60°-70°	442.9	7.2
70°-80°	403.7	6.6
80°-90°	406.7	6.6
90°-100°	312.7	5.1
100°-110°	218.4	3.6
110°-120°	144.2	2.4
120°-130°	90.2	1.5
130°-140°	52.8	0.9
140°-150°	12.0	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5302.9	86.5
0°-180°	6134.0	100.0

Coefficient of Utilization



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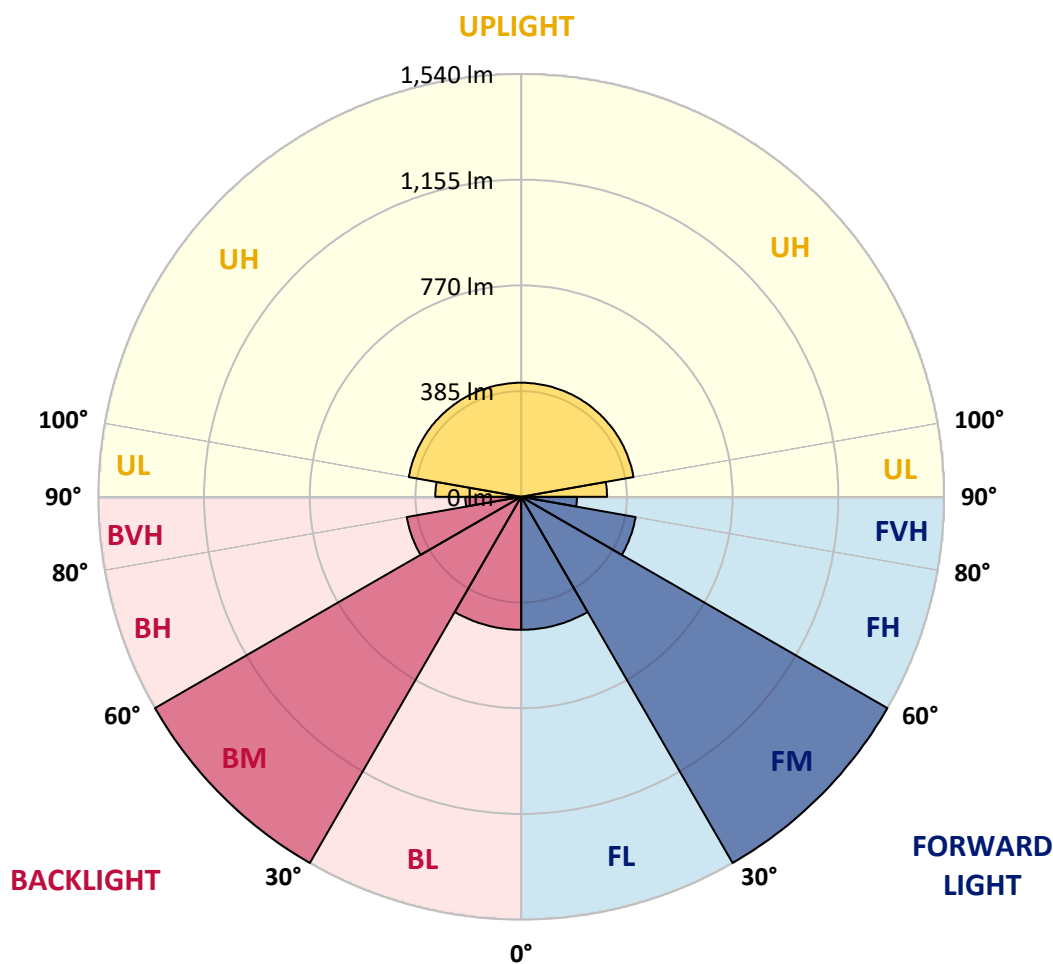
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.4	7.9			
FM	(30°-60°)	1540.4	25.1			
FH	(60°-80°)	423.3	6.9			G0/660
FVH	(80°-90°)	203.4	3.3			G2/225
BL	(0°-30°)	484.4	7.9	B1/500		
BM	(30°-60°)	1540.4	25.1	B2/2500		
BH	(60°-80°)	423.3	6.9	B1/500		G0/660
BVH	(80°-90°)	203.4	3.3			G2/225
UL	(90°-100°)	312.7	5.1		U3/500	
UH	(100°-180°)	415.5	6.8		U3/500	

BUG Rating: B2-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5
2.5°	684.5	684.5	684.5	682.9	684.5	686.1	687.8	687.8	686.9	684.5	682.9
5°	732.7	732.7	731.9	733.5	733.5	730.2	731.9	737.6	743.3	739.2	737.6
7.5°	849.5	847.0	841.3	836.4	830.7	830.7	843.0	850.3	863.4	865.0	860.9
10°	967.1	970.4	973.6	973.6	987.5	1003.0	1013.7	1010.4	1000.6	993.2	988.3
12.5°	1001.4	1003.9	1032.5	1104.3	1157.4	1200.7	1164.0	1108.4	1064.3	1035.7	1032.5
15°	1027.5	1034.1	1070.0	1159.9	1293.0	1329.0	1253.0	1111.7	1025.9	985.1	976.1
17.5°	1053.7	1061.0	1121.5	1251.4	1356.7	1347.7	1256.3	1105.1	980.2	926.3	919.7
20°	1030.8	1039.0	1123.9	1297.9	1374.7	1331.4	1299.5	1157.4	1015.3	953.2	945.9
22.5°	1039.8	1048.0	1133.7	1302.8	1350.2	1352.6	1303.6	1218.7	1052.1	981.0	969.6
25°	1056.1	1062.7	1168.9	1339.6	1340.4	1333.9	1309.3	1262.8	1107.6	1039.8	1030.0
27.5°	1056.1	1061.9	1181.1	1324.1	1333.0	1318.3	1349.4	1366.5	1247.3	1186.8	1189.3
30°	1103.5	1106.8	1230.1	1322.4	1302.0	1313.4	1400.8	1453.1	1371.4	1274.2	1273.4
32.5°	1195.8	1211.3	1341.2	1378.8	1298.7	1309.3	1413.9	1505.4	1452.3	1335.5	1322.4
35°	1314.3	1318.3	1437.6	1427.8	1322.4	1316.7	1444.9	1587.9	1543.0	1427.8	1423.7
37.5°	1352.6	1358.4	1500.5	1474.3	1351.0	1355.9	1496.4	1688.4	1686.7	1594.4	1565.0
40°	1349.4	1378.0	1549.5	1511.1	1391.8	1412.3	1536.4	1801.1	1885.2	1813.3	1800.3
42.5°	1592.8	1607.5	1708.0	1569.1	1429.4	1429.4	1552.8	1779.0	1816.6	1679.4	1652.4
45°	1618.1	1617.3	1727.6	1616.5	1439.2	1405.7	1494.8	1694.9	1792.9	1702.2	1662.2
47.5°	1565.8	1586.2	1723.5	1589.5	1421.3	1338.8	1395.1	1598.5	1674.5	1534.8	1502.9
50°	1509.5	1525.0	1629.5	1466.2	1332.2	1273.4	1315.9	1462.9	1493.1	1324.9	1300.4
52.5°	1355.1	1356.7	1480.9	1351.8	1254.6	1194.2	1228.5	1364.9	1447.4	1286.5	1269.3
55°	1148.4	1170.5	1328.1	1248.1	1163.1	1110.9	1117.4	1140.3	1067.6	826.6	770.3
57.5°	878.1	906.7	1090.4	1094.5	1029.2	945.9	854.4	723.7	623.2	400.2	384.7
60°	597.9	622.4	761.3	795.6	821.7	726.1	591.4	516.2	500.7	347.1	335.7
62.5°	370.0	390.4	520.3	532.6	589.7	530.1	468.9	446.0	463.9	331.6	323.5
65°	342.2	356.1	451.7	433.7	447.6	444.3	417.4	413.3	435.4	323.5	317.7
67.5°	330.8	342.2	418.2	405.1	410.9	415.8	397.0	400.2	430.5	330.0	323.5
70°	325.1	337.3	407.6	398.6	404.3	409.2	397.8	392.9	412.5	332.4	323.5
72.5°	321.0	334.1	391.3	385.5	401.1	414.1	402.7	392.1	400.2	334.1	325.1
75°	313.7	326.7	376.6	379.8	403.5	419.0	404.3	388.0	387.2	330.8	320.2
77.5°	312.0	326.7	361.0	381.5	404.3	424.7	413.3	389.6	379.0	332.4	319.4
80°	309.6	325.9	368.4	394.5	410.9	421.5	416.6	400.2	384.7	344.7	330.8
82.5°	323.5	338.2	374.9	404.3	409.2	407.6	407.6	397.0	379.8	345.5	332.4
85°	340.6	352.0	390.4	407.6	403.5	392.9	388.0	387.2	379.0	354.5	343.9
87.5°	337.3	345.5	371.6	388.0	389.6	368.4	369.2	364.3	355.3	330.8	321.8
90°	315.3	321.0	350.4	367.6	356.9	339.8	332.4	322.6	323.5	301.4	294.9
92.5°	300.6	307.1	328.4	338.2	336.5	307.9	303.0	302.2	297.3	278.5	274.4
95°	281.0	285.1	303.0	316.1	307.9	278.5	273.6	269.5	270.4	263.0	263.8
97.5°	276.1	279.3	292.4	290.0	276.1	250.8	247.5	245.9	245.0	241.0	240.1
100°	265.5	265.5	269.5	262.2	245.9	227.1	222.2	223.0	223.8	218.9	217.3
102.5°	247.5	248.3	249.9	243.4	227.9	208.3	203.4	207.5	209.1	207.5	206.7
105°	234.4	233.6	234.4	227.1	209.9	192.8	187.0	191.1	195.2	196.0	194.4
107.5°	214.8	214.0	214.0	206.7	193.6	179.7	174.8	172.3	172.3	172.3	172.3
110°	186.2	187.0	187.0	183.8	177.2	169.1	162.5	157.6	159.3	158.5	160.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	173.2	173.2	171.5	169.1	162.5	154.4	147.0	143.8	142.1	141.3	142.1
115°	159.3	160.1	155.2	153.6	147.0	142.1	134.8	132.3	132.3	134.8	136.4
117.5°	147.0	147.0	143.8	139.7	134.0	129.9	126.6	125.0	125.0	128.2	128.2
120°	133.1	133.1	129.9	125.0	122.5	116.8	117.6	116.8	119.3	123.3	124.2
122.5°	117.6	117.6	114.4	110.3	111.9	107.8	106.2	102.9	107.8	112.7	113.5
125°	104.6	103.7	100.5	95.6	102.1	102.1	98.0	87.4	93.9	98.0	98.8
127.5°	95.6	94.8	90.7	85.8	93.9	98.8	89.8	79.2	82.5	86.6	88.2
130°	90.7	89.8	85.8	80.0	82.5	93.9	80.9	76.0	80.0	84.1	84.1
132.5°	87.4	86.6	83.3	77.6	73.5	85.8	72.7	74.3	80.0	84.1	84.1
135°	80.9	80.9	76.8	68.6	58.8	62.9	58.8	67.0	73.5	76.8	77.6
137.5°	69.4	69.4	66.2	58.8	47.4	44.9	46.6	57.2	64.5	67.8	67.8
140°	54.7	53.9	50.6	44.1	31.0	21.2	30.2	43.3	50.6	53.9	53.9
142.5°	38.4	37.6	33.5	27.0	16.3	7.4	16.3	26.1	33.5	36.8	37.6
145°	24.5	24.5	21.2	16.3	8.2	2.5	6.5	15.5	20.4	23.7	23.7
147.5°	15.5	15.5	13.1	9.0	2.5	1.6	2.5	7.4	12.3	14.7	15.5
150°	9.0	9.0	6.5	3.3	1.6	0.8	1.6	2.5	4.9	7.4	7.4
152.5°	3.3	2.5	1.6	1.6	0.8	0.8	0.8	1.6	1.6	2.5	2.5
155°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	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)