

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: P266460

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
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-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 6020.4 lumens
Efficiency: N/A
Efficacy: 72.5 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

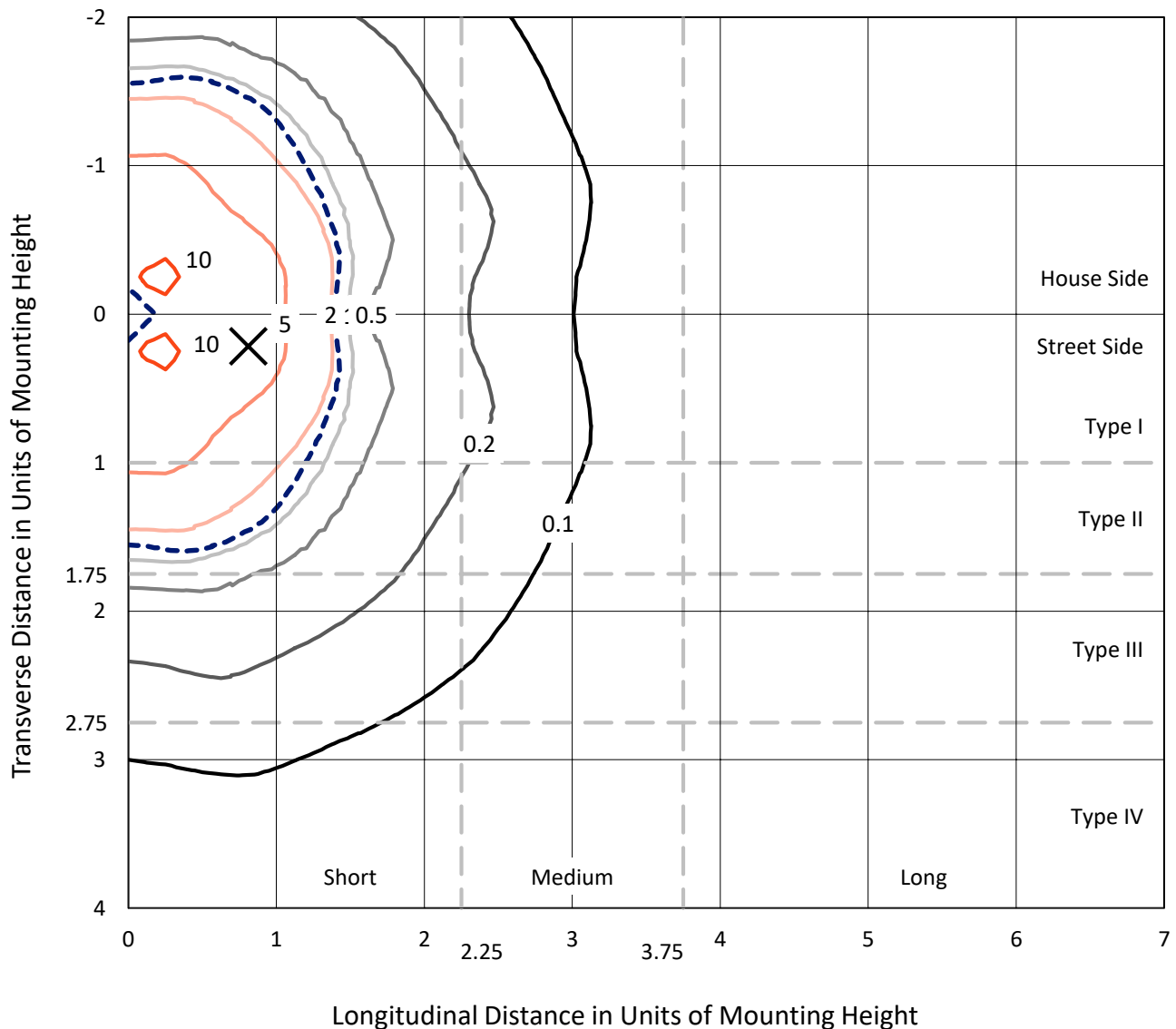


REPORT NUMBER: P266460

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

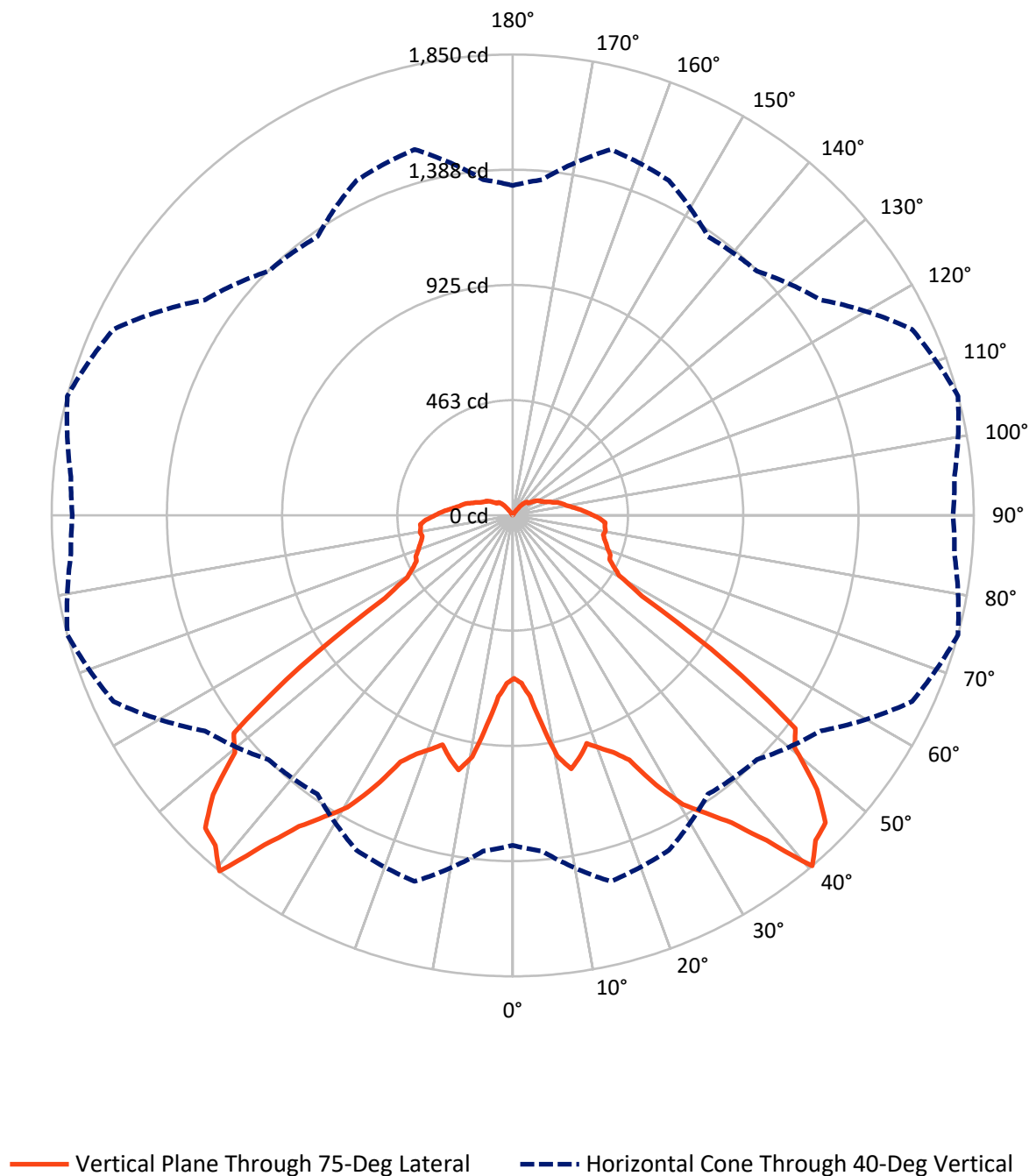


Based on 10 foot mounting height. Maximum calculated value = 11 fc
Type V - Short - Non-Cutoff

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CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-A-7027

Luminous Intensity Polar Plot



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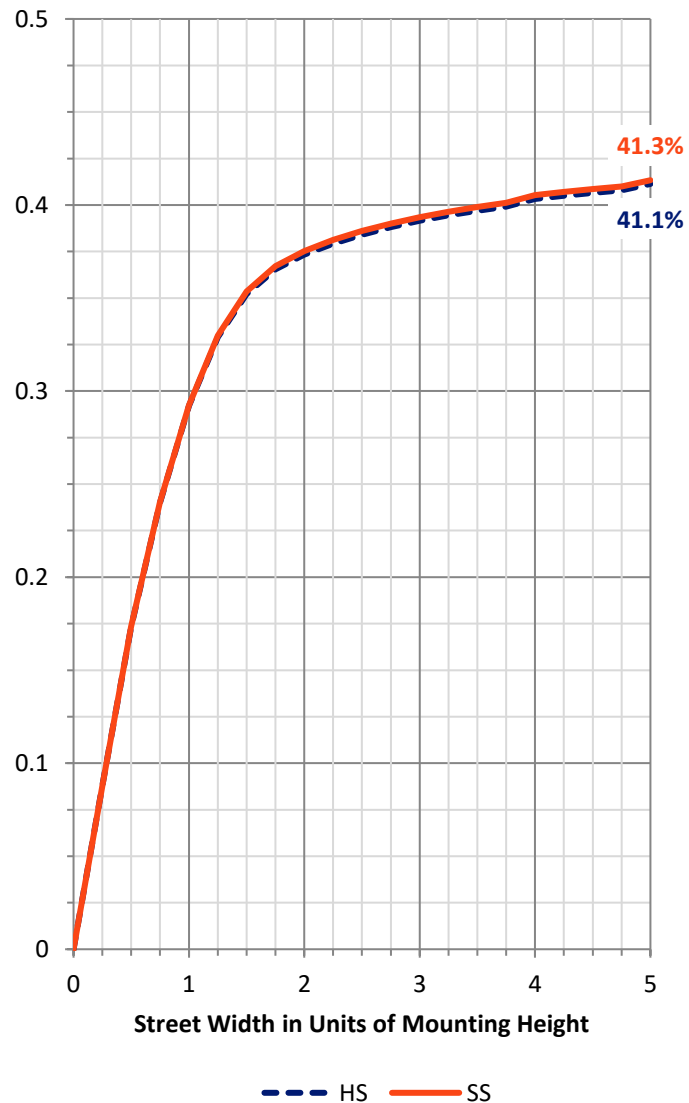
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2602.4	407.8	3010.2
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2602.4	407.8	3010.2
	% Fixture	43.2	6.8	50.0
Total	Lumens	5204.7	815.7	6020.4
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.3
10°-20°	313.6	5.2
20°-30°	560.2	9.3
30°-40°	886.8	14.7
40°-50°	1189.9	19.8
50°-60°	947.1	15.7
60°-70°	434.7	7.2
70°-80°	396.2	6.6
80°-90°	399.2	6.6
90°-100°	307.0	5.1
100°-110°	214.3	3.6
110°-120°	141.6	2.4
120°-130°	88.5	1.5
130°-140°	51.8	0.9
140°-150°	11.8	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5204.7	86.5
0°-180°	6020.4	100.0

Coefficient of Utilization



REPORT NUMBER: P266460

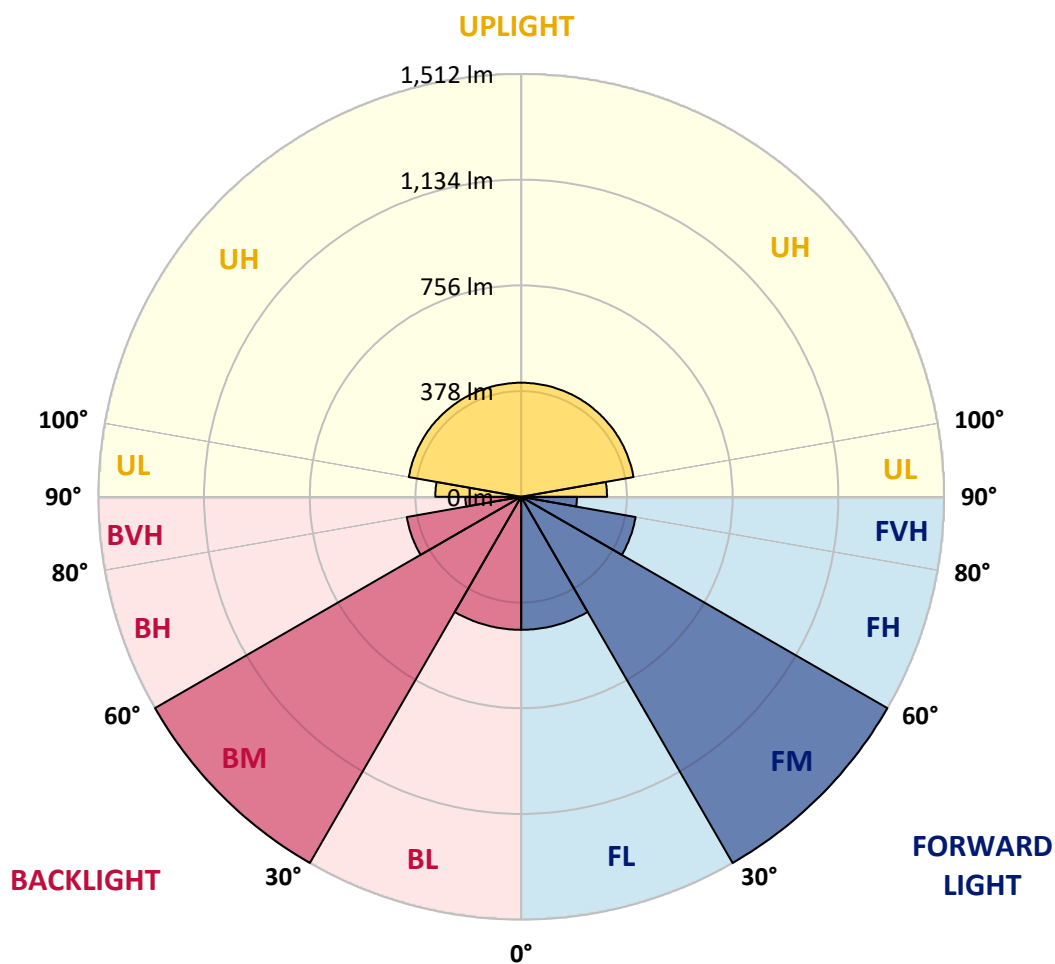
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.5	7.9			
FM	(30°-60°)	1511.9	25.1			
FH	(60°-80°)	415.4	6.9			G0/660
FVH	(80°-90°)	199.6	3.3			G2/225
BL	(0°-30°)	475.5	7.9	B1/500		
BM	(30°-60°)	1511.9	25.1	B2/2500		
BH	(60°-80°)	415.4	6.9	B1/500		G0/660
BVH	(80°-90°)	199.6	3.3			G2/225
UL	(90°-100°)	307.0	5.1		U3/500	
UH	(100°-180°)	407.8	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°	654.1	654.1	654.1	654.1	654.1	654.1	654.1	654.1	654.1	654.1	654.1
2.5°	671.8	671.8	671.8	670.2	671.8	673.4	675.0	675.0	674.2	671.8	670.2
5°	719.2	719.2	718.4	719.9	719.9	716.7	718.4	723.9	729.6	725.6	723.9
7.5°	833.7	831.3	825.7	821.0	815.3	815.3	827.3	834.5	847.5	849.0	844.9
10°	949.1	952.5	955.5	955.5	969.2	984.5	995.0	991.6	982.0	974.8	970.0
12.5°	982.8	985.4	1013.4	1083.8	1135.9	1178.4	1142.5	1087.8	1044.5	1016.5	1013.4
15°	1008.4	1014.9	1050.2	1138.4	1269.0	1304.3	1229.8	1091.1	1006.9	966.8	958.0
17.5°	1034.2	1041.3	1100.8	1228.3	1331.6	1322.8	1233.1	1084.7	962.1	909.2	902.6
20°	1011.8	1019.8	1103.1	1273.8	1349.3	1306.8	1275.5	1135.9	996.5	935.6	928.4
22.5°	1020.6	1028.6	1112.7	1278.6	1325.2	1327.5	1279.5	1196.2	1032.6	962.9	951.7
25°	1036.6	1043.0	1147.2	1314.8	1315.6	1309.2	1285.0	1239.4	1087.0	1020.6	1011.0
27.5°	1036.6	1042.3	1159.3	1299.6	1308.3	1293.9	1324.5	1341.2	1224.2	1164.8	1167.3
30°	1083.0	1086.3	1207.3	1298.0	1277.8	1289.1	1374.9	1426.1	1346.0	1250.6	1249.8
32.5°	1173.6	1188.8	1316.3	1353.2	1274.7	1285.0	1387.7	1477.5	1425.4	1310.7	1298.0
35°	1290.0	1293.9	1411.0	1401.4	1298.0	1292.3	1418.2	1558.5	1514.5	1401.4	1397.4
37.5°	1327.5	1333.3	1472.7	1447.0	1326.0	1330.7	1468.6	1657.2	1655.4	1564.8	1536.0
40°	1324.5	1352.5	1520.8	1483.1	1366.1	1386.2	1508.0	1767.8	1850.2	1779.7	1767.0
42.5°	1563.3	1577.8	1676.3	1540.1	1403.0	1403.0	1524.1	1746.0	1783.0	1648.3	1621.8
45°	1588.2	1587.3	1695.6	1586.5	1412.6	1379.6	1467.1	1663.5	1759.7	1670.7	1631.4
47.5°	1536.8	1556.9	1691.6	1560.0	1395.0	1314.0	1369.2	1568.9	1643.4	1506.4	1475.0
50°	1481.6	1496.8	1599.3	1439.1	1307.6	1249.8	1291.6	1435.9	1465.5	1300.3	1276.3
52.5°	1330.0	1331.6	1453.5	1326.7	1231.3	1172.1	1205.7	1339.6	1420.6	1262.7	1245.8
55°	1127.2	1148.8	1303.5	1225.0	1141.6	1090.4	1096.7	1119.2	1047.9	811.3	756.1
57.5°	861.8	890.0	1070.2	1074.3	1010.1	928.4	838.6	710.3	611.7	392.7	377.6
60°	586.9	610.8	747.2	780.8	806.5	712.6	580.5	506.6	491.5	340.6	329.5
62.5°	363.2	383.1	510.6	522.8	578.8	520.3	460.2	437.7	455.4	325.5	317.6
65°	335.8	349.5	443.4	425.6	439.4	436.0	409.6	405.7	427.4	317.6	311.8
67.5°	324.6	335.8	410.4	397.6	403.2	408.1	389.7	392.7	422.6	323.8	317.6
70°	319.1	331.0	400.0	391.2	396.8	401.6	390.5	385.6	404.9	326.3	317.6
72.5°	315.0	327.9	384.0	378.4	393.6	406.5	395.3	384.8	392.7	327.9	319.1
75°	307.8	320.6	369.7	372.7	396.1	411.2	396.8	380.8	380.1	324.6	314.2
77.5°	306.2	320.6	354.3	374.5	396.8	416.9	405.7	382.4	372.0	326.3	313.5
80°	303.8	319.8	361.6	387.2	403.2	413.7	408.9	392.7	377.6	338.3	324.6
82.5°	317.6	332.0	367.9	396.8	401.6	400.0	400.0	389.7	372.7	339.1	326.3
85°	334.3	345.5	383.1	400.0	396.1	385.6	380.8	380.1	372.0	348.0	337.6
87.5°	331.0	339.1	364.7	380.8	382.4	361.6	362.3	357.5	348.7	324.6	315.8
90°	309.5	315.0	344.0	360.8	350.2	333.5	326.3	316.7	317.6	295.8	289.4
92.5°	295.1	301.4	322.3	332.0	330.2	302.2	297.3	296.6	291.8	273.4	269.3
95°	275.8	279.8	297.3	310.3	302.2	273.4	268.6	264.6	265.4	258.2	258.9
97.5°	271.0	274.2	287.0	284.7	271.0	246.1	242.9	241.4	240.4	236.6	235.6
100°	260.6	260.6	264.6	257.4	241.4	222.9	218.1	218.8	219.6	214.9	213.3
102.5°	242.9	243.7	245.2	238.9	223.7	204.5	199.7	203.6	205.3	203.6	202.8
105°	230.1	229.2	230.1	222.9	206.0	189.3	183.6	187.6	191.6	192.3	190.8
107.5°	210.8	210.1	210.1	202.8	190.0	176.3	171.5	169.2	169.2	169.2	169.2
110°	182.7	183.6	183.6	180.4	173.9	165.9	159.4	154.7	156.3	155.5	157.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	170.0	170.0	168.3	165.9	159.4	151.5	144.3	141.2	139.4	138.7	139.4
115°	156.3	157.2	152.4	150.7	144.3	139.4	132.3	129.8	129.8	132.3	133.8
117.5°	144.3	144.3	141.2	137.1	131.5	127.5	124.2	122.7	122.7	125.9	125.9
120°	130.7	130.7	127.5	122.7	120.3	114.7	115.4	114.7	117.0	121.0	121.9
122.5°	115.4	115.4	112.3	108.2	109.9	105.8	104.3	101.0	105.8	110.6	111.4
125°	102.6	101.8	98.6	93.9	100.3	100.3	96.2	85.8	92.2	96.2	96.9
127.5°	93.9	93.1	89.0	84.3	92.2	96.9	88.2	77.8	80.9	85.0	86.5
130°	89.0	88.2	84.3	78.5	80.9	92.2	79.4	74.6	78.5	82.6	82.6
132.5°	85.8	85.0	81.7	76.1	72.1	84.3	71.3	72.9	78.5	82.6	82.6
135°	79.4	79.4	75.4	67.4	57.8	61.8	57.8	65.8	72.1	75.4	76.1
137.5°	68.1	68.1	64.9	57.8	46.5	44.0	45.8	56.1	63.3	66.6	66.6
140°	53.7	52.9	49.6	43.3	30.5	20.8	29.6	42.5	49.6	52.9	52.9
142.5°	37.6	36.9	32.9	26.5	16.0	7.2	16.0	25.6	32.9	36.1	36.9
145°	24.1	24.1	20.8	16.0	8.1	2.4	6.4	15.2	20.0	23.3	23.3
147.5°	15.2	15.2	12.8	8.9	2.4	1.5	2.4	7.2	12.0	14.5	15.2
150°	8.9	8.9	6.4	3.2	1.5	0.8	1.5	2.4	4.9	7.2	7.2
152.5°	3.2	2.4	1.5	1.5	0.8	0.8	0.8	1.5	1.5	2.4	2.4
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
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)