

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: P266426

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266426
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-AF24-70-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 5502.1 lumens
Efficiency: N/A
Efficacy: 74.4 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): 74
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

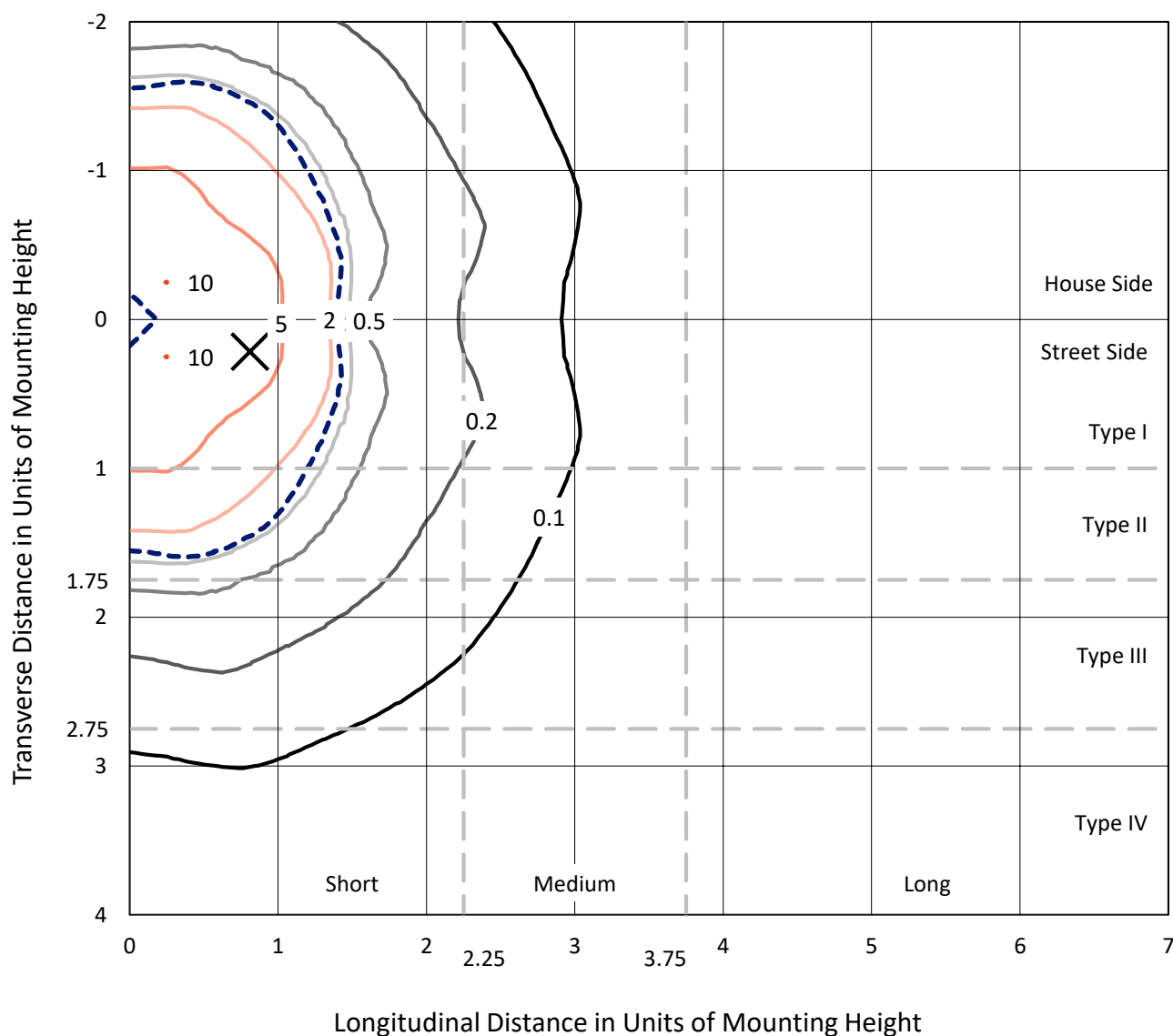


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

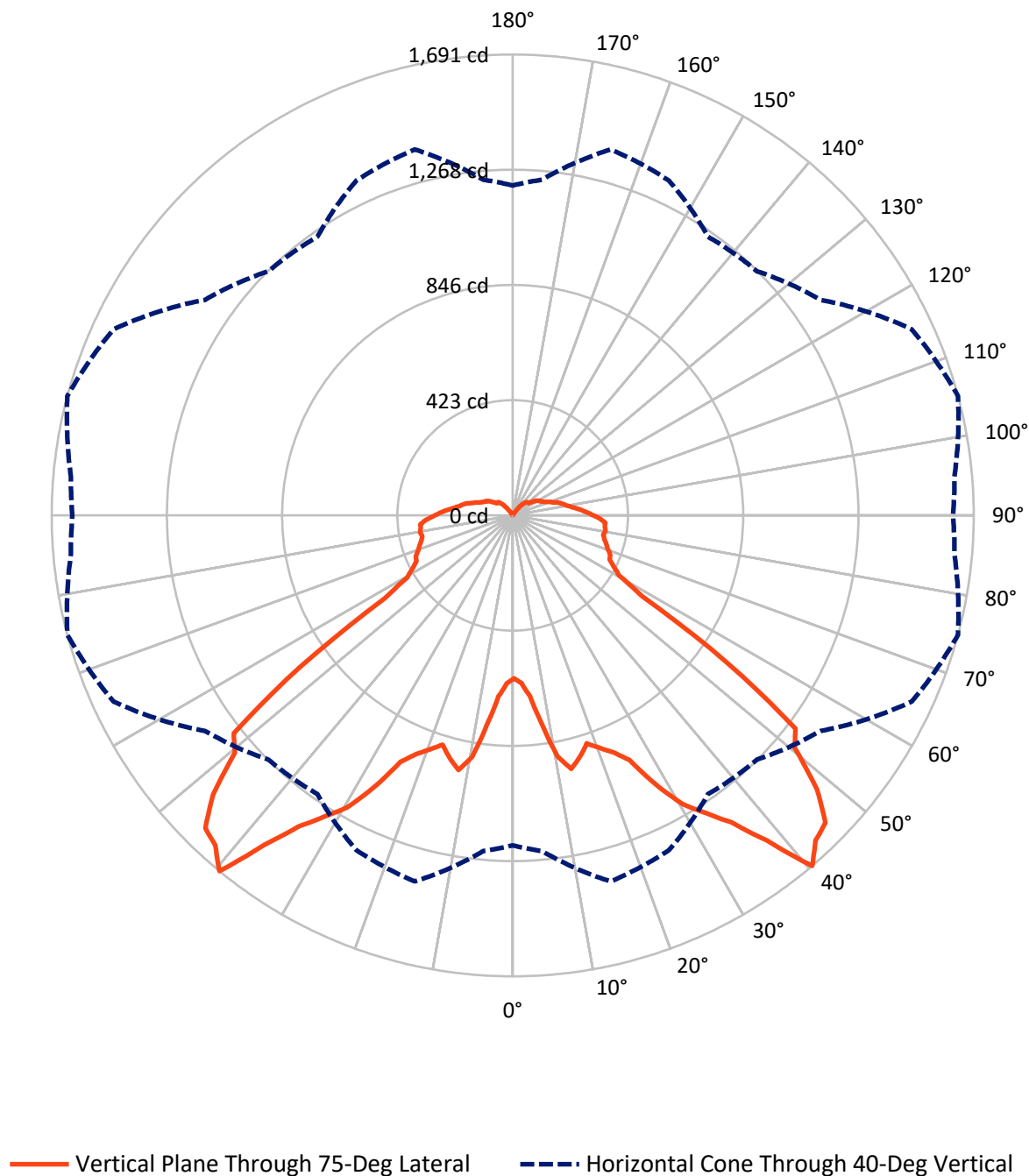


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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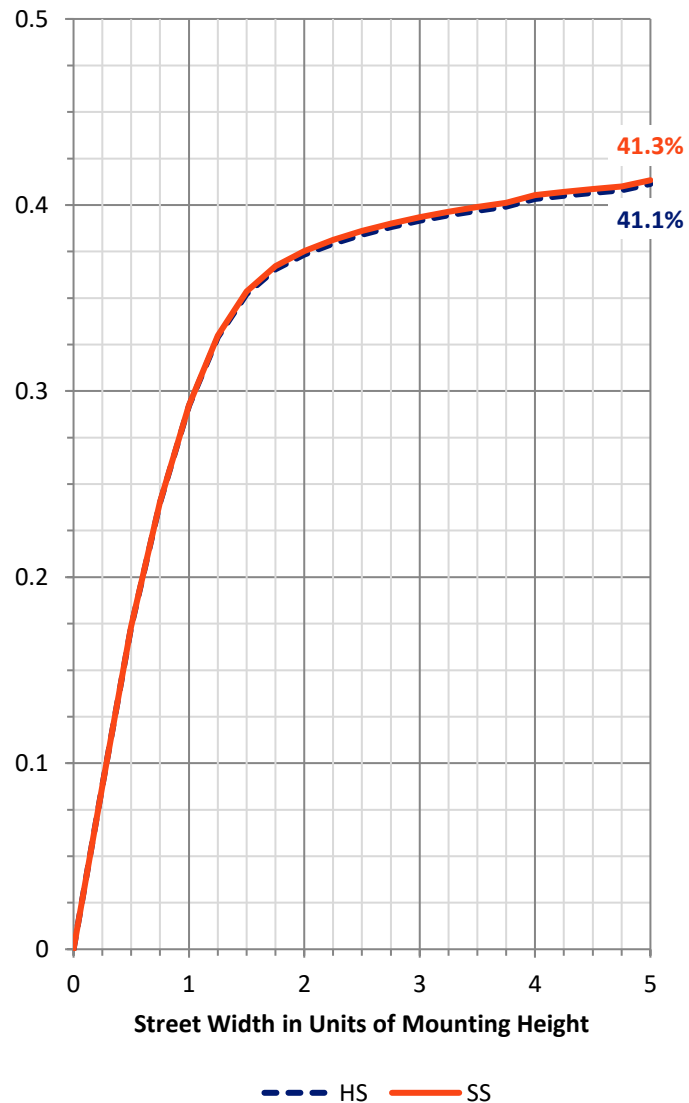
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2378.3	372.7	2751.1
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2378.3	372.7	2751.1
	% Fixture	43.2	6.8	50.0
Total	Lumens	4756.7	745.5	5502.1
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.3
10°-20°	286.6	5.2
20°-30°	511.9	9.3
30°-40°	810.4	14.7
40°-50°	1087.4	19.8
50°-60°	865.5	15.7
60°-70°	397.2	7.2
70°-80°	362.1	6.6
80°-90°	364.8	6.6
90°-100°	280.5	5.1
100°-110°	195.9	3.6
110°-120°	129.4	2.4
120°-130°	80.9	1.5
130°-140°	47.3	0.9
140°-150°	10.7	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4756.7	86.5
0°-180°	5502.1	100.0

Coefficient of Utilization



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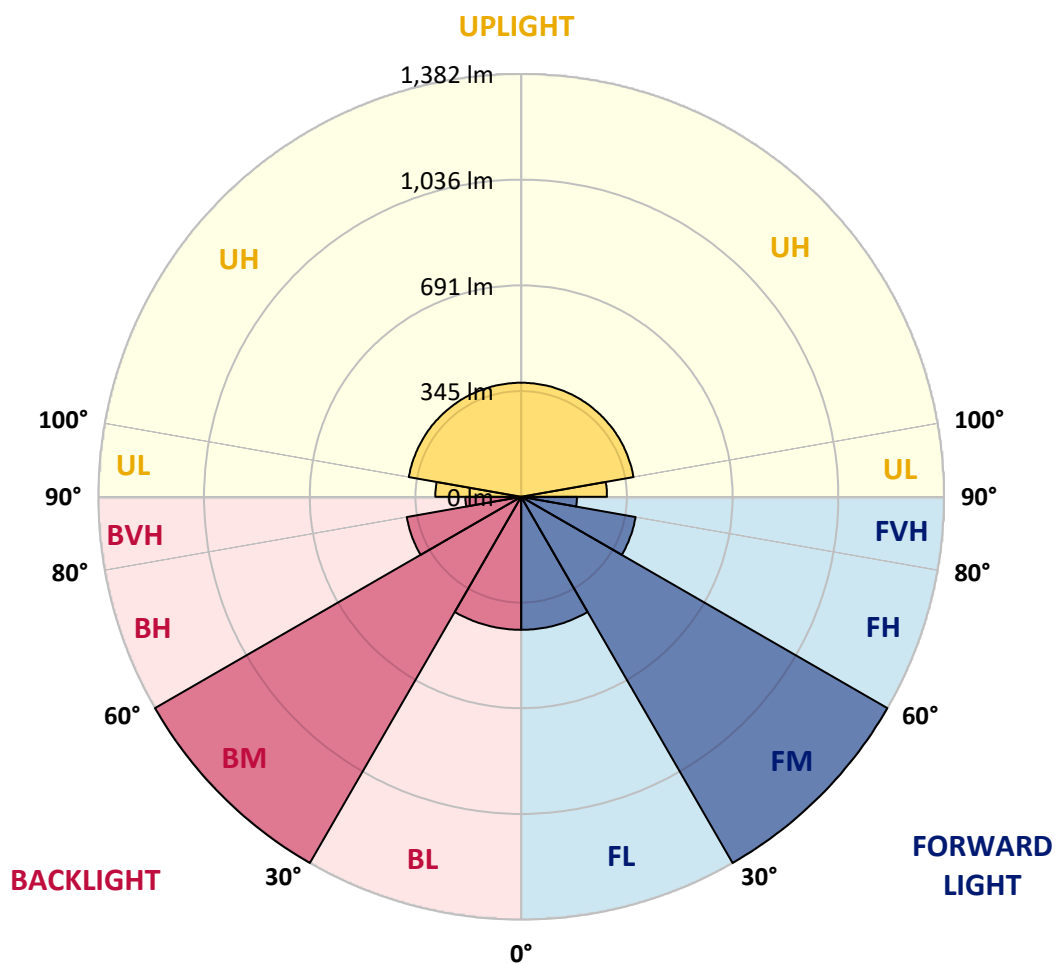
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.5	7.9			
FM	(30°-60°)	1381.7	25.1			
FH	(60°-80°)	379.7	6.9			G0/660
FVH	(80°-90°)	182.4	3.3			G2/225
BL	(0°-30°)	434.5	7.9	B1/500		
BM	(30°-60°)	1381.7	25.1	B2/2500		
BH	(60°-80°)	379.7	6.9	B1/500		G0/660
BVH	(80°-90°)	182.4	3.3			G2/225
UL	(90°-100°)	280.5	5.1		U3/500	
UH	(100°-180°)	372.7	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°	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8
2.5°	614.0	614.0	614.0	612.6	614.0	615.5	617.0	617.0	616.1	614.0	612.6
5°	657.2	657.2	656.5	658.0	658.0	655.0	656.5	661.6	666.7	663.0	661.6
7.5°	762.0	759.7	754.7	750.3	745.1	745.1	756.2	762.8	774.5	775.9	772.3
10°	867.6	870.4	873.3	873.3	885.8	899.7	909.3	906.3	897.5	890.8	886.5
12.5°	898.2	900.6	926.2	990.7	1038.3	1077.1	1044.1	994.2	954.7	929.0	926.2
15°	921.8	927.6	959.7	1040.3	1159.8	1192.1	1123.9	997.2	920.3	883.7	875.6
17.5°	945.1	951.8	1005.9	1122.4	1216.9	1208.8	1126.8	991.3	879.3	830.8	825.1
20°	924.6	932.0	1008.2	1164.3	1233.2	1194.2	1165.7	1038.3	910.7	855.0	848.4
22.5°	932.7	940.0	1016.9	1168.7	1211.2	1213.3	1169.4	1093.1	943.7	880.0	869.6
25°	947.4	953.2	1048.4	1201.7	1202.3	1196.5	1174.4	1132.8	993.5	932.7	923.8
27.5°	947.4	952.6	1059.5	1187.6	1195.7	1182.6	1210.3	1225.7	1118.7	1064.6	1066.7
30°	989.8	992.7	1103.4	1186.2	1167.8	1178.1	1256.5	1303.4	1230.1	1143.0	1142.3
32.5°	1072.7	1086.6	1203.1	1236.7	1164.9	1174.4	1268.2	1350.3	1302.7	1197.9	1186.2
35°	1178.8	1182.6	1289.4	1280.8	1186.2	1181.1	1296.2	1424.4	1384.0	1280.8	1277.1
37.5°	1213.3	1218.5	1345.9	1322.5	1211.9	1216.2	1342.2	1514.5	1512.9	1430.2	1403.8
40°	1210.3	1236.1	1389.9	1355.5	1248.5	1266.8	1378.2	1615.5	1691.0	1626.6	1614.9
42.5°	1428.8	1441.9	1532.0	1407.5	1282.2	1282.2	1392.8	1595.7	1629.4	1506.4	1482.3
45°	1451.4	1450.8	1549.7	1450.0	1291.0	1261.0	1340.8	1520.3	1608.2	1526.8	1490.9
47.5°	1404.5	1422.8	1546.0	1425.8	1274.9	1200.9	1251.3	1433.9	1502.0	1376.7	1348.1
50°	1353.9	1367.8	1461.7	1315.2	1194.9	1142.3	1180.4	1312.2	1339.4	1188.4	1166.4
52.5°	1215.4	1216.9	1328.4	1212.6	1125.3	1071.1	1102.0	1224.3	1298.3	1154.0	1138.6
55°	1030.1	1049.8	1191.3	1119.6	1043.3	996.4	1002.2	1022.8	957.7	741.6	690.9
57.5°	787.6	813.2	978.2	981.8	923.2	848.4	766.3	649.1	559.0	359.1	345.0
60°	536.3	558.2	682.8	713.7	737.1	651.4	530.4	463.0	449.2	311.4	301.1
62.5°	332.0	350.2	466.7	477.7	529.0	475.6	420.5	400.0	416.2	297.5	290.2
65°	307.0	319.4	405.1	389.1	401.5	398.6	374.5	370.7	390.6	290.2	285.0
67.5°	296.7	307.0	375.1	363.5	368.6	372.9	356.1	359.1	386.1	296.0	290.2
70°	291.6	302.5	365.6	357.5	362.6	367.0	356.7	352.4	370.0	298.1	290.2
72.5°	287.9	299.7	351.0	345.8	359.7	371.4	361.2	351.6	359.1	299.7	291.6
75°	281.3	293.0	337.8	340.6	361.9	375.9	362.6	348.1	347.3	296.7	287.2
77.5°	279.9	293.0	323.8	342.2	362.6	381.1	370.7	349.5	340.0	298.1	286.5
80°	277.7	292.4	330.4	353.9	368.6	378.0	373.6	359.1	345.0	309.1	296.7
82.5°	290.2	303.4	336.2	362.6	367.0	365.6	365.6	356.1	340.6	309.9	298.1
85°	305.6	315.8	350.2	365.6	361.9	352.4	348.1	347.3	340.0	318.0	308.5
87.5°	302.5	309.9	333.5	348.1	349.5	330.4	331.1	326.8	318.7	296.7	288.6
90°	282.8	287.9	314.2	329.7	320.2	304.7	298.1	289.4	290.2	270.4	264.6
92.5°	269.6	275.5	294.6	303.4	301.9	276.1	271.8	271.1	266.6	249.9	246.1
95°	252.1	255.7	271.8	283.5	276.1	249.9	245.4	241.7	242.5	236.0	236.7
97.5°	247.7	250.5	262.2	260.1	247.7	224.9	222.1	220.5	219.8	216.1	215.5
100°	238.1	238.1	241.7	235.1	220.5	203.6	199.2	200.1	200.7	196.4	194.9
102.5°	222.1	222.7	224.1	218.4	204.5	186.8	182.4	186.0	187.6	186.0	185.4
105°	210.3	209.6	210.3	203.6	188.4	173.0	167.8	171.4	175.1	175.9	174.5
107.5°	192.6	192.0	192.0	185.4	173.6	161.2	156.8	154.6	154.6	154.6	154.6
110°	167.1	167.8	167.8	164.8	159.0	151.6	145.9	141.5	142.9	142.1	143.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	155.3	155.3	153.9	151.6	145.9	138.5	132.0	128.9	127.5	126.8	127.5
115°	142.9	143.5	139.1	137.7	132.0	127.5	120.9	118.7	118.7	120.9	122.3
117.5°	132.0	132.0	128.9	125.4	120.2	116.5	113.5	112.1	112.1	115.1	115.1
120°	119.5	119.5	116.5	112.1	110.0	104.7	105.6	104.7	107.0	110.6	111.4
122.5°	105.6	105.6	102.5	99.0	100.4	96.7	95.2	92.3	96.7	101.1	101.9
125°	93.9	93.1	90.1	85.7	91.5	91.5	87.9	78.4	84.3	87.9	88.7
127.5°	85.7	85.0	81.3	77.0	84.3	88.7	80.6	71.1	74.0	77.7	79.1
130°	81.3	80.6	77.0	71.9	74.0	84.3	72.6	68.1	71.9	75.5	75.5
132.5°	78.4	77.7	74.6	69.6	65.9	77.0	65.1	66.7	71.9	75.5	75.5
135°	72.6	72.6	68.9	61.5	52.7	56.5	52.7	60.0	65.9	68.9	69.6
137.5°	62.3	62.3	59.4	52.7	42.5	40.3	41.9	51.4	57.9	60.8	60.8
140°	49.0	48.4	45.5	39.5	27.8	19.0	27.0	38.8	45.5	48.4	48.4
142.5°	34.5	33.6	30.1	24.2	14.6	6.6	14.6	23.4	30.1	33.0	33.6
145°	22.0	22.0	19.0	14.6	7.4	2.2	5.8	14.0	18.3	21.2	21.2
147.5°	14.0	14.0	11.7	8.1	2.2	1.4	2.2	6.6	11.0	13.1	14.0
150°	8.1	8.1	5.8	3.0	1.4	0.7	1.4	2.2	4.4	6.6	6.6
152.5°	3.0	2.2	1.4	1.4	0.7	0.7	0.7	1.4	1.4	2.2	2.2
155°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	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)