

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: P240364

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.3 lumens
Efficiency: N/A
Efficacy: 96.0 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 - U3 - G3

Input Watts (W): 54
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

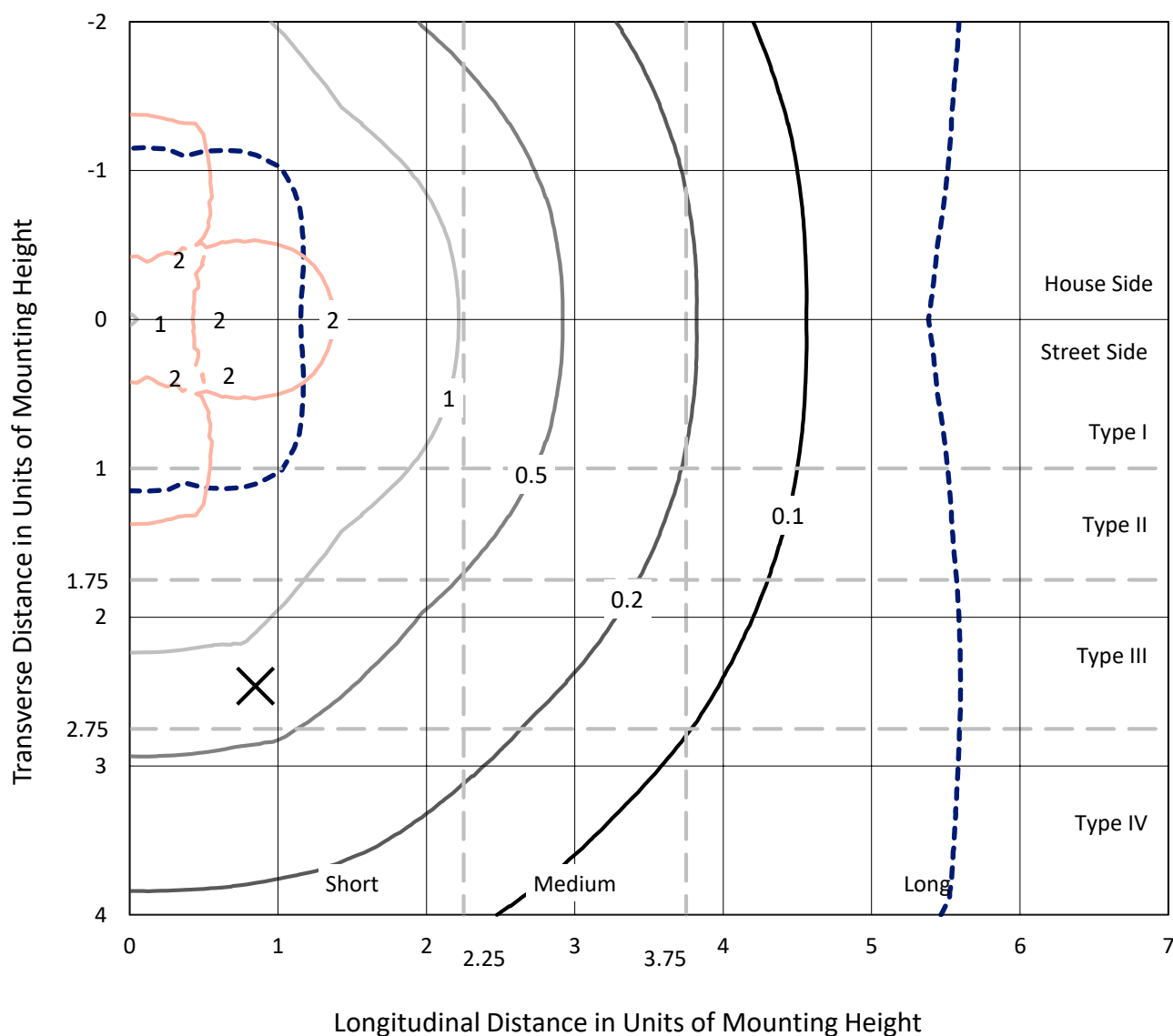


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

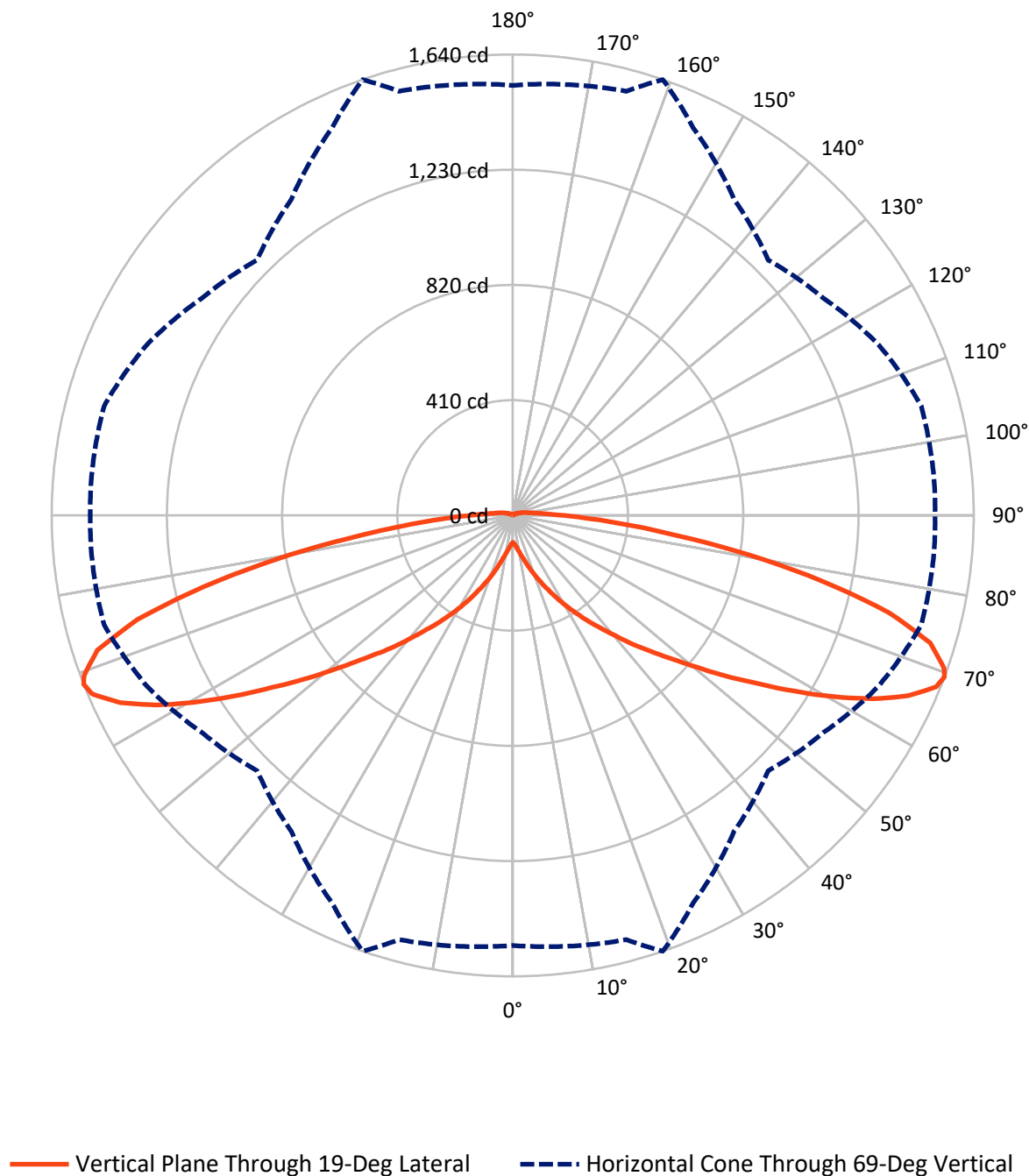


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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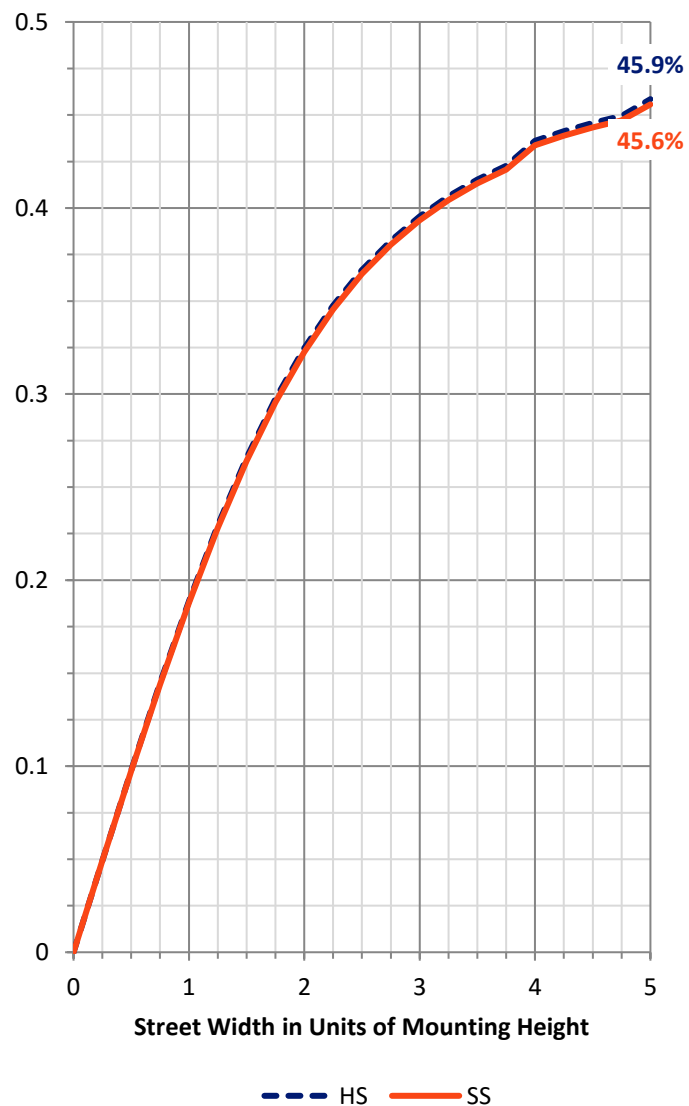
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2486.5	105.1	2591.6
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2486.5	105.1	2591.6
	% Fixture	48.0	2.0	50.0
Total	Lumens	4973.0	210.3	5183.3
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.2
10°-20°	46.3	0.9
20°-30°	126.3	2.4
30°-40°	266.9	5.1
40°-50°	487.4	9.4
50°-60°	851.2	16.4
60°-70°	1334.3	25.7
70°-80°	1316.4	25.4
80°-90°	533.8	10.3
90°-100°	128.7	2.5
100°-110°	46.9	0.9
110°-120°	19.7	0.4
120°-130°	9.1	0.2
130°-140°	4.2	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4973.0	95.9
0°-180°	5183.3	100.0

Coefficient of Utilization



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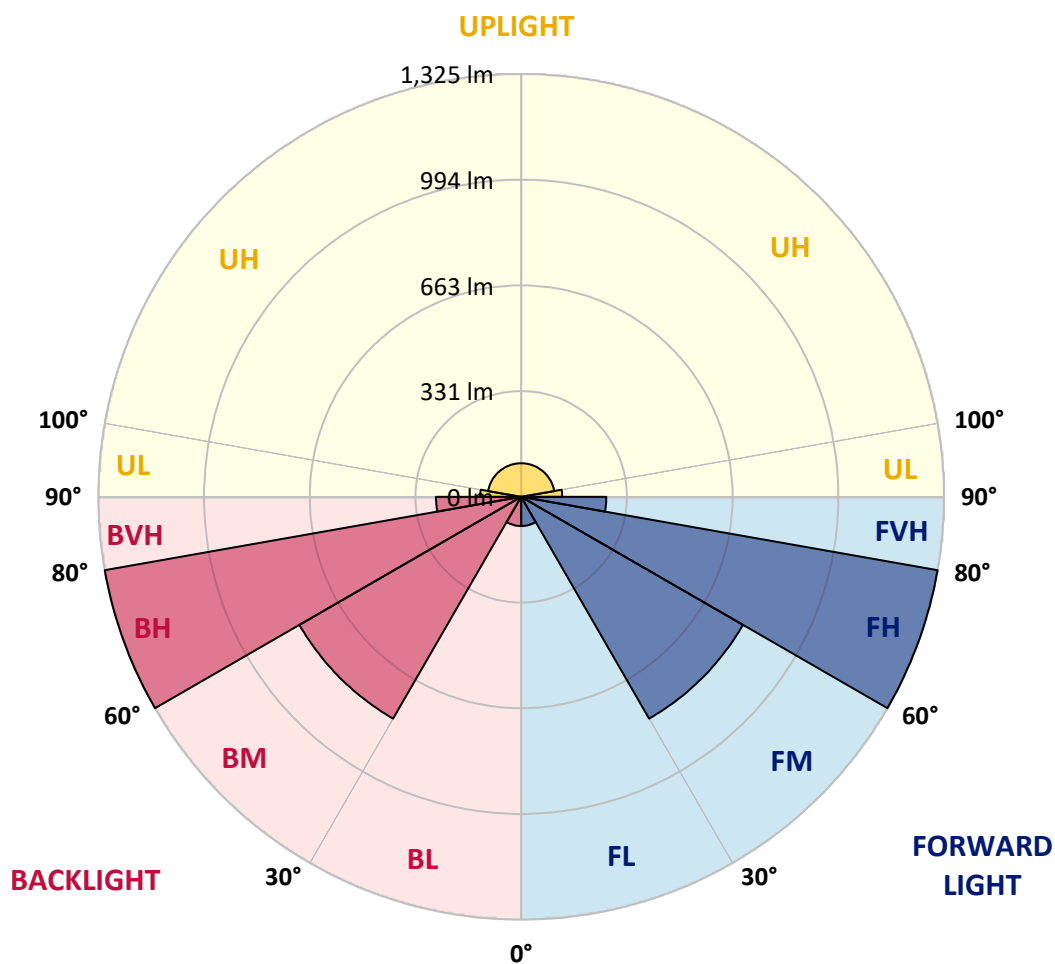
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.5	1.8			
FM	(30°-60°)	802.7	15.5			
FH	(60°-80°)	1325.3	25.6			G1/1800
FVH	(80°-90°)	266.9	5.1			G3/500
BL	(0°-30°)	91.5	1.8	B0/110		
BM	(30°-60°)	802.7	15.5	B1/1000		
BH	(60°-80°)	1325.3	25.6	B3/2500		G1/1800
BVH	(80°-90°)	266.9	5.1			G3/500
UL	(90°-100°)	128.7	2.5		U3/500	
UH	(100°-180°)	105.1	2.0		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
2.5°	97.8	97.8	97.8	100.3	97.8	97.8	97.8	97.8	97.8	97.8	97.2
5°	102.8	102.8	102.8	108.5	102.8	102.1	102.1	102.8	102.1	102.1	102.1
7.5°	112.2	111.7	111.7	119.1	111.7	111.0	110.4	110.4	110.4	109.7	109.7
10°	124.8	124.1	123.6	133.6	122.9	122.3	121.6	121.1	121.1	121.1	121.6
12.5°	141.1	141.1	139.9	151.1	138.0	136.0	134.8	134.2	134.8	135.5	136.0
15°	161.8	162.4	160.5	172.4	156.1	153.0	151.1	151.1	152.4	154.3	156.1
17.5°	189.3	188.8	184.9	199.4	180.0	173.7	169.4	169.9	174.4	179.3	182.5
20°	219.5	217.7	213.2	227.6	205.6	196.2	191.2	192.6	200.1	208.1	212.6
22.5°	252.7	250.9	244.5	259.0	233.3	221.4	216.4	218.2	227.6	239.5	248.3
25°	289.1	288.5	279.7	292.9	262.8	248.3	241.5	245.9	259.0	277.2	287.8
27.5°	329.2	328.0	316.7	331.0	296.0	278.4	270.3	274.7	292.2	316.1	333.0
30°	373.1	371.8	356.1	371.8	331.0	308.5	299.2	306.0	327.3	359.4	378.1
32.5°	420.1	418.9	399.5	414.5	370.0	341.1	328.6	337.9	365.6	400.7	425.8
35°	469.7	466.5	446.5	460.8	411.4	375.0	359.9	374.3	405.2	446.5	474.7
37.5°	523.1	519.2	496.0	508.6	454.6	413.2	396.3	409.5	448.4	492.2	526.7
40°	578.2	575.0	546.9	563.1	504.1	454.0	434.0	450.2	494.7	541.2	576.9
42.5°	636.4	633.3	606.4	627.0	557.4	498.6	475.3	496.0	544.3	595.7	634.6
45°	696.6	695.4	669.8	689.8	615.1	550.5	524.2	548.1	600.7	657.7	695.4
47.5°	770.1	762.5	743.1	762.5	684.2	614.5	582.0	607.1	665.3	727.4	765.1
50°	842.8	841.6	824.6	848.4	761.9	680.3	644.6	673.5	739.9	803.9	839.6
52.5°	929.4	931.9	913.6	949.4	852.2	763.7	721.1	753.8	827.7	889.8	924.9
55°	1022.1	1023.3	1015.9	1054.2	949.4	850.2	805.1	840.9	916.8	985.1	1018.4
57.5°	1130.0	1128.7	1126.3	1178.9	1063.5	953.8	898.0	941.3	1020.3	1089.2	1116.8
60°	1236.6	1236.6	1242.9	1308.7	1184.0	1060.4	995.8	1045.3	1128.7	1201.5	1221.5
62.5°	1352.0	1353.8	1359.5	1436.6	1299.3	1168.8	1094.9	1148.8	1242.9	1309.9	1326.3
65°	1446.0	1454.8	1467.4	1547.0	1414.1	1267.3	1189.5	1246.6	1343.2	1409.7	1419.8
67.5°	1514.4	1518.7	1542.6	1625.3	1498.7	1345.6	1260.5	1319.3	1414.7	1482.4	1488.6
69°	1530.0	1540.1	1562.1	1639.8	1520.7	1372.7	1284.9	1348.1	1436.0	1504.3	1504.3
70°	1523.2	1535.6	1562.1	1627.9	1525.7	1381.5	1295.5	1354.5	1440.4	1503.7	1501.9
72.5°	1447.2	1456.1	1501.2	1553.2	1487.4	1363.9	1290.5	1341.2	1401.5	1445.4	1434.1
75°	1287.4	1296.2	1346.9	1384.0	1367.6	1281.1	1229.0	1262.3	1291.1	1295.5	1274.2
77.5°	1040.2	1053.5	1123.7	1126.3	1175.1	1141.2	1113.7	1125.6	1107.5	1087.3	1040.9
80°	785.1	794.6	859.1	852.8	933.7	955.0	951.8	945.0	890.5	827.1	775.0
82.5°	544.3	551.9	616.4	587.6	693.6	744.9	763.1	739.3	656.5	585.1	538.6
85°	348.6	361.2	412.0	393.3	487.2	549.3	576.3	539.3	460.8	391.9	353.0
87.5°	225.7	230.7	267.8	252.1	323.5	387.6	416.4	386.2	316.7	259.0	226.3
90°	145.6	151.1	174.4	162.4	216.4	266.5	290.9	262.8	214.4	173.7	151.1
92.5°	101.6	106.0	119.1	112.2	145.6	183.8	205.6	183.8	148.6	122.9	106.6
95°	77.8	79.6	89.0	82.8	106.0	133.0	146.1	133.0	108.5	92.3	80.9
97.5°	61.4	62.8	69.6	64.6	79.6	99.1	109.2	99.8	83.4	72.1	63.4
100°	49.5	50.1	55.8	53.3	63.9	77.8	84.6	78.3	67.0	57.7	50.8
102.5°	40.1	40.1	45.8	44.5	52.7	62.8	67.7	64.6	55.1	47.0	40.1
105°	32.0	32.0	37.0	37.0	43.9	51.5	55.8	52.7	45.2	37.5	32.0
107.5°	25.1	25.6	29.5	29.5	36.4	42.6	45.8	43.2	37.0	29.5	25.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	20.1	20.6	23.8	24.5	30.0	35.7	38.2	35.7	30.0	23.2	19.4
112.5°	16.3	16.3	19.4	19.4	24.5	29.5	31.3	29.5	24.5	18.1	15.7
115°	13.7	13.7	15.7	15.7	20.1	24.5	26.3	24.5	19.4	15.1	13.2
117.5°	11.9	11.9	13.2	13.2	16.9	20.6	22.0	20.1	16.3	12.6	11.3
120°	10.7	10.7	11.3	11.3	13.7	16.9	18.1	16.9	13.2	10.7	10.1
122.5°	9.4	9.4	10.1	9.4	11.9	14.4	15.1	13.7	11.3	9.4	8.7
125°	8.7	8.7	8.7	8.2	10.1	11.9	12.6	11.3	9.4	8.2	8.2
127.5°	7.5	7.5	7.5	6.9	8.2	10.1	10.7	9.4	8.2	7.5	6.9
130°	6.9	6.9	6.9	6.2	7.5	8.2	8.7	8.2	6.9	6.9	6.9
132.5°	6.2	6.2	6.2	5.7	6.2	6.9	6.9	6.2	5.7	5.7	6.2
135°	5.7	5.7	5.7	5.0	5.0	5.0	5.7	5.0	5.0	5.0	5.7
137.5°	5.0	5.0	5.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.0
140°	4.4	4.4	4.4	3.2	3.8	3.2	3.2	3.2	3.8	3.8	4.4
142.5°	3.8	3.8	3.2	3.2	3.2	2.5	1.8	2.5	2.5	3.2	3.8
145°	3.2	3.2	2.5	2.5	2.5	1.8	1.2	1.2	2.5	2.5	2.5
147.5°	2.5	2.5	1.8	1.8	1.8	1.2	0.6	1.2	1.8	1.8	2.5
150°	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	1.2	1.2	1.8
152.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.0	0.6	0.6	1.2	1.2
155°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°
0°	95.9
2.5°	97.2
5°	102.1
7.5°	109.7
10°	121.1
12.5°	136.7
15°	156.1
17.5°	181.8
20°	213.8
22.5°	250.9
25°	290.9
27.5°	334.9
30°	380.7
32.5°	430.2
35°	480.3
37.5°	529.9
40°	583.2
42.5°	637.1
45°	697.3
47.5°	766.9
50°	846.5
52.5°	928.7
55°	1015.9
57.5°	1116.8
60°	1223.3
62.5°	1327.5
65°	1417.2
67.5°	1486.8
69°	1502.5
70°	1497.4
72.5°	1420.9
75°	1258.5
77.5°	1030.4
80°	758.1
82.5°	519.2
85°	344.9
87.5°	220.7
90°	144.9
92.5°	103.5
95°	78.3
97.5°	62.1
100°	49.5
102.5°	40.1
105°	31.3
107.5°	24.5



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CANDELA DISTRIBUTION (continued):

	90°
110°	19.4
112.5°	15.7
115°	13.2
117.5°	11.3
120°	9.4
122.5°	8.7
125°	8.2
127.5°	6.9
130°	6.9
132.5°	6.2
135°	5.7
137.5°	5.0
140°	4.4
142.5°	3.8
145°	3.2
147.5°	1.8
150°	1.8
152.5°	1.2
155°	0.6
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)