

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: P266360

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)
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-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4868.1 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 - Semi-Cutoff
BUG Rating: B3 - U2 - G1

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



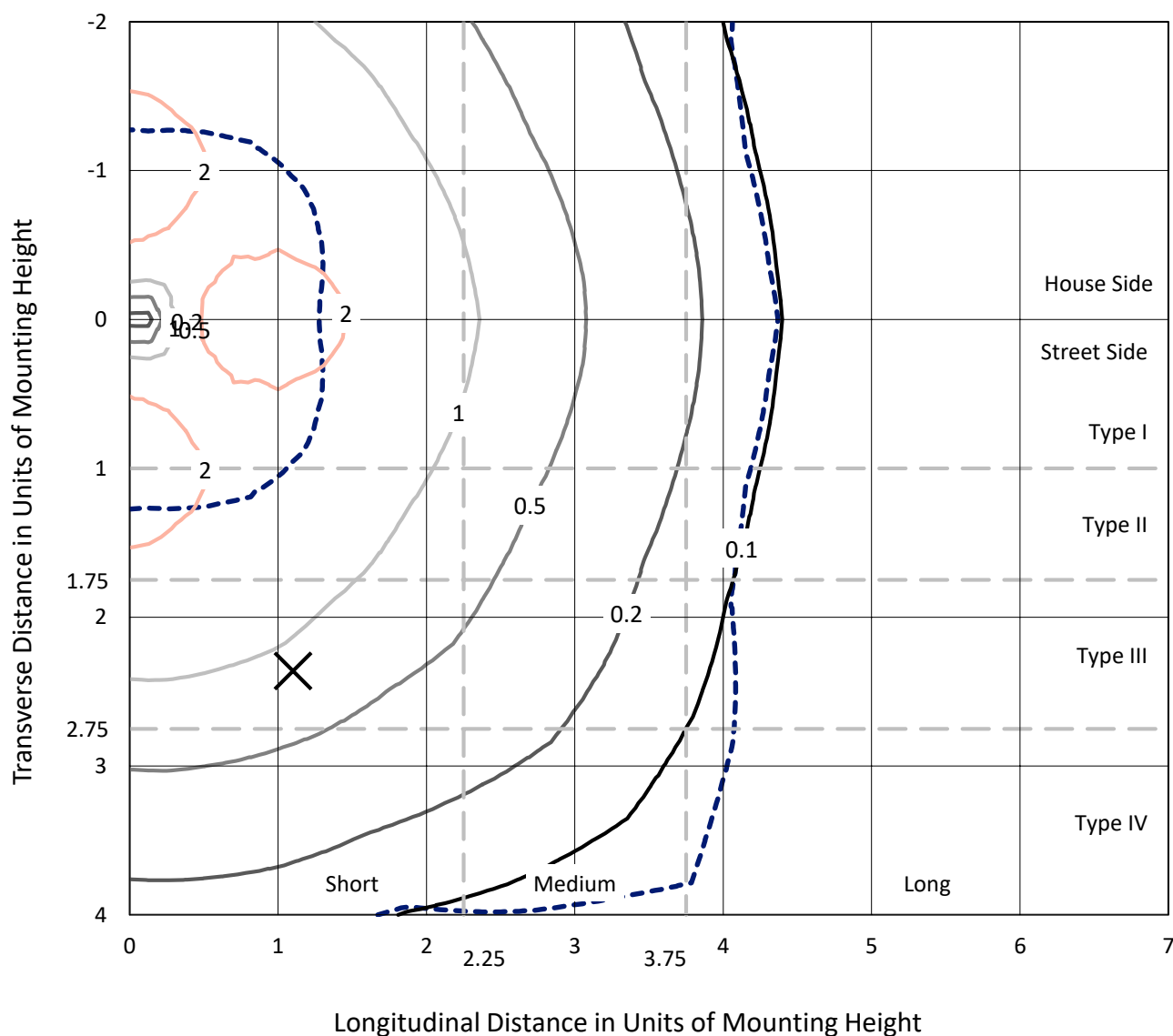
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

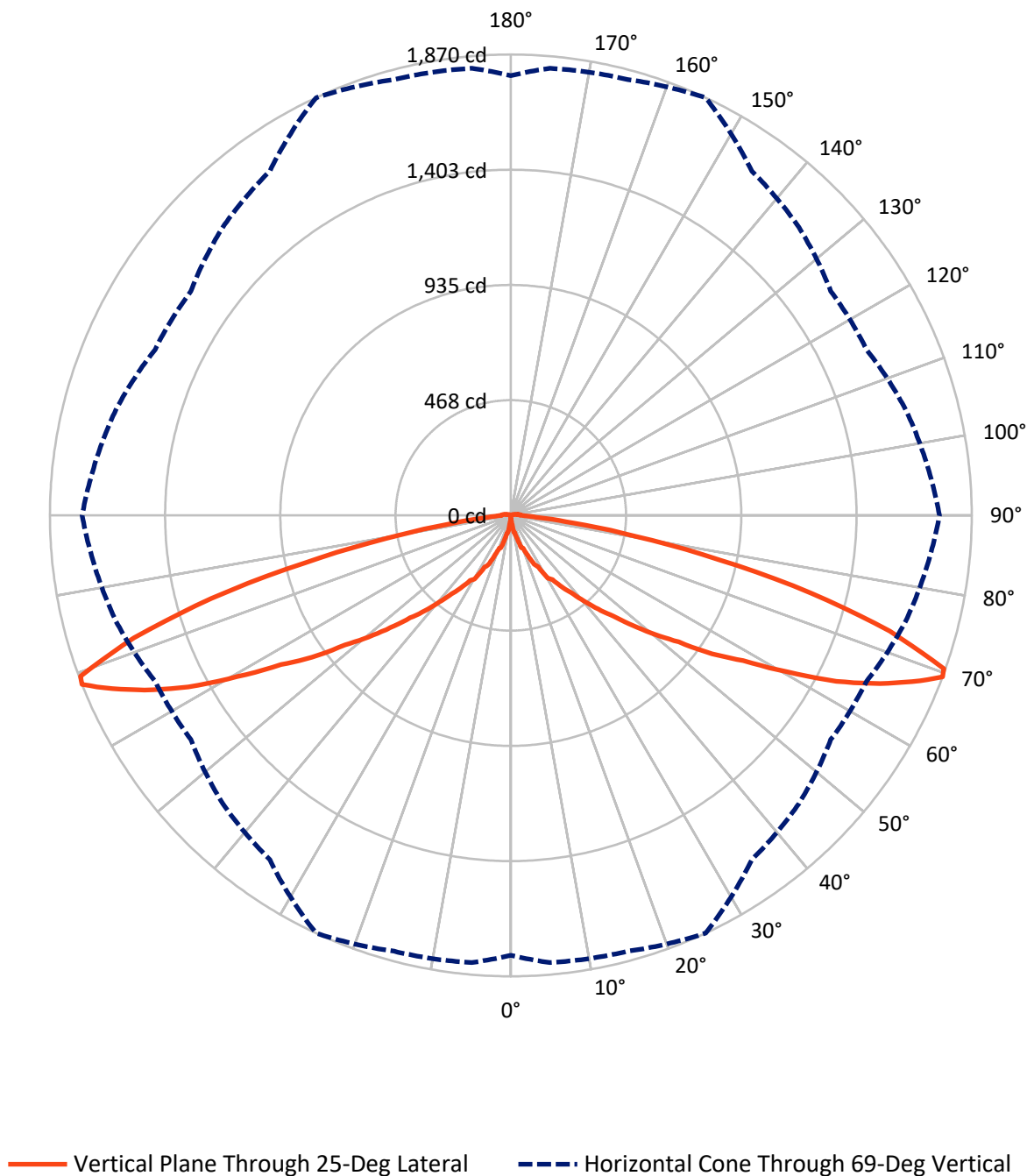


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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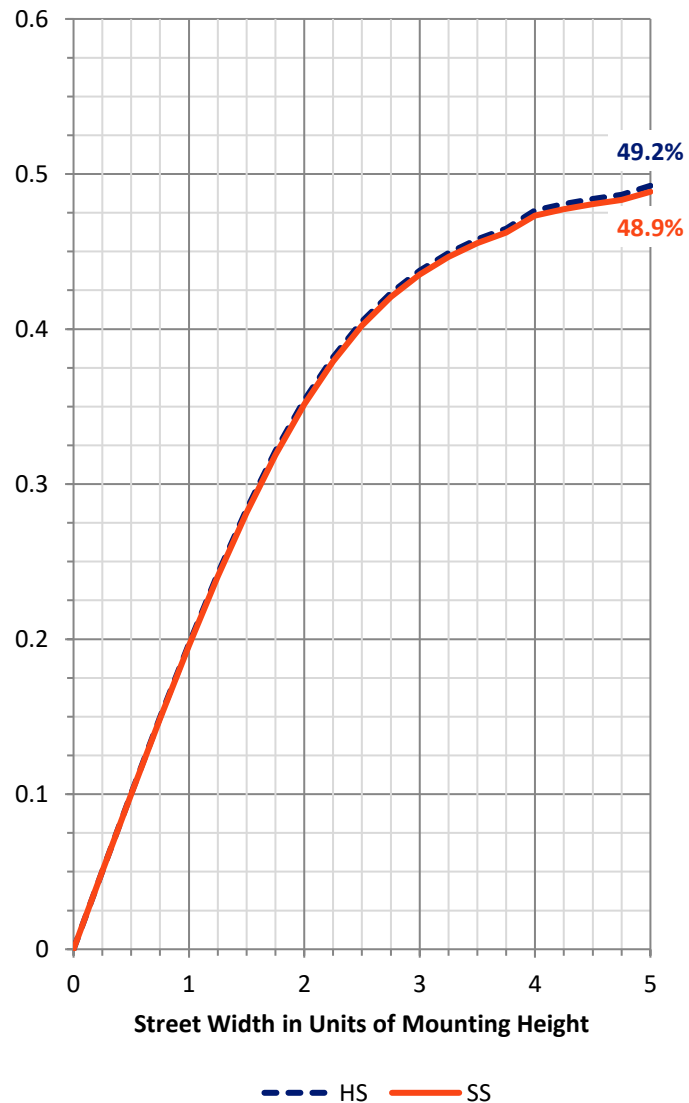
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2403.8	30.3	2434.1
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	2403.8	30.3	2434.1
	% Fixture	49.4	0.6	50.0
Total	Lumens	4807.6	60.6	4868.1
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	28.7	0.6
20°-30°	107.0	2.2
30°-40°	242.9	5.0
40°-50°	465.7	9.6
50°-60°	898.2	18.5
60°-70°	1545.3	31.7
70°-80°	1319.0	27.1
80°-90°	198.1	4.1
90°-100°	32.4	0.7
100°-110°	14.7	0.3
110°-120°	5.9	0.1
120°-130°	3.9	0.1
130°-140°	2.4	0.0
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4807.6	98.8
0°-180°	4868.1	100.0

Coefficient of Utilization



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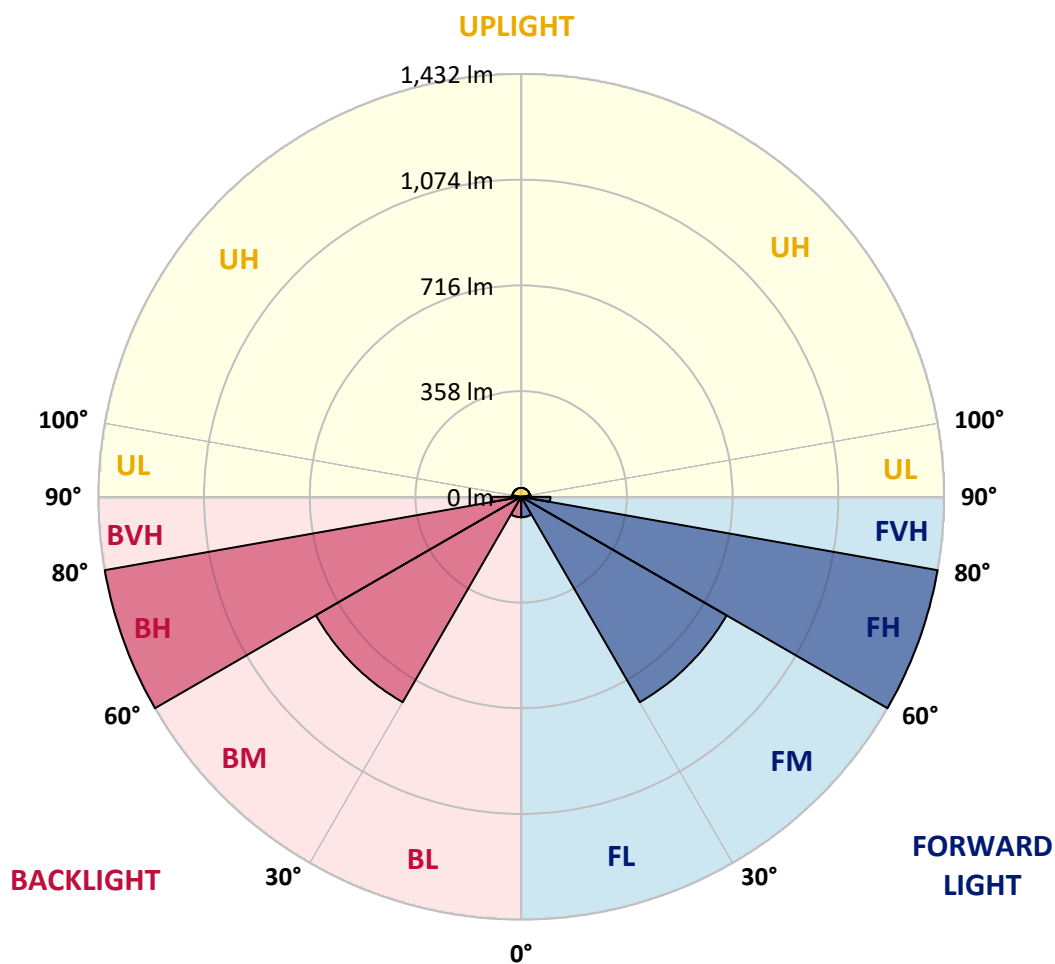
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.2	1.4			
FM	(30°-60°)	803.4	16.5			
FH	(60°-80°)	1432.1	29.4			G1/1800
FVH	(80°-90°)	99.1	2.0			G1/100
BL	(0°-30°)	69.2	1.4	B0/110		
BM	(30°-60°)	803.4	16.5	B1/1000		
BH	(60°-80°)	1432.1	29.4	B3/2500		G1/1800
BVH	(80°-90°)	99.1	2.0			G1/100
UL	(90°-100°)	32.4	0.7		U2/50	
UH	(100°-180°)	30.3	0.6		U2/50	

BUG Rating: B3-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	22.0	22.0	22.0	20.8	20.8	23.0	15.8	12.3	11.9	10.2	10.2
5°	24.9	25.3	23.6	22.5	22.0	23.0	23.6	22.0	13.6	10.7	9.6
7.5°	41.7	45.0	41.1	36.7	34.9	24.3	21.4	23.6	18.1	11.3	10.7
10°	73.2	72.7	74.4	69.3	50.1	38.8	32.1	22.0	26.5	20.3	19.1
12.5°	74.4	73.2	73.8	73.8	71.5	64.1	46.7	51.3	55.2	59.2	57.0
15°	129.5	127.3	116.1	100.3	71.5	87.3	88.5	91.3	82.3	78.8	77.2
17.5°	146.5	144.7	142.6	136.9	124.4	109.2	107.5	107.5	121.1	136.9	127.9
20°	162.2	158.8	143.5	141.5	152.6	137.4	132.4	160.5	173.6	186.9	181.9
22.5°	227.6	234.3	229.2	176.8	165.1	165.1	184.2	191.5	192.6	198.9	194.4
25°	233.2	236.6	231.0	219.6	208.3	192.6	205.6	214.1	248.4	260.8	258.1
27.5°	296.9	299.0	269.2	236.1	238.3	230.3	231.6	263.7	295.2	297.3	309.8
30°	319.9	322.9	308.1	295.7	262.5	261.9	274.9	296.9	334.0	361.1	383.0
32.5°	392.0	379.7	339.6	311.0	296.4	291.8	301.9	343.6	384.1	406.8	433.7
35°	432.7	438.3	429.7	356.5	323.3	340.2	342.4	359.4	396.5	435.9	451.8
37.5°	497.4	499.1	443.4	398.8	355.4	384.1	396.5	397.1	445.0	491.7	504.7
40°	539.1	554.9	518.9	455.7	396.1	413.9	416.3	464.2	508.6	539.1	559.4
42.5°	601.1	600.4	562.2	519.8	442.8	459.7	469.8	487.8	560.5	597.1	617.3
45°	669.1	668.1	633.8	582.5	514.9	499.1	514.3	565.6	643.2	673.6	663.6
47.5°	754.8	759.8	725.6	667.5	578.5	606.6	587.0	656.2	684.4	723.2	748.6
50°	843.1	848.3	806.0	759.2	664.0	666.4	676.0	730.1	774.5	836.0	862.9
52.5°	960.9	965.5	923.7	852.9	777.9	785.2	781.3	809.5	891.7	955.3	945.7
55°	1090.0	1088.2	1037.5	991.4	926.1	901.3	886.1	959.7	1008.8	1057.8	1067.9
57.5°	1280.4	1260.6	1199.7	1111.4	1039.2	1053.9	1041.6	1063.0	1141.7	1213.9	1233.1
60°	1420.0	1432.4	1388.5	1288.8	1180.1	1175.1	1185.1	1225.6	1282.1	1327.1	1353.6
62.5°	1633.6	1621.7	1568.3	1482.1	1384.0	1389.6	1346.3	1377.8	1411.1	1474.7	1472.4
65°	1729.2	1726.5	1691.6	1646.0	1558.0	1524.9	1482.6	1498.4	1531.0	1565.3	1616.6
67.5°	1790.1	1825.0	1804.8	1791.2	1666.1	1640.2	1548.5	1573.2	1614.3	1658.9	1694.9
69°	1784.6	1821.1	1830.7	1870.1	1705.1	1653.2	1585.1	1592.4	1658.4	1711.4	1739.4
70°	1751.9	1798.5	1799.1	1864.0	1703.4	1695.6	1600.9	1589.6	1669.6	1720.3	1754.6
72.5°	1547.3	1577.8	1599.7	1608.1	1608.8	1696.5	1588.5	1500.0	1569.9	1671.8	1670.7
75°	1196.5	1230.1	1275.2	1260.1	1385.1	1540.1	1436.4	1283.7	1292.2	1348.4	1362.0
77.5°	753.0	756.6	815.1	861.8	1067.5	1227.4	1122.6	914.2	818.4	820.2	852.2
80°	430.4	431.5	464.2	512.7	656.8	842.2	691.8	514.9	402.7	397.1	393.7
82.5°	205.6	201.1	213.4	253.0	340.7	425.3	345.8	196.5	157.2	173.0	175.2
85°	73.8	87.3	99.2	113.2	156.6	163.9	121.7	100.8	103.7	97.5	100.3
87.5°	46.3	47.3	56.4	60.8	65.3	68.1	76.0	68.1	69.3	57.4	54.1
90°	32.7	33.2	40.6	41.7	45.0	45.6	43.9	43.9	42.2	33.2	34.3
92.5°	25.3	24.9	31.5	35.6	38.8	36.7	38.3	33.2	32.1	24.3	23.6
95°	31.5	31.5	34.3	36.0	32.1	26.9	31.0	29.9	28.7	21.4	20.8
97.5°	18.1	19.1	26.0	27.6	26.9	22.0	26.5	26.9	26.0	18.5	15.8
100°	15.8	17.4	23.0	24.9	23.6	18.5	23.6	24.9	23.0	16.3	14.6
102.5°	14.1	15.2	19.1	21.4	19.1	14.1	19.1	20.8	19.1	13.6	12.3
105°	11.9	12.3	13.6	15.8	13.6	10.7	14.1	15.2	12.3	10.7	10.2
107.5°	10.2	10.2	9.6	10.7	9.6	8.4	10.2	10.7	9.1	9.1	9.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	9.6	9.1	7.4	7.4	7.4	6.7	7.4	7.8	7.4	8.4	8.4
112.5°	8.4	7.8	6.2	5.6	5.6	5.6	6.2	6.2	6.2	7.8	7.8
115°	7.8	7.4	5.6	4.5	5.1	5.1	5.1	5.1	5.6	7.4	7.8
117.5°	7.8	7.4	5.1	4.5	4.0	4.0	4.5	4.5	5.6	7.4	7.4
120°	7.4	6.7	5.1	4.0	3.4	3.4	4.0	4.5	5.6	7.4	7.4
122.5°	6.7	6.7	4.5	3.4	3.4	3.4	3.4	4.0	5.1	6.7	6.7
125°	6.2	6.2	4.5	3.4	2.9	2.9	3.4	4.0	5.1	6.7	6.7
127.5°	6.2	5.6	4.5	2.9	2.9	2.9	2.9	3.4	4.5	6.2	6.7
130°	5.6	5.6	4.0	2.9	2.2	2.2	2.9	3.4	4.5	5.6	6.2
132.5°	5.6	5.1	4.0	2.2	2.2	2.2	2.2	2.9	4.0	5.1	5.6
135°	4.5	4.5	3.4	2.2	1.6	1.6	2.2	2.9	3.4	4.5	5.1
137.5°	4.5	4.0	3.4	2.2	1.6	1.6	1.6	2.2	3.4	4.0	4.5
140°	4.0	4.0	2.9	2.2	1.6	1.6	1.6	2.2	2.9	3.4	4.0
142.5°	3.4	3.4	2.9	2.2	1.6	1.1	1.6	1.6	2.2	2.9	2.9
145°	3.4	3.4	2.9	1.6	1.1	1.1	1.1	1.6	2.2	2.2	2.9
147.5°	2.9	2.9	2.2	1.6	1.1	0.5	1.1	1.6	1.6	2.2	2.2
150°	2.2	2.2	1.6	1.1	0.5	0.0	0.5	1.1	1.6	1.6	1.6
152.5°	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1	1.6
155°	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	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

(END OF REPORT)