

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: P266326

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266326
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-AF24-40-D-U-5WQ-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3797.4 lumens
Efficiency: N/A
Efficacy: 94.9 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): 40
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

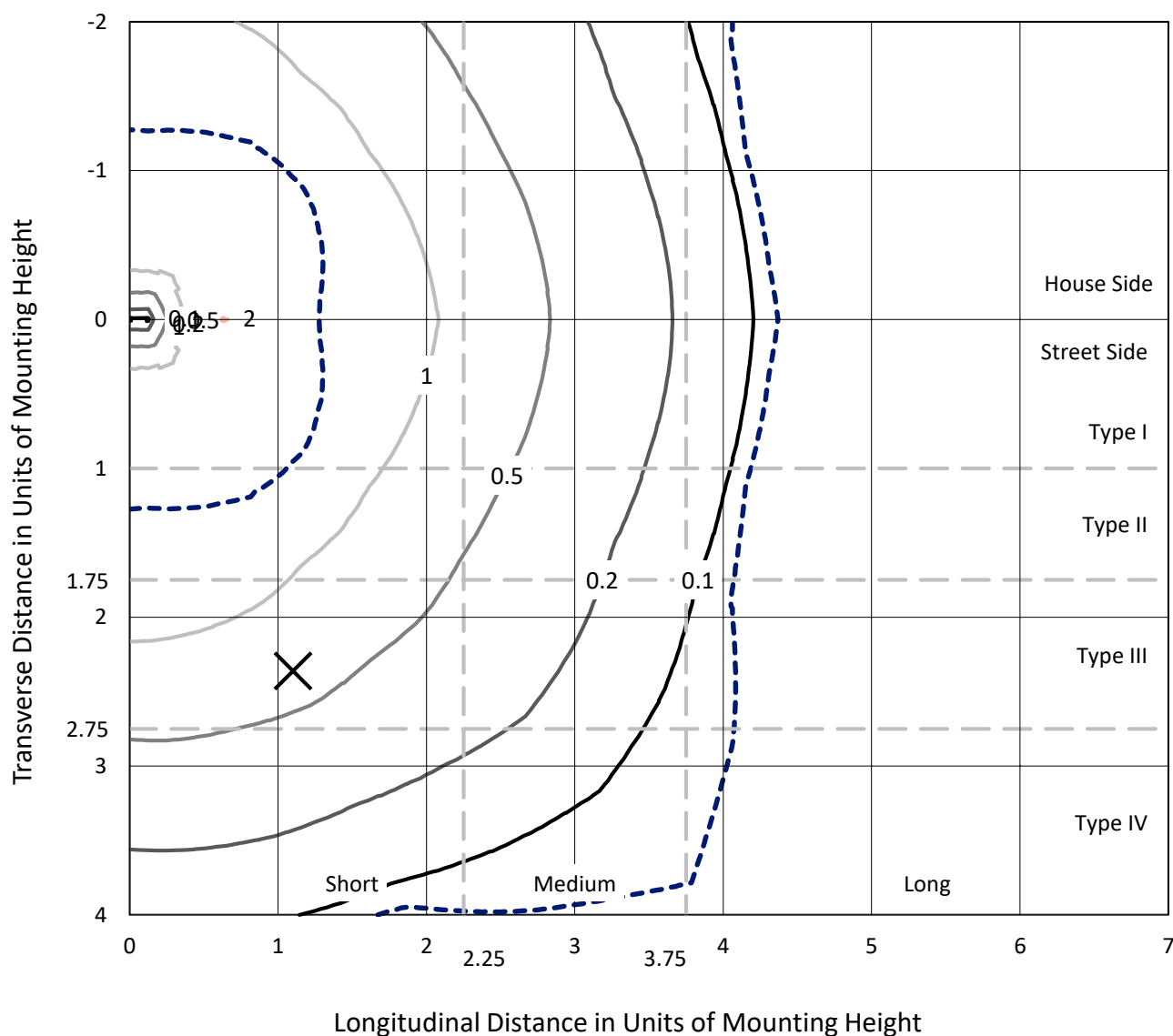


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

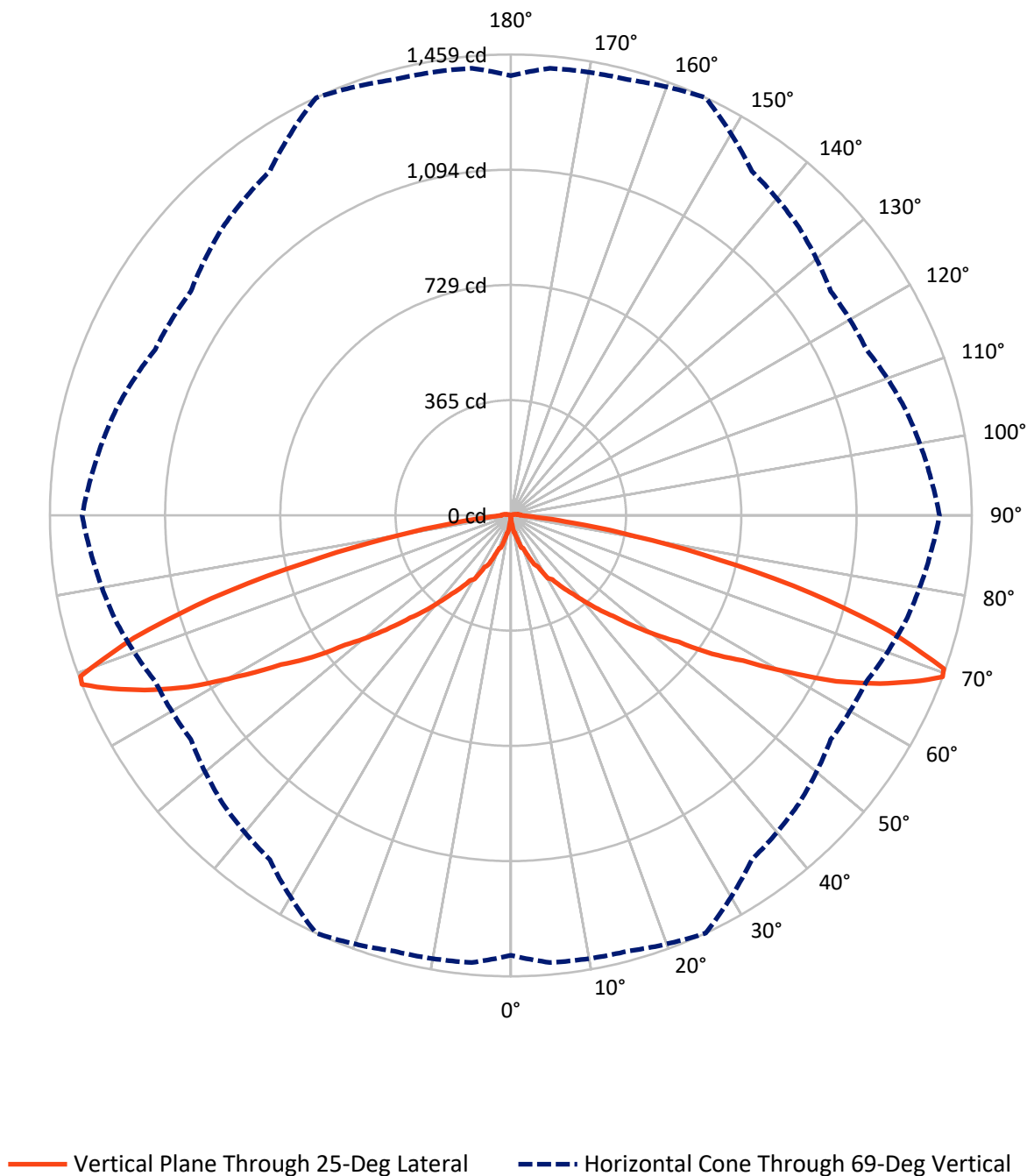


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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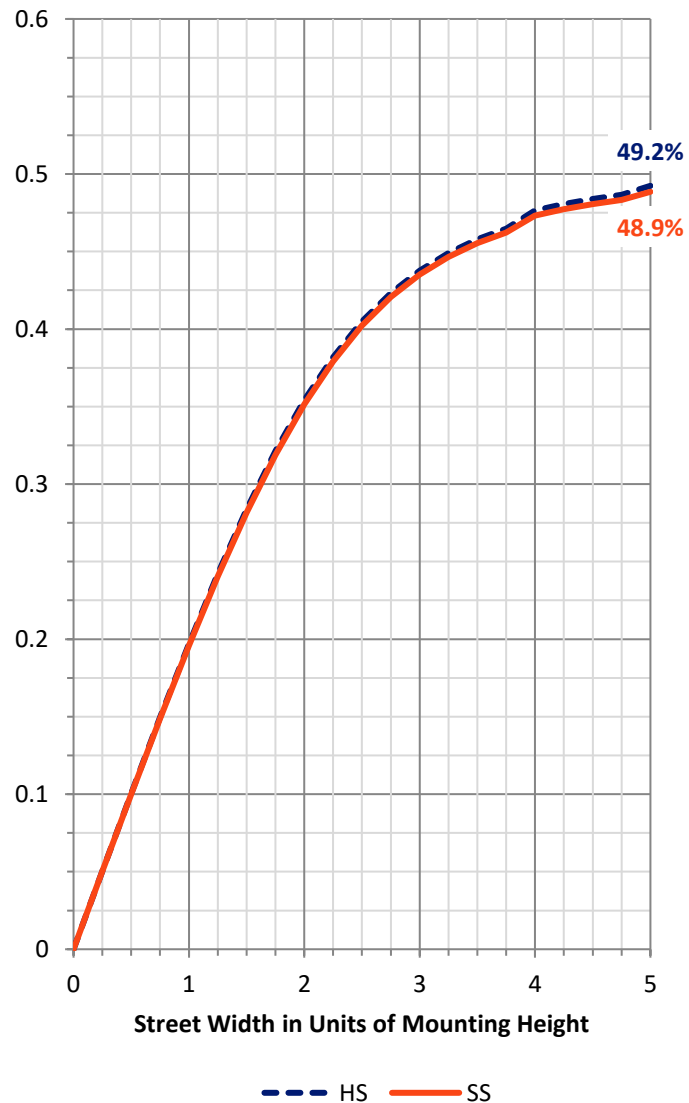
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.0	23.7	1898.7
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1875.0	23.7	1898.7
	% Fixture	49.4	0.6	50.0
Total	Lumens	3750.1	47.3	3797.4
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	22.4	0.6
20°-30°	83.5	2.2
30°-40°	189.4	5.0
40°-50°	363.2	9.6
50°-60°	700.7	18.5
60°-70°	1205.4	31.7
70°-80°	1028.9	27.1
80°-90°	154.5	4.1
90°-100°	25.3	0.7
100°-110°	11.5	0.3
110°-120°	4.6	0.1
120°-130°	3.0	0.1
130°-140°	1.8	0.0
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3750.1	98.8
0°-180°	3797.4	100.0

Coefficient of Utilization



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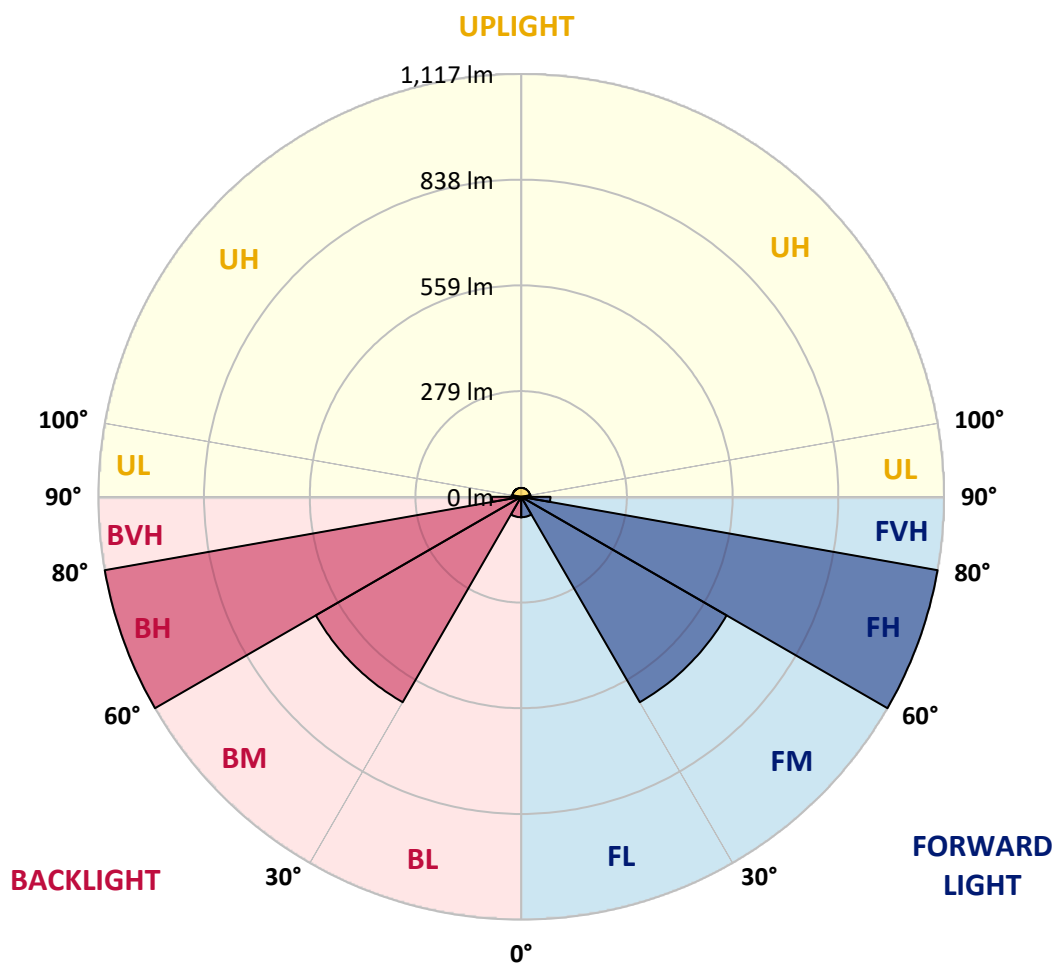
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.0	1.4			
FM	(30°-60°)	626.7	16.5			
FH	(60°-80°)	1117.1	29.4			G1/1800
FVH	(80°-90°)	77.3	2.0			G1/100
BL	(0°-30°)	54.0	1.4	B0/110		
BM	(30°-60°)	626.7	16.5	B1/1000		
BH	(60°-80°)	1117.1	29.4	B3/2500		G1/1800
BVH	(80°-90°)	77.3	2.0			G1/100
UL	(90°-100°)	25.3	0.7		U2/50	
UH	(100°-180°)	23.7	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°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	17.2	17.2	17.2	16.3	16.3	18.1	12.2	9.6	9.3	7.9	7.9
5°	19.4	19.8	18.4	17.5	17.2	18.1	18.4	17.2	10.5	8.4	7.5
7.5°	32.5	35.2	32.1	28.6	27.3	19.0	16.7	18.4	14.1	8.9	8.4
10°	57.1	56.8	58.0	54.1	39.0	30.4	25.1	17.2	20.7	15.8	14.9
12.5°	58.0	57.1	57.5	57.5	55.9	50.0	36.6	40.0	43.1	46.2	44.3
15°	101.1	99.4	90.5	78.2	55.9	68.1	69.0	71.1	64.1	61.5	60.1
17.5°	114.3	112.9	111.2	106.8	97.0	85.2	83.9	83.9	94.5	106.8	99.7
20°	126.5	123.8	112.1	110.3	119.0	107.2	103.2	125.3	135.4	145.9	141.9
22.5°	177.5	182.7	178.9	138.0	128.7	128.7	143.6	149.4	150.2	155.0	151.5
25°	181.8	184.5	180.1	171.3	162.6	150.2	160.3	166.9	193.8	203.5	201.2
27.5°	231.6	233.3	210.1	184.2	185.9	179.8	180.6	205.6	230.2	232.0	241.6
30°	249.5	251.7	240.3	230.7	204.8	204.4	214.4	231.6	260.6	281.7	298.7
32.5°	305.9	296.1	264.9	242.5	231.1	227.6	235.5	268.1	299.7	317.2	338.3
35°	337.5	341.9	335.2	278.1	252.2	265.4	267.2	280.4	309.3	340.1	352.3
37.5°	388.0	389.2	345.8	311.2	277.2	299.7	309.3	309.7	347.1	383.5	393.6
40°	420.4	432.9	404.6	355.5	308.8	322.9	324.6	362.0	396.8	420.4	436.2
42.5°	468.8	468.3	438.6	405.6	345.4	358.6	366.5	380.5	437.1	465.7	481.6
45°	521.9	521.0	494.2	454.4	401.6	389.2	401.2	441.2	501.8	525.5	517.7
47.5°	588.7	592.7	565.9	520.7	451.3	473.1	457.9	511.9	533.9	564.1	584.0
50°	657.7	661.7	628.8	592.3	518.1	519.8	527.2	569.4	604.2	652.1	673.1
52.5°	749.5	753.0	720.6	665.3	606.7	612.6	609.4	631.4	695.6	745.2	737.7
55°	850.2	848.9	809.4	773.4	722.3	703.1	691.2	748.6	786.9	825.2	833.1
57.5°	998.7	983.4	935.9	867.0	810.7	822.0	812.4	829.1	890.6	946.9	961.8
60°	1107.7	1117.3	1083.0	1005.4	920.6	916.6	924.4	956.1	1000.1	1035.1	1055.9
62.5°	1274.2	1265.1	1223.2	1155.9	1079.6	1084.0	1050.1	1074.7	1100.7	1150.3	1148.6
65°	1349.0	1346.6	1319.5	1283.9	1215.3	1189.4	1156.5	1168.8	1194.2	1221.1	1261.0
67.5°	1396.3	1423.6	1407.9	1397.3	1299.7	1279.5	1208.0	1227.3	1259.2	1294.0	1322.1
69°	1392.0	1420.5	1427.9	1458.8	1330.0	1289.5	1236.4	1242.1	1293.6	1334.8	1356.8
70°	1366.5	1403.0	1403.4	1453.9	1328.8	1322.6	1248.7	1239.9	1302.4	1341.9	1368.7
72.5°	1207.1	1230.7	1247.8	1254.5	1254.9	1323.5	1239.0	1170.1	1224.6	1304.1	1303.3
75°	933.2	959.6	994.8	982.9	1080.4	1201.3	1120.5	1001.4	1008.0	1051.8	1062.4
77.5°	587.4	590.0	635.8	672.2	832.5	957.5	875.7	713.2	638.4	639.8	664.7
80°	335.6	336.5	362.0	399.8	512.4	656.9	539.5	401.6	314.1	309.7	307.1
82.5°	160.3	156.8	166.5	197.3	265.8	331.7	269.9	153.3	122.6	134.8	136.6
85°	57.5	68.1	77.3	88.4	122.2	127.9	95.0	78.6	80.8	75.9	78.2
87.5°	36.0	36.9	43.9	47.4	50.9	53.2	59.3	53.2	54.1	44.8	42.2
90°	25.5	26.0	31.6	32.5	35.2	35.7	34.2	34.2	33.0	26.0	26.8
92.5°	19.8	19.4	24.7	27.7	30.4	28.6	29.9	26.0	25.1	19.0	18.4
95°	24.7	24.7	26.8	28.1	25.1	21.1	24.2	23.3	22.4	16.7	16.3
97.5°	14.1	14.9	20.2	21.5	21.1	17.2	20.7	21.1	20.2	14.6	12.2
100°	12.2	13.7	18.1	19.4	18.4	14.6	18.4	19.4	18.1	12.8	11.4
102.5°	11.0	11.9	14.9	16.7	14.9	11.0	14.9	16.3	14.9	10.5	9.6
105°	9.3	9.6	10.5	12.2	10.5	8.4	11.0	11.9	9.6	8.4	7.9
107.5°	7.9	7.9	7.5	8.4	7.5	6.6	7.9	8.4	7.0	7.0	7.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	7.5	7.0	5.7	5.7	5.7	5.3	5.7	6.2	5.7	6.6	6.6
112.5°	6.6	6.2	4.9	4.4	4.4	4.4	4.9	4.9	4.9	6.2	6.2
115°	6.2	5.7	4.4	3.6	4.0	4.0	4.0	4.0	4.4	5.7	6.2
117.5°	6.2	5.7	4.0	3.6	3.1	3.1	3.6	3.6	4.4	5.7	5.7
120°	5.7	5.3	4.0	3.1	2.6	2.6	3.1	3.6	4.4	5.7	5.7
122.5°	5.3	5.3	3.6	2.6	2.6	2.6	2.6	3.1	4.0	5.3	5.3
125°	4.9	4.9	3.6	2.6	2.2	2.2	2.6	3.1	4.0	5.3	5.3
127.5°	4.9	4.4	3.6	2.2	2.2	2.2	2.2	2.6	3.6	4.9	5.3
130°	4.4	4.4	3.1	2.2	1.7	1.7	2.2	2.6	3.6	4.4	4.9
132.5°	4.4	4.0	3.1	1.7	1.7	1.7	1.7	2.2	3.1	4.0	4.4
135°	3.6	3.6	2.6	1.7	1.3	1.3	1.7	2.2	2.6	3.6	4.0
137.5°	3.6	3.1	2.6	1.7	1.3	1.3	1.3	1.7	2.6	3.1	3.6
140°	3.1	3.1	2.2	1.7	1.3	1.3	1.3	1.7	2.2	2.6	3.1
142.5°	2.6	2.6	2.2	1.7	1.3	0.9	1.3	1.3	1.7	2.2	2.2
145°	2.6	2.6	2.2	1.3	0.9	0.9	0.9	1.3	1.7	1.7	2.2
147.5°	2.2	2.2	1.7	1.3	0.9	0.4	0.9	1.3	1.3	1.7	1.7
150°	1.7	1.7	1.3	0.9	0.4	0.0	0.4	0.9	1.3	1.3	1.3
152.5°	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.4	0.9	0.9	1.3
155°	0.9	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	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)