

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: P240905

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240905
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-AF24-60-D-U-5WQ-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 6298.7 lumens
Efficiency: N/A
Efficacy: 98.4 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 - G2

Input Watts (W): 64
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

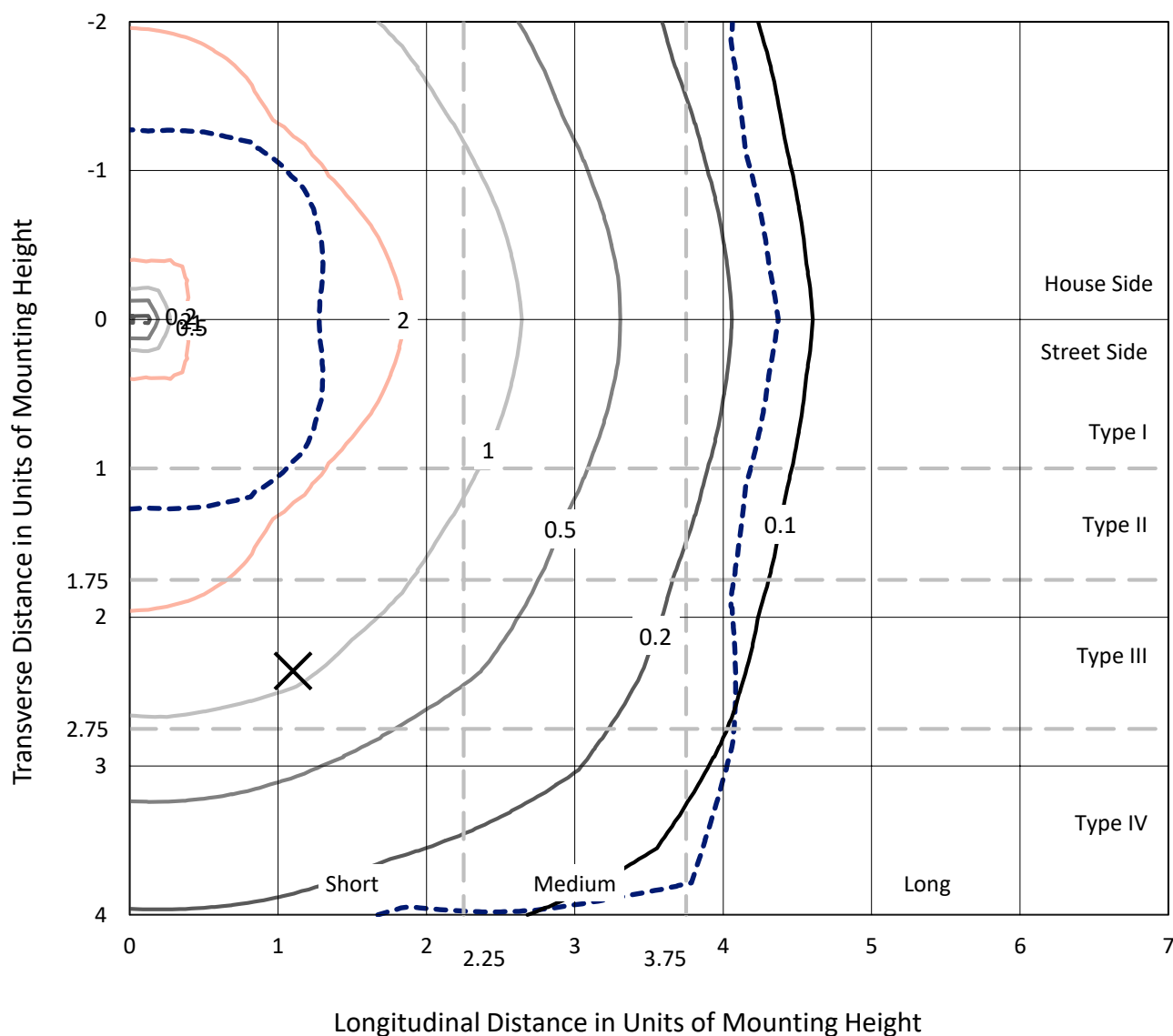


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

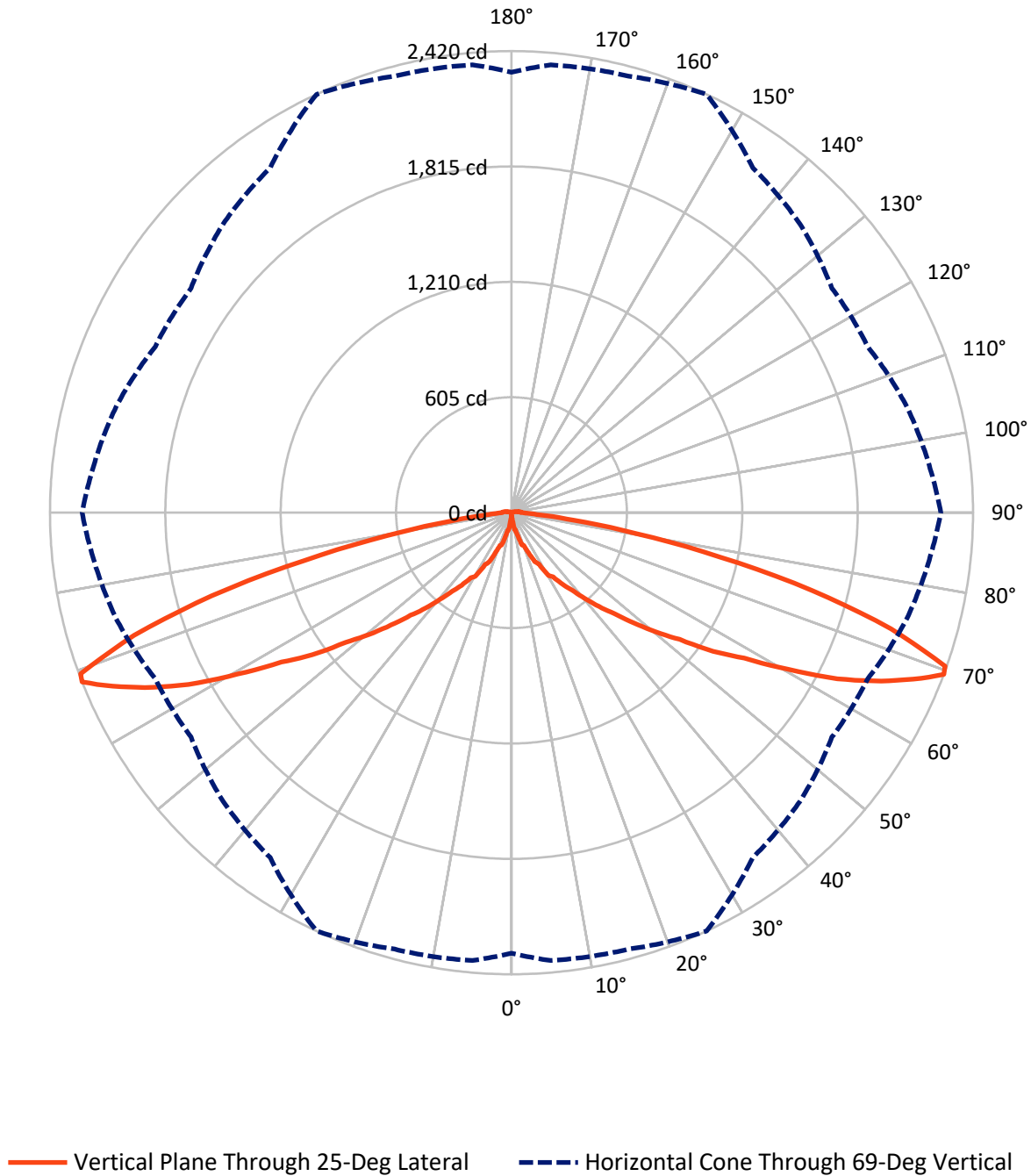


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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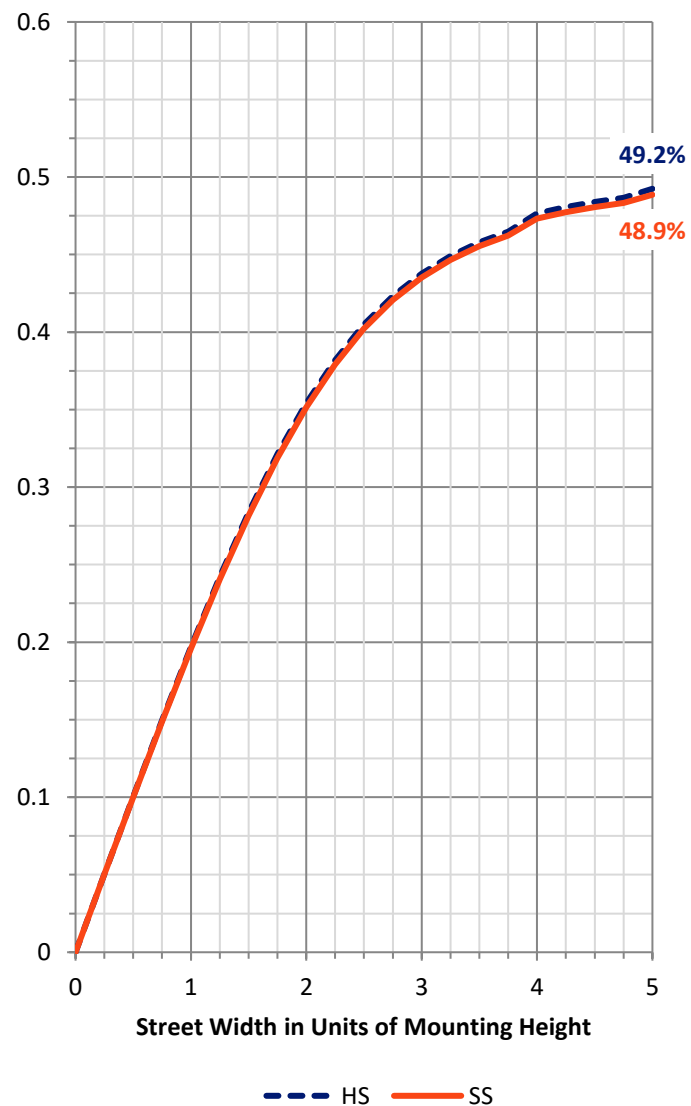
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3110.2	39.2	3149.4
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3110.2	39.2	3149.4
	% Fixture	49.4	0.6	50.0
Total	Lumens	6220.4	78.3	6298.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	37.2	0.6
20°-30°	138.4	2.2
30°-40°	314.2	5.0
40°-50°	602.5	9.6
50°-60°	1162.2	18.5
60°-70°	1999.4	31.7
70°-80°	1706.6	27.1
80°-90°	256.3	4.1
90°-100°	41.9	0.7
100°-110°	19.0	0.3
110°-120°	7.6	0.1
120°-130°	5.0	0.1
130°-140°	3.0	0.0
140°-150°	1.6	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6220.4	98.8
0°-180°	6298.7	100.0

Coefficient of Utilization



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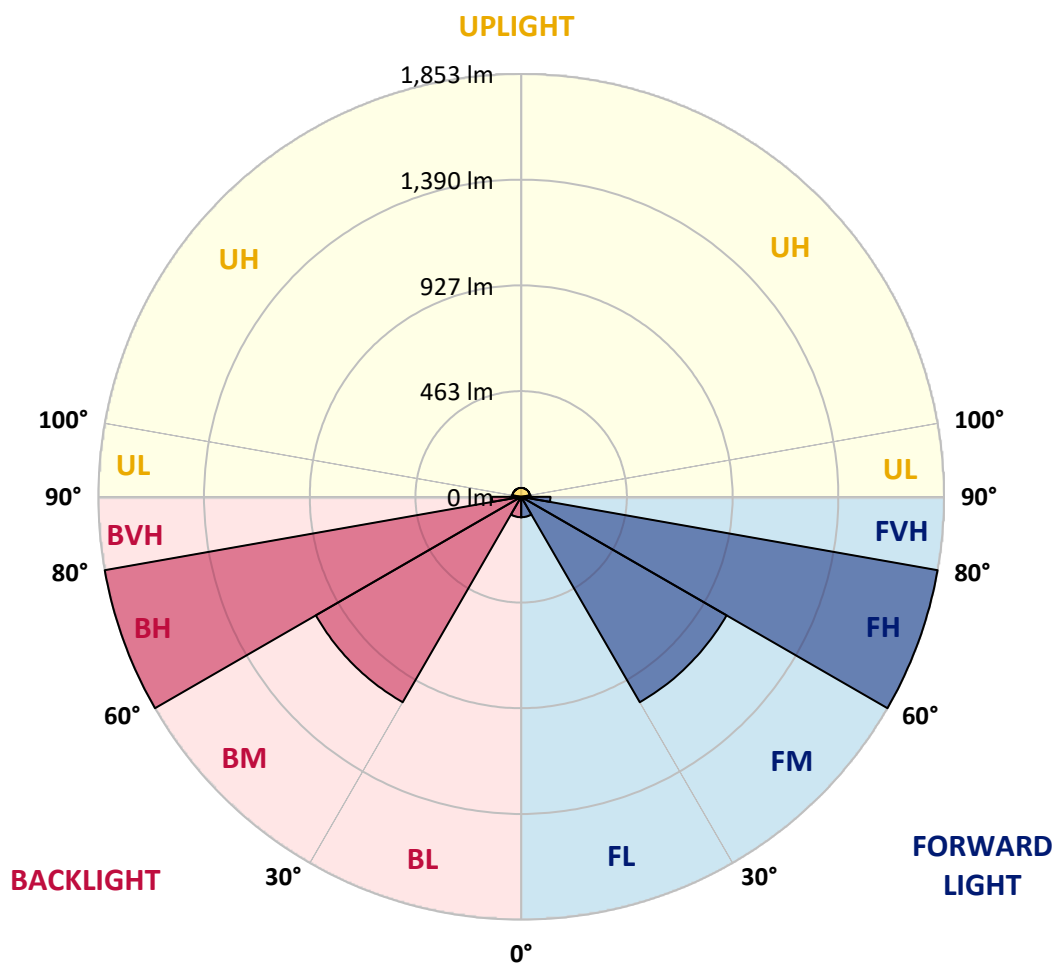
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.5	1.4			
FM	(30°-60°)	1039.5	16.5			
FH	(60°-80°)	1853.0	29.4			G2/5000
FVH	(80°-90°)	128.2	2.0			G2/225
BL	(0°-30°)	89.5	1.4	B0/110		
BM	(30°-60°)	1039.5	16.5	B2/2500		
BH	(60°-80°)	1853.0	29.4	B3/2500		G2/5000
BVH	(80°-90°)	128.2	2.0			G2/225
UL	(90°-100°)	41.9	0.7		U2/50	
UH	(100°-180°)	39.2	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	28.4	28.4	28.4	27.0	27.0	29.8	20.4	16.1	15.3	13.1	13.1
5°	32.1	32.8	30.6	29.2	28.4	29.8	30.6	28.4	17.5	13.8	12.3
7.5°	54.0	58.4	53.2	47.4	45.3	31.3	27.7	30.6	23.3	14.5	13.8
10°	94.7	94.1	96.2	89.6	64.9	50.3	41.5	28.4	34.3	26.2	24.8
12.5°	96.2	94.7	95.5	95.5	92.6	83.0	60.5	66.3	71.4	76.5	73.6
15°	167.6	164.8	150.1	129.7	92.6	113.0	114.4	118.1	106.4	102.0	99.9
17.5°	189.4	187.3	184.4	177.1	161.0	141.4	139.2	139.2	156.7	177.1	165.4
20°	209.9	205.5	185.8	182.9	197.5	177.9	171.3	207.7	224.5	242.0	235.5
22.5°	294.5	303.2	296.6	228.9	213.5	213.5	238.3	247.8	249.2	257.3	251.4
25°	301.8	306.2	298.9	284.3	269.7	249.2	266.0	277.0	321.4	337.4	333.8
27.5°	384.0	387.0	348.4	305.4	308.3	298.1	299.6	341.1	381.9	384.8	400.9
30°	414.0	417.6	398.7	382.6	339.6	338.9	355.6	384.0	432.2	467.2	495.6
32.5°	507.3	491.2	439.4	402.3	383.4	377.5	390.6	444.5	497.0	526.2	561.1
35°	559.7	567.0	556.1	461.3	418.4	440.2	443.1	465.0	513.1	564.1	584.5
37.5°	643.5	645.7	573.6	516.0	459.9	497.0	513.1	513.8	575.8	636.2	653.1
40°	697.5	718.0	671.3	589.7	512.3	535.7	538.6	600.6	658.2	697.5	723.8
42.5°	777.7	777.0	727.3	672.7	572.8	594.7	607.8	631.2	725.2	772.6	798.8
45°	865.9	864.4	819.9	753.6	666.2	645.7	665.4	731.7	832.3	871.7	858.6
47.5°	976.7	983.3	938.7	863.7	748.5	784.9	759.5	849.1	885.5	935.8	968.6
50°	1091.1	1097.6	1043.0	982.5	859.4	862.2	874.6	944.5	1002.1	1081.5	1116.5
52.5°	1243.4	1249.2	1195.3	1103.4	1006.5	1016.0	1010.8	1047.4	1153.8	1236.0	1223.7
55°	1410.3	1408.2	1342.5	1282.7	1198.1	1166.2	1146.4	1242.0	1305.3	1368.7	1381.8
57.5°	1656.6	1631.1	1552.3	1438.0	1344.7	1363.7	1347.6	1375.2	1477.3	1570.6	1595.4
60°	1837.4	1853.4	1796.5	1667.6	1526.9	1520.4	1533.5	1585.9	1658.8	1717.1	1751.3
62.5°	2113.6	2098.4	2029.1	1917.5	1790.8	1798.0	1741.9	1782.7	1825.7	1908.1	1905.2
65°	2237.5	2233.8	2188.7	2129.6	2016.0	1972.9	1918.3	1938.7	1981.0	2025.4	2091.8
67.5°	2316.2	2361.4	2335.2	2317.6	2155.9	2122.4	2003.5	2035.6	2088.8	2146.4	2193.1
69°	2308.8	2356.2	2368.6	2419.6	2206.2	2139.1	2050.9	2060.4	2145.7	2214.1	2250.6
70°	2266.7	2327.1	2327.9	2411.7	2204.0	2193.7	2071.3	2056.7	2160.3	2225.8	2270.3
72.5°	2002.0	2041.4	2069.8	2080.9	2081.5	2195.2	2055.2	1940.9	2031.2	2163.2	2161.7
75°	1547.9	1591.8	1650.1	1630.3	1792.2	1992.6	1858.5	1661.0	1671.8	1744.8	1762.3
77.5°	974.5	978.9	1054.6	1115.1	1381.1	1588.1	1452.5	1182.8	1058.9	1061.1	1102.8
80°	556.7	558.4	600.6	663.2	849.8	1089.7	895.0	666.2	521.0	513.8	509.4
82.5°	266.0	260.1	276.2	327.2	441.0	550.2	447.5	254.3	203.3	223.8	226.7
85°	95.5	113.0	128.3	146.5	202.5	212.1	157.5	130.4	134.1	126.0	129.7
87.5°	59.8	61.1	72.8	78.6	84.5	88.2	98.5	88.2	89.6	74.3	69.9
90°	42.3	43.0	52.5	54.0	58.4	59.0	56.9	56.9	54.6	43.0	44.5
92.5°	32.8	32.1	40.9	45.9	50.3	47.4	49.6	43.0	41.5	31.3	30.6
95°	40.9	40.9	44.5	46.7	41.5	35.0	40.1	38.7	37.1	27.7	27.0
97.5°	23.3	24.8	33.6	35.7	35.0	28.4	34.3	35.0	33.6	24.0	20.4
100°	20.4	22.6	29.8	32.1	30.6	24.0	30.6	32.1	29.8	21.1	18.9
102.5°	18.2	19.6	24.8	27.7	24.8	18.2	24.8	27.0	24.8	17.5	16.1
105°	15.3	16.1	17.5	20.4	17.5	13.8	18.2	19.6	16.1	13.8	13.1
107.5°	13.1	13.1	12.3	13.8	12.3	10.9	13.1	13.8	11.7	11.7	11.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	12.3	11.7	9.5	9.5	9.5	8.7	9.5	10.2	9.5	10.9	10.9
112.5°	10.9	10.2	7.9	7.3	7.3	7.3	7.9	7.9	7.9	10.2	10.2
115°	10.2	9.5	7.3	5.8	6.5	6.5	6.5	6.5	7.3	9.5	10.2
117.5°	10.2	9.5	6.5	5.8	5.1	5.1	5.8	5.8	7.3	9.5	9.5
120°	9.5	8.7	6.5	5.1	4.4	4.4	5.1	5.8	7.3	9.5	9.5
122.5°	8.7	8.7	5.8	4.4	4.4	4.4	4.4	5.1	6.5	8.7	8.7
125°	7.9	7.9	5.8	4.4	3.6	3.6	4.4	5.1	6.5	8.7	8.7
127.5°	7.9	7.3	5.8	3.6	3.6	3.6	3.6	4.4	5.8	7.9	8.7
130°	7.3	7.3	5.1	3.6	2.9	2.9	3.6	4.4	5.8	7.3	7.9
132.5°	7.3	6.5	5.1	2.9	2.9	2.9	2.9	3.6	5.1	6.5	7.3
135°	5.8	5.8	4.4	2.9	2.1	2.1	2.9	3.6	4.4	5.8	6.5
137.5°	5.8	5.1	4.4	2.9	2.1	2.1	2.1	2.9	4.4	5.1	5.8
140°	5.1	5.1	3.6	2.9	2.1	2.1	2.1	2.9	3.6	4.4	5.1
142.5°	4.4	4.4	3.6	2.9	2.1	1.4	2.1	2.1	2.9	3.6	3.6
145°	4.4	4.4	3.6	2.1	1.4	1.4	1.4	2.1	2.9	2.9	3.6
147.5°	3.6	3.6	2.9	2.1	1.4	0.8	1.4	2.1	2.1	2.9	2.9
150°	2.9	2.9	2.1	1.4	0.8	0.0	0.8	1.4	2.1	2.1	2.1
152.5°	2.1	2.1	1.4	0.8	0.0	0.0	0.0	0.8	1.4	1.4	2.1
155°	1.4	1.4	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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)