

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: P240914

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240914
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 6662.5 lumens
Efficiency: N/A
Efficacy: 104.1 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

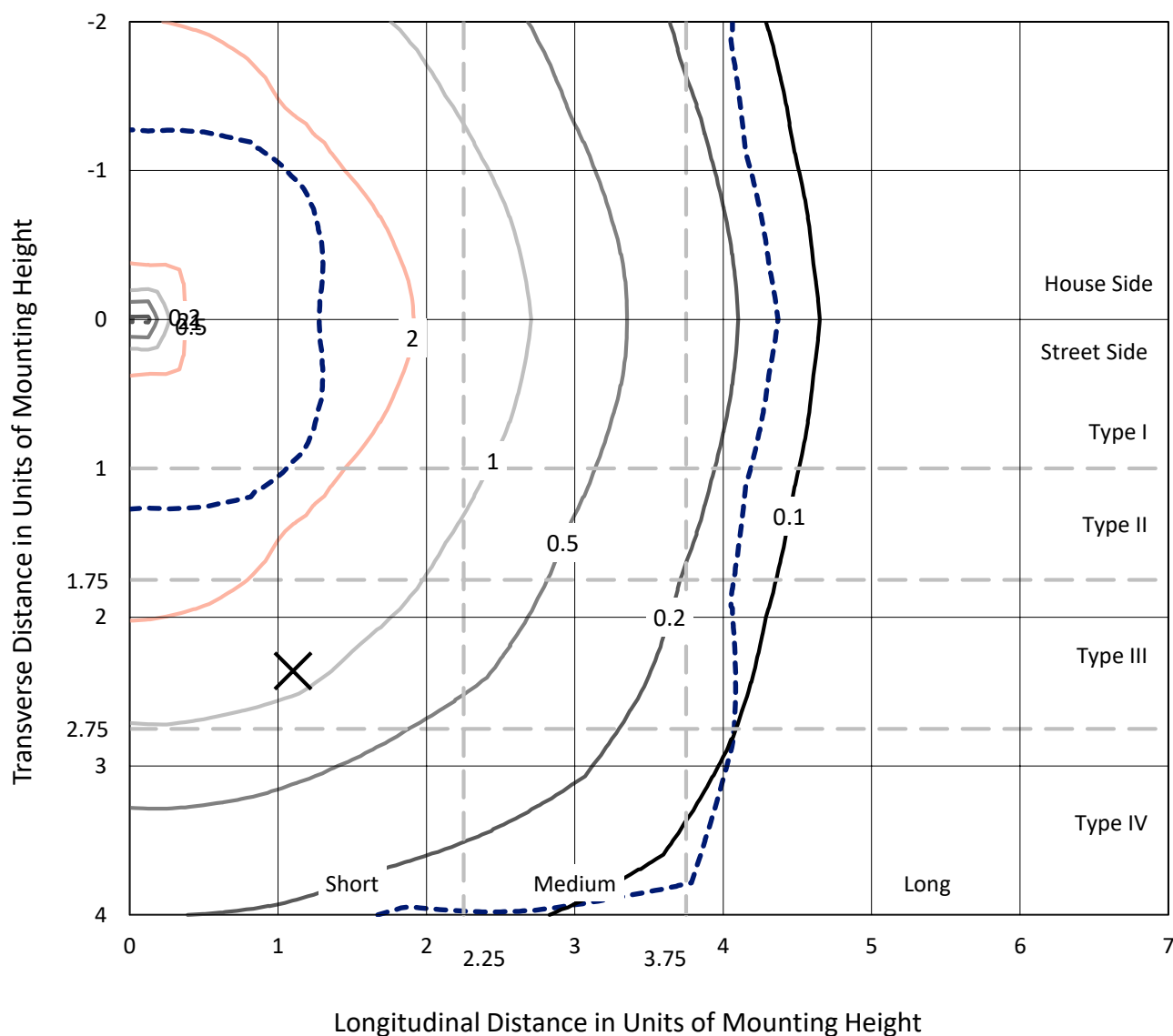


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

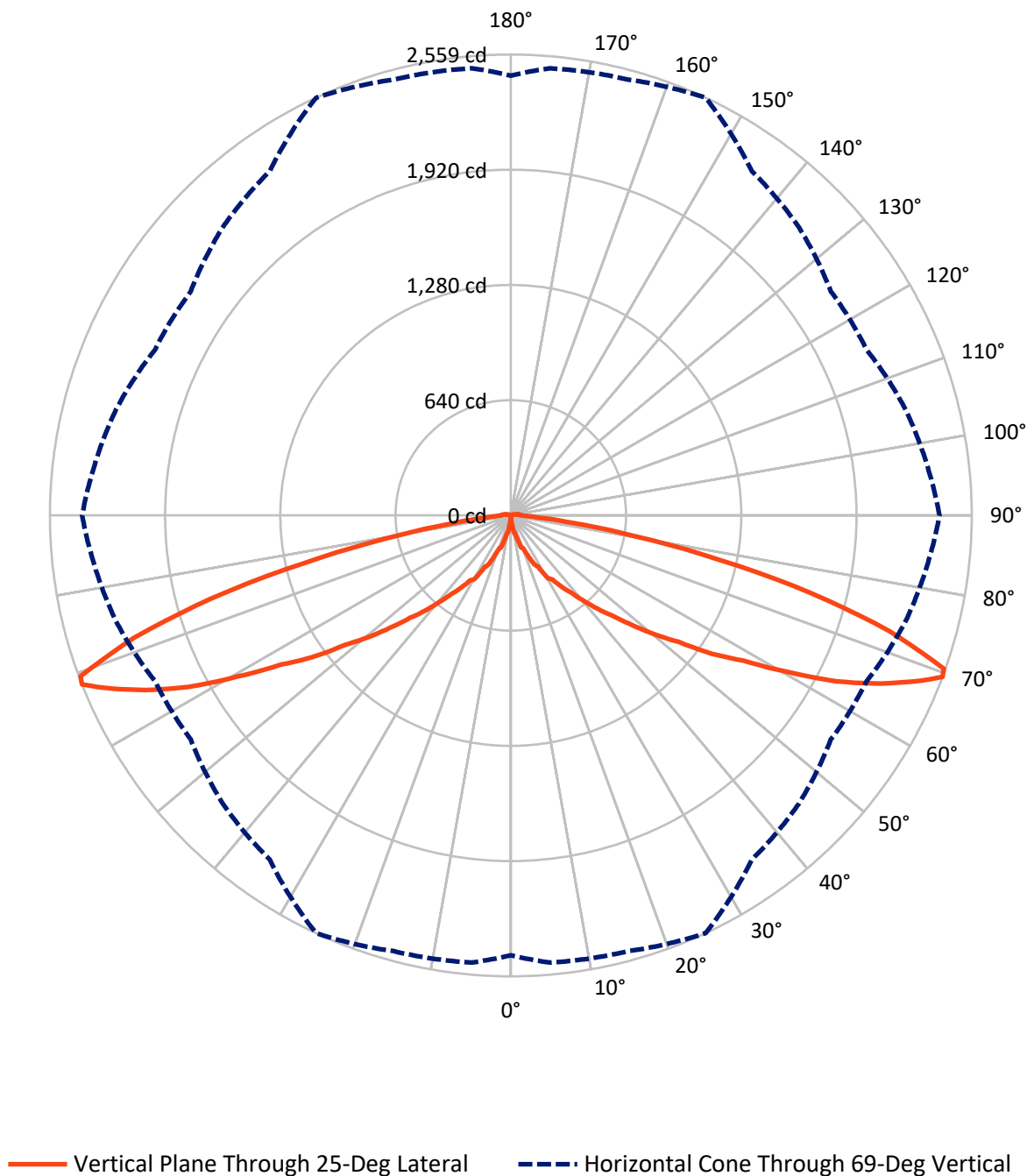


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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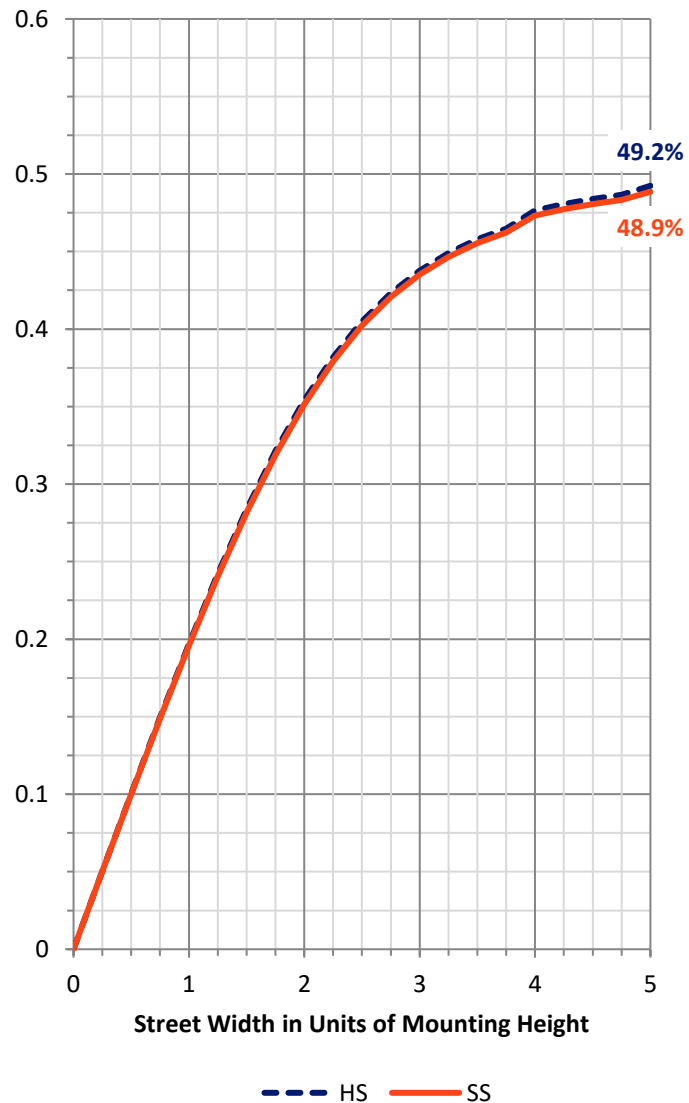
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3289.8	41.5	3331.3
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3289.8	41.5	3331.3
	% Fixture	49.4	0.6	50.0
Total	Lumens	6579.6	83.0	6662.5
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	39.3	0.6
20°-30°	146.4	2.2
30°-40°	332.4	5.0
40°-50°	637.3	9.6
50°-60°	1229.3	18.5
60°-70°	2114.8	31.7
70°-80°	1805.2	27.1
80°-90°	271.1	4.1
90°-100°	44.3	0.7
100°-110°	20.1	0.3
110°-120°	8.0	0.1
120°-130°	5.3	0.1
130°-140°	3.3	0.0
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6579.6	98.8
0°-180°	6662.5	100.0

Coefficient of Utilization



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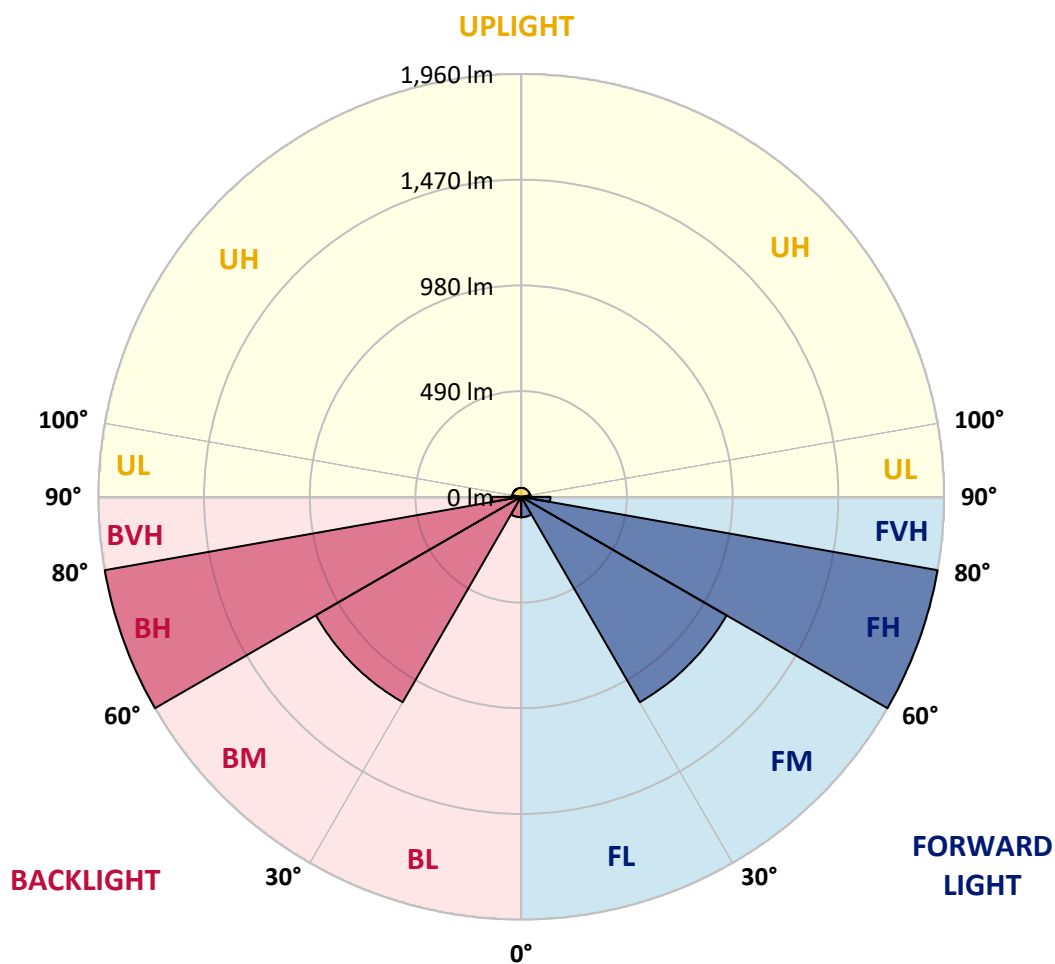
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	94.7	1.4			
FM	(30°-60°)	1099.5	16.5			
FH	(60°-80°)	1960.0	29.4			G2/5000
FVH	(80°-90°)	135.6	2.0			G2/225
BL	(0°-30°)	94.7	1.4	B0/110		
BM	(30°-60°)	1099.5	16.5	B2/2500		
BH	(60°-80°)	1960.0	29.4	B3/2500		G2/5000
BVH	(80°-90°)	135.6	2.0			G2/225
UL	(90°-100°)	44.3	0.7		U2/50	
UH	(100°-180°)	41.5	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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	30.1	30.1	30.1	28.5	28.5	31.6	21.6	17.0	16.2	13.9	13.9
5°	34.0	34.7	32.4	30.8	30.1	31.6	32.4	30.1	18.5	14.6	13.1
7.5°	57.1	61.7	56.3	50.1	47.8	33.1	29.3	32.4	24.7	15.4	14.6
10°	100.2	99.4	101.8	94.8	68.6	53.2	44.0	30.1	36.2	27.7	26.2
12.5°	101.8	100.2	101.0	101.0	97.9	87.9	63.9	70.2	75.6	80.9	77.8
15°	177.3	174.2	158.8	137.2	97.9	119.5	121.0	124.9	112.5	107.9	105.6
17.5°	200.4	198.1	195.1	187.3	170.3	149.6	147.2	147.2	165.7	187.3	175.0
20°	222.0	217.4	196.6	193.5	208.9	188.1	181.2	219.7	237.4	255.9	249.0
22.5°	311.5	320.7	313.7	242.0	225.9	225.9	252.1	262.1	263.6	272.1	266.0
25°	319.2	323.8	316.1	300.6	285.2	263.6	281.4	293.0	339.9	356.9	353.1
27.5°	406.3	409.4	368.5	323.0	326.1	315.3	316.8	360.8	404.0	407.0	424.0
30°	437.9	441.7	421.7	404.7	359.3	358.4	376.2	406.3	457.2	494.2	524.3
32.5°	536.5	519.6	464.8	425.5	405.5	399.4	413.2	470.3	525.8	556.6	593.6
35°	592.1	599.8	588.2	487.9	442.5	465.6	468.7	491.8	542.7	596.7	618.3
37.5°	680.7	683.0	606.7	545.8	486.4	525.8	542.7	543.5	609.1	673.0	690.7
40°	737.8	759.3	710.0	623.7	542.0	566.6	569.7	635.3	696.1	737.8	765.5
42.5°	822.6	821.7	769.4	711.6	605.9	629.0	642.9	667.6	767.0	817.1	845.0
45°	915.8	914.3	867.3	797.1	704.6	683.0	703.8	774.0	880.4	922.0	908.2
47.5°	1033.0	1039.9	992.9	913.5	791.8	830.2	803.3	898.2	936.6	989.8	1024.5
50°	1154.1	1160.9	1103.2	1039.2	908.9	912.0	925.1	999.1	1060.0	1144.1	1181.0
52.5°	1315.2	1321.3	1264.3	1167.2	1064.6	1074.6	1069.3	1107.8	1220.4	1307.4	1294.3
55°	1491.7	1489.4	1420.0	1356.8	1267.3	1233.5	1212.6	1313.7	1380.7	1447.8	1461.6
57.5°	1752.3	1725.3	1642.0	1521.0	1422.3	1442.4	1425.4	1454.7	1562.7	1661.3	1687.6
60°	1943.4	1960.4	1900.2	1763.9	1615.0	1608.1	1622.0	1677.5	1754.6	1816.2	1852.5
62.5°	2235.7	2219.4	2146.2	2028.2	1894.1	1901.9	1842.4	1885.6	1931.1	2018.2	2015.1
65°	2366.7	2362.8	2315.0	2252.5	2132.3	2086.8	2029.0	2050.6	2095.3	2142.4	2212.5
67.5°	2450.0	2497.7	2470.0	2451.5	2280.4	2244.9	2119.2	2153.1	2209.4	2270.3	2319.6
69°	2442.2	2492.3	2505.4	2559.4	2333.6	2262.6	2169.4	2179.4	2269.5	2342.0	2380.5
70°	2397.5	2461.5	2462.2	2550.9	2331.2	2320.5	2191.0	2175.5	2285.0	2354.3	2401.4
72.5°	2117.7	2159.3	2189.4	2201.0	2201.7	2322.0	2174.0	2053.0	2148.5	2288.0	2286.5
75°	1637.4	1683.7	1745.4	1724.5	1895.6	2107.7	1965.8	1756.9	1768.5	1845.5	1864.0
77.5°	1030.7	1035.3	1115.5	1179.5	1460.9	1679.8	1536.4	1251.2	1120.1	1122.5	1166.4
80°	589.0	590.5	635.3	701.5	898.9	1152.5	946.6	704.6	551.2	543.5	538.9
82.5°	281.4	275.2	292.2	346.2	466.4	582.1	473.3	269.0	215.1	236.7	239.8
85°	101.0	119.5	135.6	155.0	214.3	224.3	166.5	138.0	141.9	133.4	137.2
87.5°	63.2	64.8	77.1	83.3	89.4	93.3	104.0	93.3	94.8	78.7	74.0
90°	44.7	45.5	55.5	57.1	61.7	62.4	60.1	60.1	57.8	45.5	47.1
92.5°	34.7	34.0	43.2	48.6	53.2	50.1	52.4	45.5	44.0	33.1	32.4
95°	43.2	43.2	47.1	49.3	44.0	37.0	42.4	40.8	39.3	29.3	28.5
97.5°	24.7	26.2	35.5	37.7	37.0	30.1	36.2	37.0	35.5	25.5	21.6
100°	21.6	23.9	31.6	34.0	32.4	25.5	32.4	34.0	31.6	22.4	20.0
102.5°	19.2	20.8	26.2	29.3	26.2	19.2	26.2	28.5	26.2	18.5	17.0
105°	16.2	17.0	18.5	21.6	18.5	14.6	19.2	20.8	17.0	14.6	13.9
107.5°	13.9	13.9	13.1	14.6	13.1	11.6	13.9	14.6	12.4	12.4	12.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	13.1	12.4	10.0	10.0	10.0	9.2	10.0	10.8	10.0	11.6	11.6
112.5°	11.6	10.8	8.5	7.7	7.7	7.7	8.5	8.5	8.5	10.8	10.8
115°	10.8	10.0	7.7	6.1	7.0	7.0	7.0	7.0	7.7	10.0	10.8
117.5°	10.8	10.0	7.0	6.1	5.4	5.4	6.1	6.1	7.7	10.0	10.0
120°	10.0	9.2	7.0	5.4	4.6	4.6	5.4	6.1	7.7	10.0	10.0
122.5°	9.2	9.2	6.1	4.6	4.6	4.6	4.6	5.4	7.0	9.2	9.2
125°	8.5	8.5	6.1	4.6	3.9	3.9	4.6	5.4	7.0	9.2	9.2
127.5°	8.5	7.7	6.1	3.9	3.9	3.9	3.9	4.6	6.1	8.5	9.2
130°	7.7	7.7	5.4	3.9	3.1	3.1	3.9	4.6	6.1	7.7	8.5
132.5°	7.7	7.0	5.4	3.1	3.1	3.1	3.1	3.9	5.4	7.0	7.7
135°	6.1	6.1	4.6	3.1	2.4	2.4	3.1	3.9	4.6	6.1	7.0
137.5°	6.1	5.4	4.6	3.1	2.4	2.4	2.4	3.1	4.6	5.4	6.1
140°	5.4	5.4	3.9	3.1	2.4	2.4	2.4	3.1	3.9	4.6	5.4
142.5°	4.6	4.6	3.9	3.1	2.4	1.5	2.4	2.4	3.1	3.9	3.9
145°	4.6	4.6	3.9	2.4	1.5	1.5	1.5	2.4	3.1	3.1	3.9
147.5°	3.9	3.9	3.1	2.4	1.5	0.8	1.5	2.4	2.4	3.1	3.1
150°	3.1	3.1	2.4	1.5	0.8	0.0	0.8	1.5	2.4	2.4	2.4
152.5°	2.4	2.4	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5	2.4
155°	1.5	1.5	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)