

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: P240906

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240906
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-AF24-70-D-U-5WQ-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 7048.3 lumens
Efficiency: N/A
Efficacy: 95.2 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 - G2

Input Watts (W): 74
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

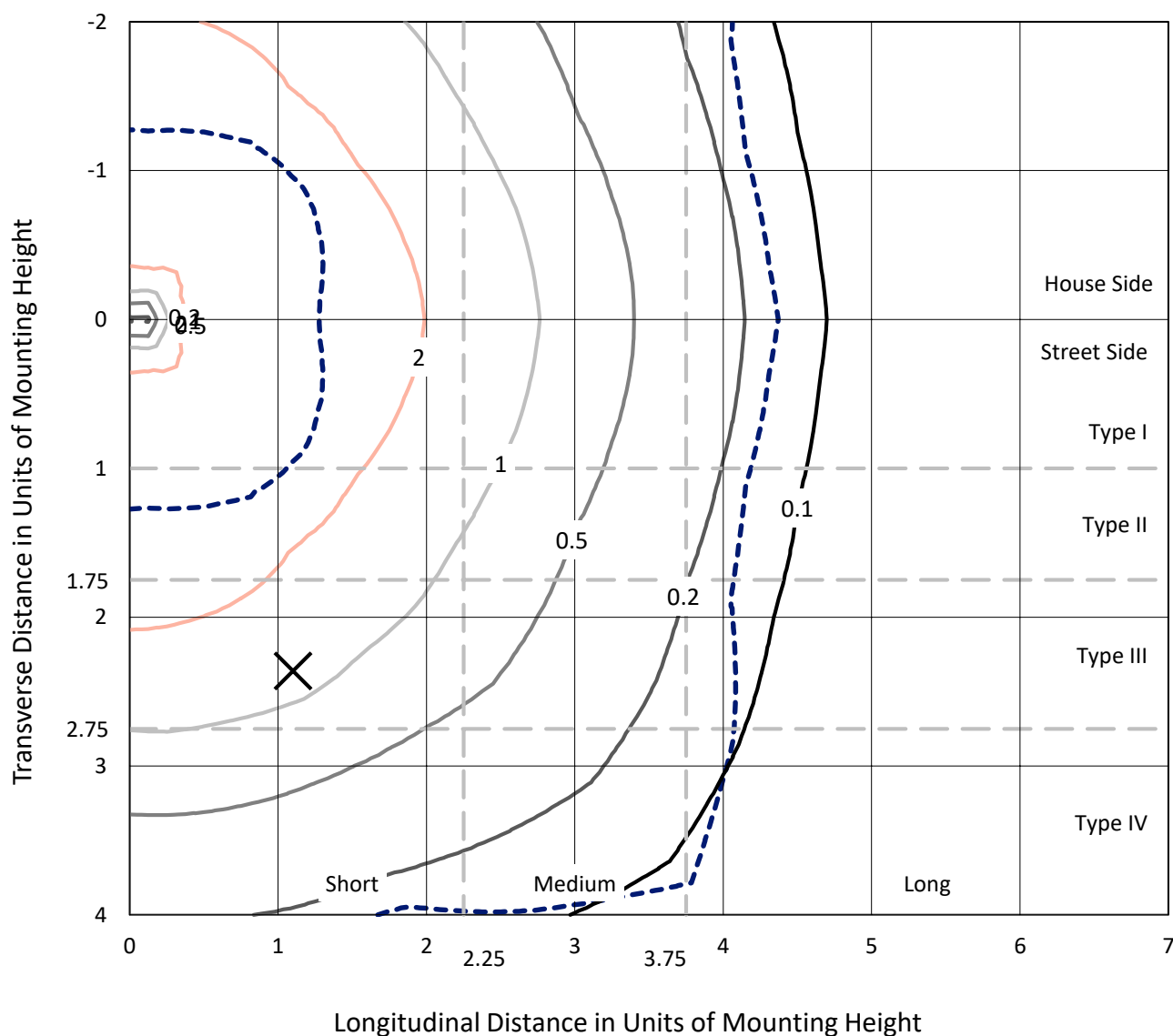


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

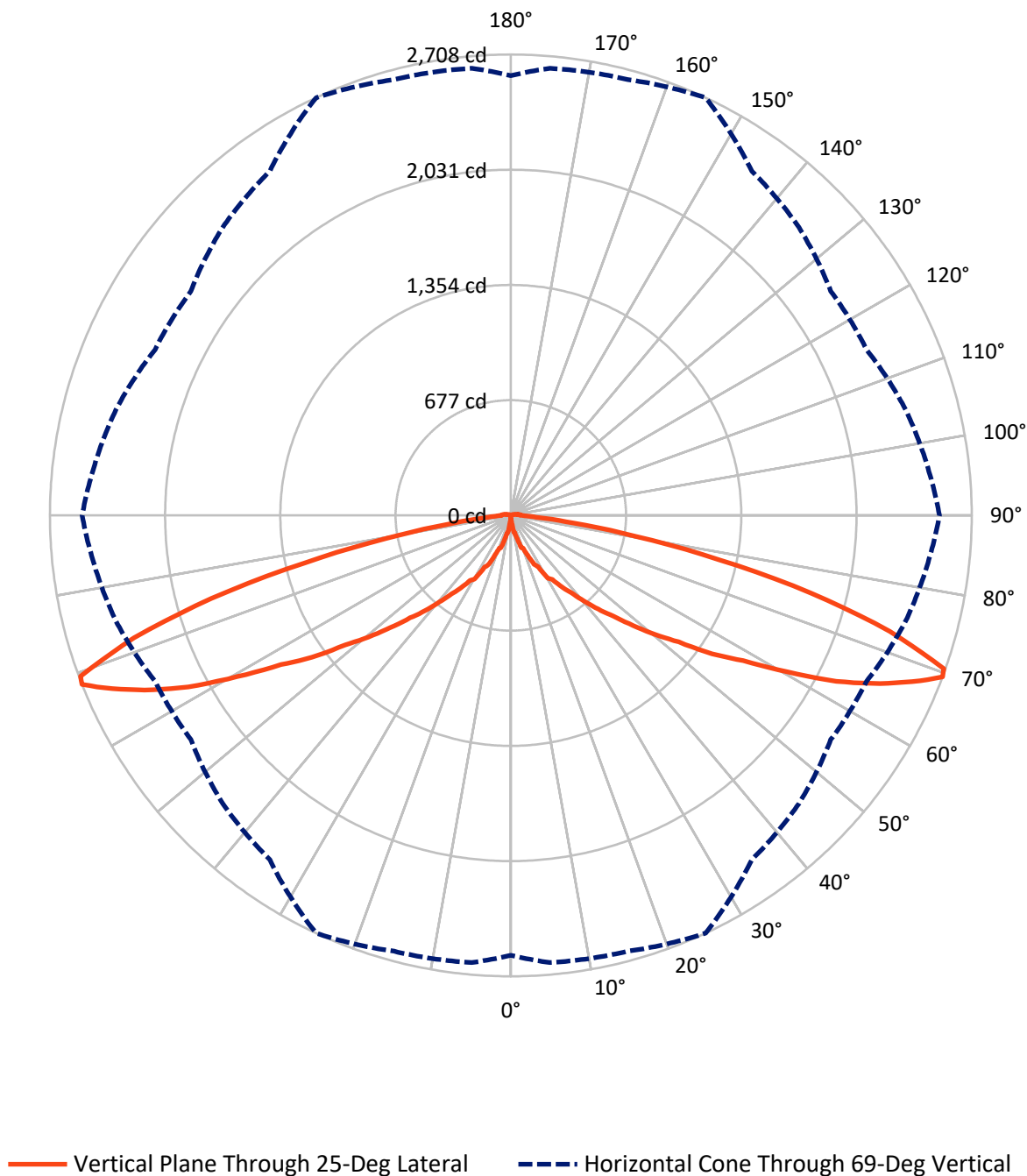


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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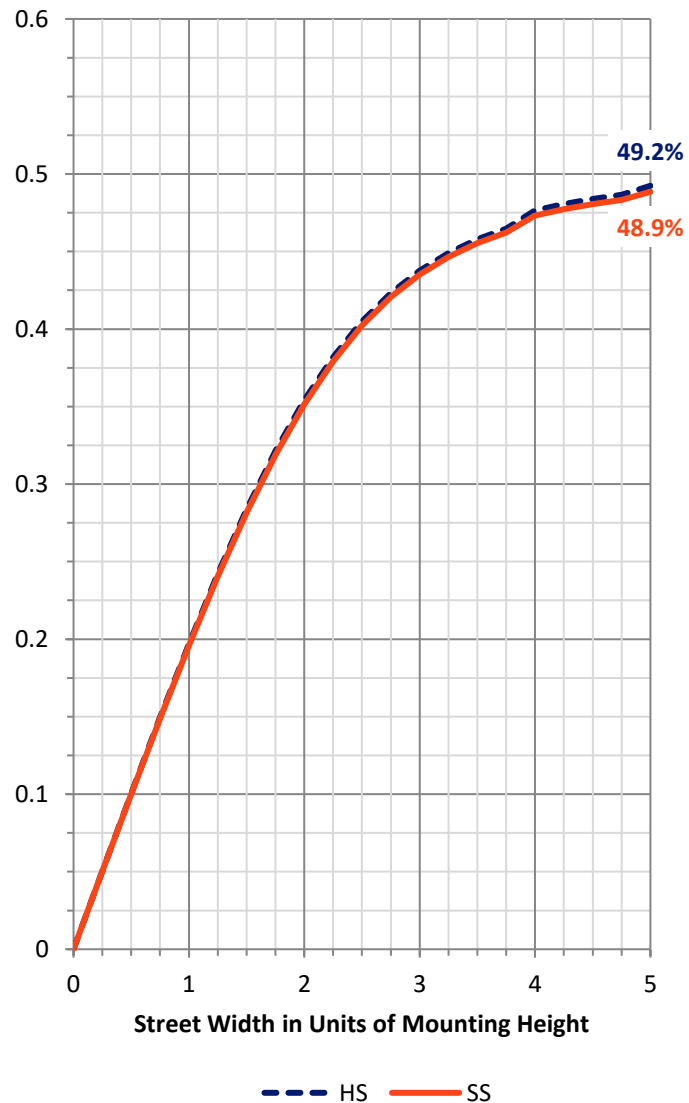
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3480.3	43.9	3524.2
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3480.3	43.9	3524.2
	% Fixture	49.4	0.6	50.0
Total	Lumens	6960.6	87.7	7048.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	41.6	0.6
20°-30°	154.9	2.2
30°-40°	351.6	5.0
40°-50°	674.2	9.6
50°-60°	1300.5	18.5
60°-70°	2237.3	31.7
70°-80°	1909.7	27.1
80°-90°	286.8	4.1
90°-100°	46.9	0.7
100°-110°	21.3	0.3
110°-120°	8.5	0.1
120°-130°	5.6	0.1
130°-140°	3.4	0.0
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6960.6	98.8
0°-180°	7048.3	100.0

Coefficient of Utilization



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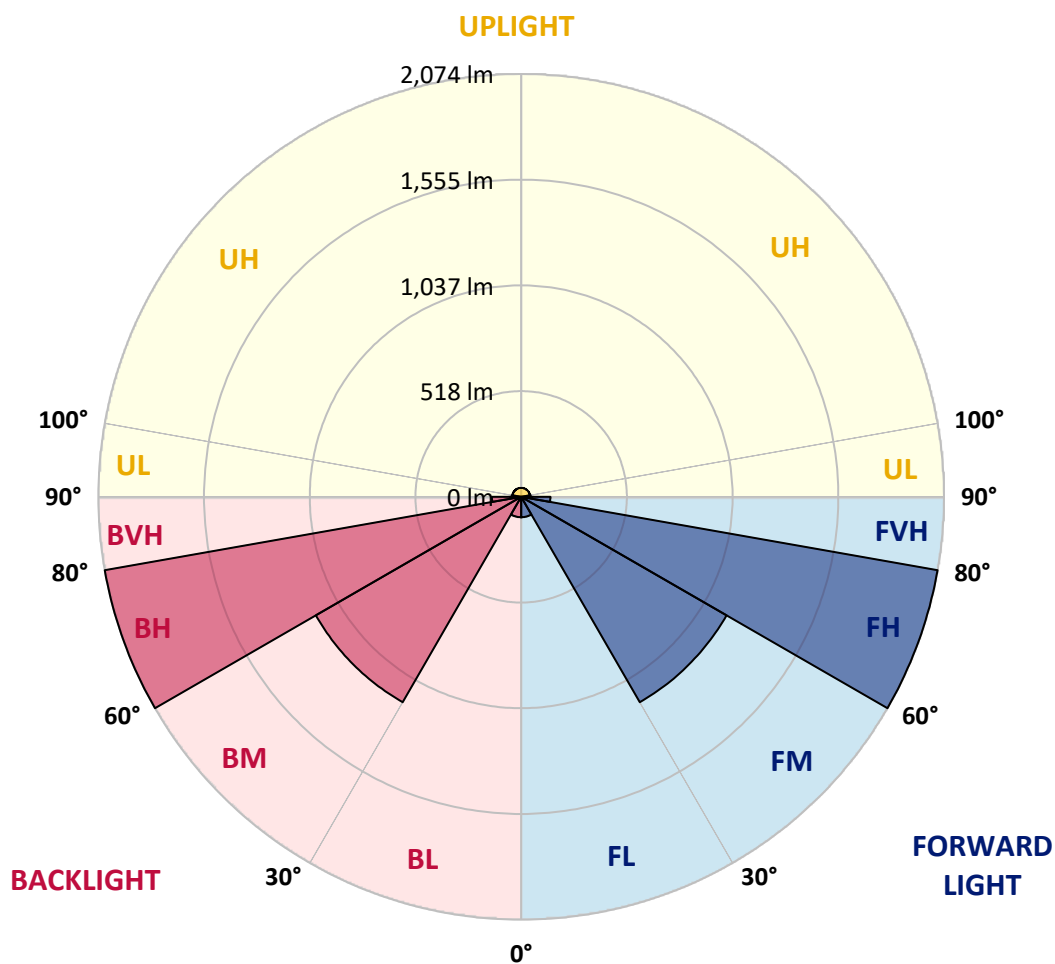
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.2	1.4			
FM	(30°-60°)	1163.2	16.5			
FH	(60°-80°)	2073.5	29.4			G2/5000
FVH	(80°-90°)	143.4	2.0			G2/225
BL	(0°-30°)	100.2	1.4	B0/110		
BM	(30°-60°)	1163.2	16.5	B2/2500		
BH	(60°-80°)	2073.5	29.4	B3/2500		G2/5000
BVH	(80°-90°)	143.4	2.0			G2/225
UL	(90°-100°)	46.9	0.7		U2/50	
UH	(100°-180°)	43.9	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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	31.8	31.8	31.8	30.1	30.1	33.5	22.8	17.9	17.2	14.6	14.6
5°	35.8	36.7	34.3	32.7	31.8	33.5	34.3	31.8	19.5	15.6	13.8
7.5°	60.3	65.2	59.5	53.0	50.6	35.1	31.0	34.3	26.1	16.3	15.6
10°	106.0	105.2	107.6	100.3	72.5	56.3	46.4	31.8	38.4	29.4	27.8
12.5°	107.6	106.0	106.8	106.8	103.6	93.0	67.7	74.2	80.0	85.7	82.4
15°	187.6	184.3	168.0	145.2	103.6	126.4	128.1	132.1	119.1	114.1	111.8
17.5°	212.1	209.6	206.3	198.2	180.3	158.2	155.8	155.8	175.4	198.2	185.0
20°	234.9	230.0	207.9	204.8	221.0	199.0	191.6	232.4	251.2	270.8	263.5
22.5°	329.5	339.2	331.9	256.1	239.0	239.0	266.7	277.3	278.9	287.9	281.4
25°	337.6	342.5	334.4	318.1	301.8	278.9	297.6	309.9	359.7	377.6	373.5
27.5°	429.8	433.1	389.8	341.8	344.9	333.6	335.2	381.7	427.3	430.6	448.5
30°	463.3	467.3	446.1	428.2	380.0	379.2	398.0	429.8	483.6	522.8	554.6
32.5°	567.6	549.7	491.7	450.1	429.0	422.5	437.1	497.4	556.2	588.8	628.0
35°	626.4	634.5	622.2	516.2	468.1	492.5	495.8	520.3	574.1	631.2	654.0
37.5°	720.1	722.5	641.8	577.4	514.6	556.2	574.1	574.9	644.3	712.0	730.7
40°	780.4	803.3	751.1	659.8	573.3	599.4	602.7	672.1	736.4	780.4	809.8
42.5°	870.1	869.3	813.9	752.8	641.1	665.5	680.1	706.3	811.5	864.5	893.8
45°	968.9	967.3	917.4	843.3	745.3	722.5	744.6	818.8	931.3	975.3	960.7
47.5°	1092.8	1100.1	1050.4	966.4	837.6	878.3	849.8	950.1	990.9	1047.1	1083.9
50°	1220.9	1228.2	1167.0	1099.3	961.5	964.8	978.6	1057.0	1121.3	1210.3	1249.4
52.5°	1391.3	1397.9	1337.6	1234.7	1126.3	1136.9	1131.2	1172.0	1291.0	1383.2	1369.3
55°	1578.1	1575.6	1502.2	1435.3	1340.7	1304.9	1282.8	1389.7	1460.7	1531.6	1546.2
57.5°	1853.7	1825.1	1737.1	1609.1	1504.7	1526.0	1508.0	1538.9	1653.1	1757.6	1785.2
60°	2056.0	2074.0	2010.4	1865.9	1708.6	1701.2	1715.9	1774.6	1856.2	1921.5	1959.8
62.5°	2365.1	2348.0	2270.5	2145.8	2003.9	2012.0	1949.1	1994.8	2042.9	2135.2	2131.8
65°	2503.7	2499.7	2449.0	2383.1	2255.7	2207.7	2146.5	2169.4	2216.7	2266.4	2340.7
67.5°	2591.8	2642.4	2613.1	2593.5	2412.5	2374.9	2242.0	2277.8	2337.4	2401.8	2454.0
69°	2583.7	2636.7	2650.5	2707.7	2468.7	2393.7	2295.0	2305.6	2401.0	2477.7	2518.4
70°	2536.4	2604.0	2604.8	2698.7	2466.2	2454.8	2317.8	2301.4	2417.3	2490.7	2540.4
72.5°	2240.4	2284.4	2316.2	2328.5	2329.2	2456.4	2299.8	2171.8	2272.9	2420.5	2418.9
75°	1732.2	1781.2	1846.4	1824.4	2005.5	2229.8	2079.6	1858.6	1870.8	1952.5	1972.0
77.5°	1090.4	1095.4	1180.1	1247.7	1545.5	1777.1	1625.3	1323.6	1185.0	1187.4	1234.0
80°	623.1	624.8	672.1	742.2	950.9	1219.3	1001.5	745.3	583.1	574.9	570.2
82.5°	297.6	291.1	309.1	366.1	493.5	615.7	500.7	284.6	227.6	250.4	253.6
85°	106.8	126.4	143.5	163.9	226.7	237.3	176.1	146.0	150.0	141.1	145.2
87.5°	66.8	68.5	81.5	88.1	94.6	98.7	110.2	98.7	100.3	83.1	78.3
90°	47.3	48.1	58.7	60.3	65.2	66.1	63.6	63.6	61.1	48.1	49.7
92.5°	36.7	35.8	45.7	51.4	56.3	53.0	55.5	48.1	46.4	35.1	34.3
95°	45.7	45.7	49.7	52.2	46.4	39.2	44.9	43.2	41.6	31.0	30.1
97.5°	26.1	27.8	37.4	40.0	39.2	31.8	38.4	39.2	37.4	26.9	22.8
100°	22.8	25.2	33.5	35.8	34.3	26.9	34.3	35.8	33.5	23.6	21.2
102.5°	20.4	22.1	27.8	31.0	27.8	20.4	27.8	30.1	27.8	19.5	17.9
105°	17.2	17.9	19.5	22.8	19.5	15.6	20.4	22.1	17.9	15.6	14.6
107.5°	14.6	14.6	13.8	15.6	13.8	12.2	14.6	15.6	13.0	13.0	13.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	13.8	13.0	10.6	10.6	10.6	9.9	10.6	11.5	10.6	12.2	12.2
112.5°	12.2	11.5	9.0	8.2	8.2	8.2	9.0	9.0	9.0	11.5	11.5
115°	11.5	10.6	8.2	6.5	7.3	7.3	7.3	7.3	8.2	10.6	11.5
117.5°	11.5	10.6	7.3	6.5	5.7	5.7	6.5	6.5	8.2	10.6	10.6
120°	10.6	9.9	7.3	5.7	4.9	4.9	5.7	6.5	8.2	10.6	10.6
122.5°	9.9	9.9	6.5	4.9	4.9	4.9	4.9	5.7	7.3	9.9	9.9
125°	9.0	9.0	6.5	4.9	4.1	4.1	4.9	5.7	7.3	9.9	9.9
127.5°	9.0	8.2	6.5	4.1	4.1	4.1	4.1	4.9	6.5	9.0	9.9
130°	8.2	8.2	5.7	4.1	3.3	3.3	4.1	4.9	6.5	8.2	9.0
132.5°	8.2	7.3	5.7	3.3	3.3	3.3	3.3	4.1	5.7	7.3	8.2
135°	6.5	6.5	4.9	3.3	2.4	2.4	3.3	4.1	4.9	6.5	7.3
137.5°	6.5	5.7	4.9	3.3	2.4	2.4	2.4	3.3	4.9	5.7	6.5
140°	5.7	5.7	4.1	3.3	2.4	2.4	2.4	3.3	4.1	4.9	5.7
142.5°	4.9	4.9	4.1	3.3	2.4	1.6	2.4	2.4	3.3	4.1	4.1
145°	4.9	4.9	4.1	2.4	1.6	1.6	1.6	2.4	3.3	3.3	4.1
147.5°	4.1	4.1	3.3	2.4	1.6	0.8	1.6	2.4	2.4	3.3	3.3
150°	3.3	3.3	2.4	1.6	0.8	0.0	0.8	1.6	2.4	2.4	2.4
152.5°	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.8	1.6	1.6	2.4
155°	1.6	1.6	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)