

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: P266496

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266496
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-AF24-90-D-U-5WQ-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 7492.5 lumens
Efficiency: N/A
Efficacy: 79.7 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): 94
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



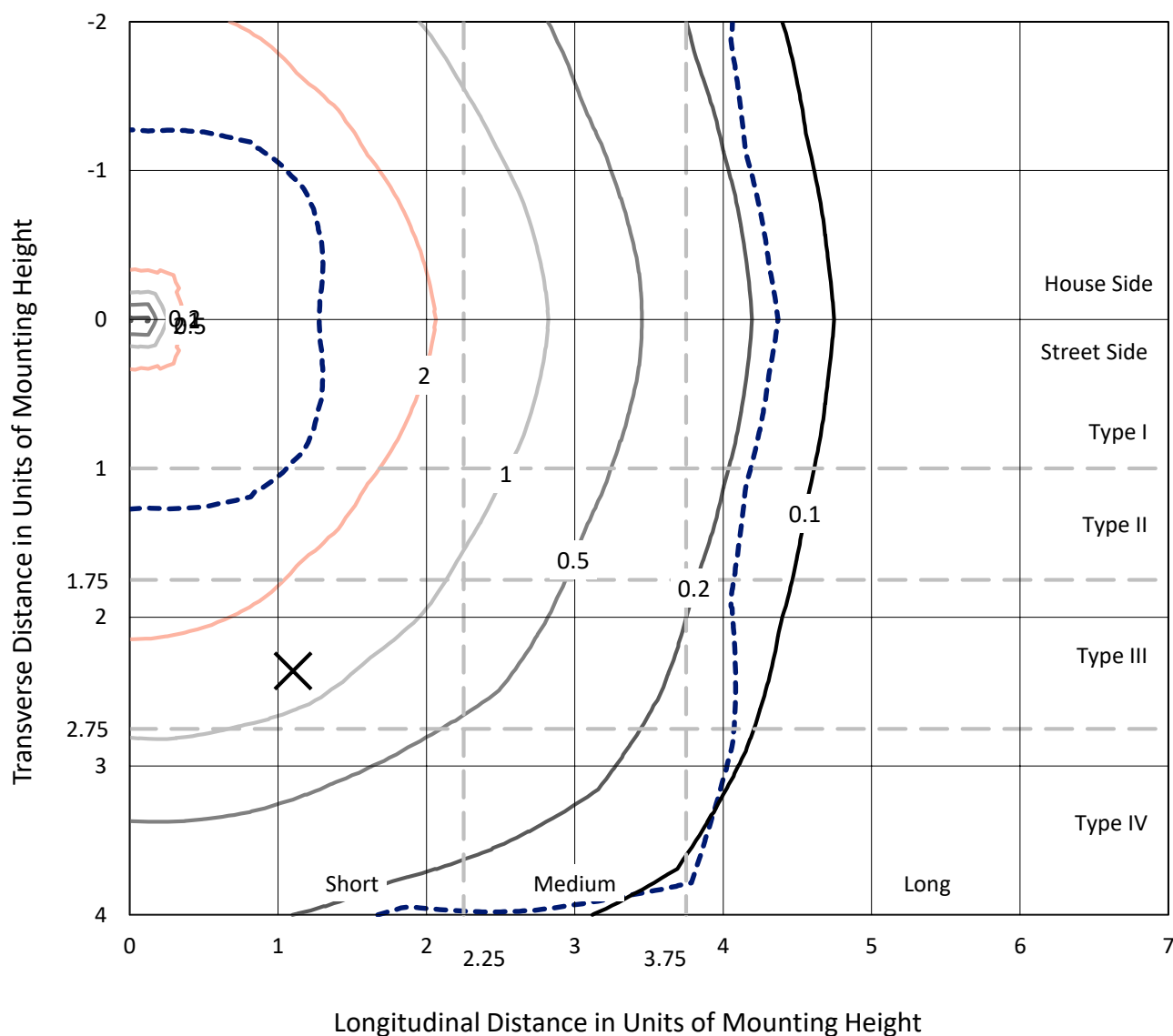
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

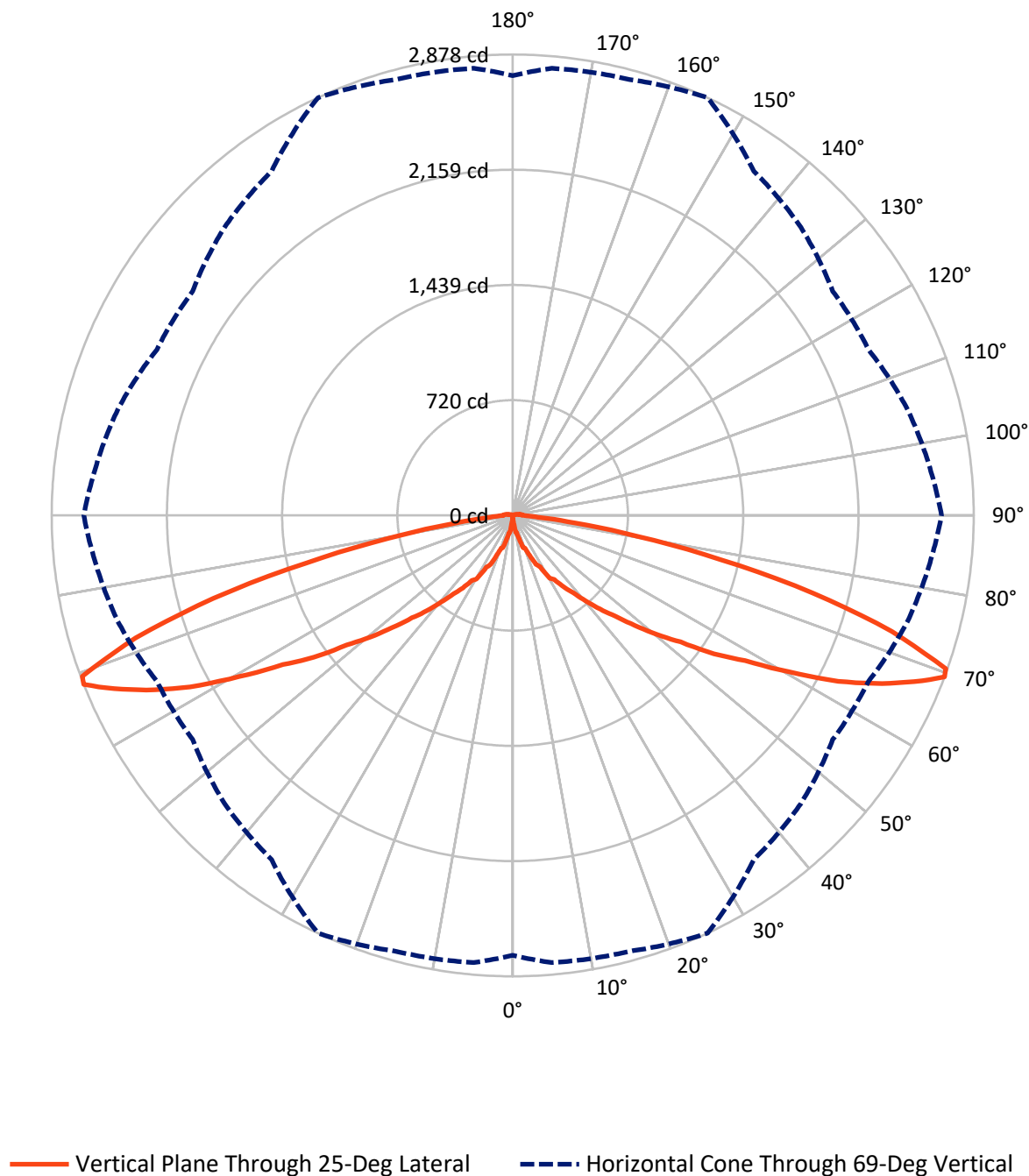


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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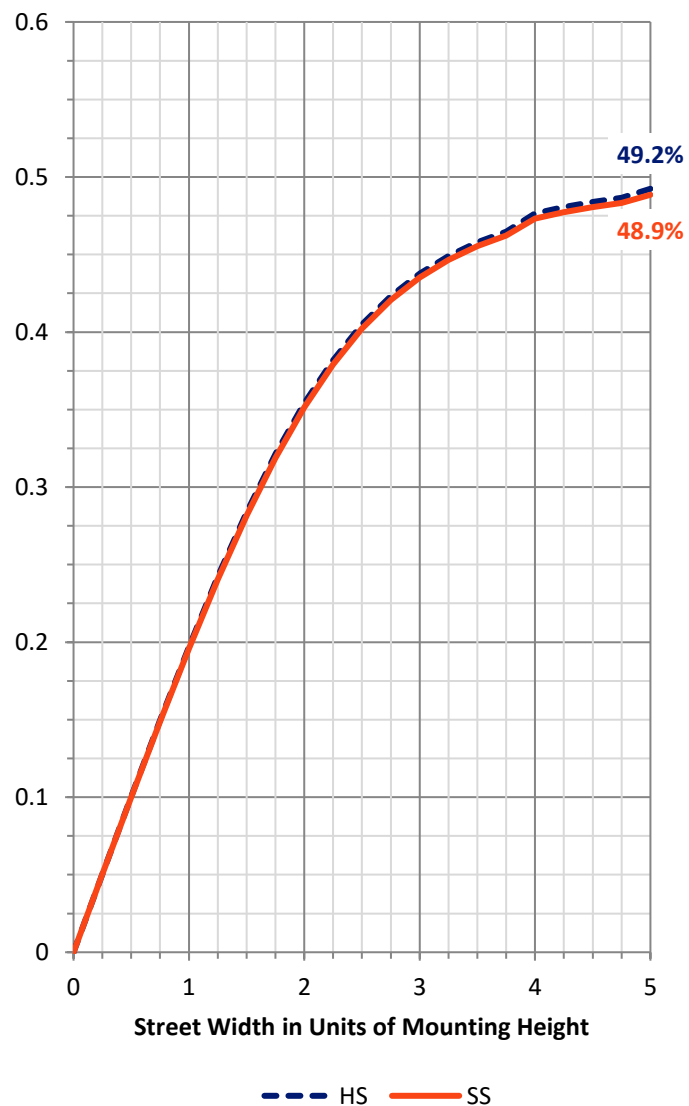
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3699.7	46.6	3746.3
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3699.7	46.6	3746.3
	% Fixture	49.4	0.6	50.0
Total	Lumens	7399.4	93.2	7492.5
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	44.2	0.6
20°-30°	164.7	2.2
30°-40°	373.8	5.0
40°-50°	716.7	9.6
50°-60°	1382.5	18.5
60°-70°	2378.3	31.7
70°-80°	2030.1	27.1
80°-90°	304.9	4.1
90°-100°	49.8	0.7
100°-110°	22.6	0.3
110°-120°	9.0	0.1
120°-130°	5.9	0.1
130°-140°	3.6	0.0
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7399.4	98.8
0°-180°	7492.5	100.0

Coefficient of Utilization



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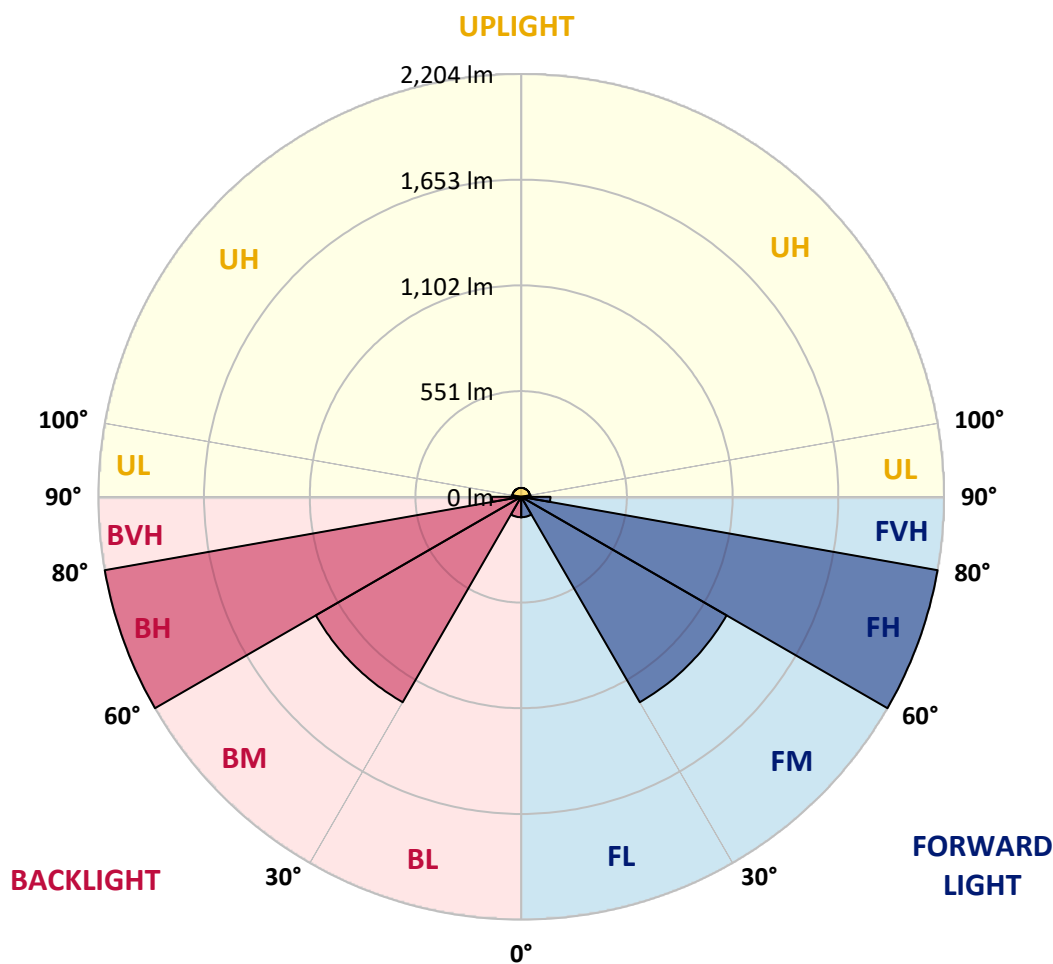
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.5	1.4			
FM	(30°-60°)	1236.5	16.5			
FH	(60°-80°)	2204.2	29.4			G2/5000
FVH	(80°-90°)	152.4	2.0			G2/225
BL	(0°-30°)	106.5	1.4	B0/110		
BM	(30°-60°)	1236.5	16.5	B2/2500		
BH	(60°-80°)	2204.2	29.4	B3/2500		G2/5000
BVH	(80°-90°)	152.4	2.0			G2/225
UL	(90°-100°)	49.8	0.7		U2/50	
UH	(100°-180°)	46.6	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	33.7	33.7	33.7	32.1	32.1	35.6	24.3	19.0	18.1	15.6	15.6
5°	38.2	38.9	36.4	34.7	33.7	35.6	36.4	33.7	20.8	16.4	14.7
7.5°	64.1	69.3	63.3	56.4	53.8	37.3	33.0	36.4	27.8	17.3	16.4
10°	112.6	111.7	114.4	106.5	77.2	59.7	49.3	33.7	40.8	31.3	29.5
12.5°	114.4	112.6	113.5	113.5	110.1	98.9	72.0	79.0	85.0	91.0	87.6
15°	199.5	195.9	178.7	154.2	110.1	134.3	136.2	140.4	126.7	121.5	118.8
17.5°	225.5	222.8	219.4	210.7	191.6	168.3	165.6	165.6	186.4	210.7	196.8
20°	249.6	244.5	221.1	217.6	234.9	211.6	203.7	247.0	267.1	287.8	280.0
22.5°	350.2	360.7	352.9	272.2	254.0	254.0	283.4	294.7	296.5	306.1	299.0
25°	359.0	364.2	355.5	338.1	320.8	296.5	316.5	329.5	382.3	401.5	397.1
27.5°	456.9	460.3	414.4	363.3	366.7	354.7	356.3	405.8	454.4	457.7	476.8
30°	492.5	496.8	474.2	455.1	404.0	403.1	423.1	456.9	514.1	555.7	589.6
32.5°	603.4	584.3	522.8	478.5	456.0	449.2	464.8	528.8	591.3	625.9	667.6
35°	665.9	674.4	661.5	548.8	497.7	523.6	527.1	553.1	610.4	671.0	695.3
37.5°	765.5	768.1	682.4	613.8	547.1	591.3	610.4	611.1	684.9	756.8	776.9
40°	829.7	854.0	798.5	701.3	609.5	637.2	640.8	714.4	782.9	829.7	860.8
42.5°	925.1	924.1	865.2	800.2	681.5	707.4	723.0	750.9	862.6	919.0	950.1
45°	1029.9	1028.2	975.3	896.5	792.5	768.1	791.5	870.5	990.0	1036.9	1021.3
47.5°	1161.7	1169.6	1116.7	1027.3	890.4	933.7	903.3	1010.1	1053.4	1113.2	1152.2
50°	1297.8	1305.6	1240.6	1168.7	1022.1	1025.7	1040.3	1123.6	1192.1	1286.6	1328.1
52.5°	1479.0	1485.9	1421.7	1312.6	1197.4	1208.5	1202.6	1245.8	1372.4	1470.3	1455.7
55°	1677.6	1675.0	1596.9	1525.9	1425.3	1387.2	1363.7	1477.4	1552.7	1628.2	1643.8
57.5°	1970.6	1940.2	1846.6	1710.6	1599.5	1622.1	1603.0	1636.0	1757.4	1868.4	1897.8
60°	2185.5	2204.7	2137.1	1983.5	1816.4	1808.5	1824.1	1886.5	1973.1	2042.6	2083.3
62.5°	2514.1	2496.0	2413.7	2280.9	2130.2	2138.8	2072.0	2120.5	2171.7	2269.7	2266.2
65°	2661.6	2657.2	2603.5	2533.3	2398.0	2346.8	2281.9	2306.0	2356.4	2409.3	2488.1
67.5°	2755.2	2809.0	2777.7	2757.0	2564.5	2524.5	2383.3	2421.4	2484.7	2553.3	2608.7
69°	2746.6	2802.9	2817.7	2878.3	2624.3	2544.4	2439.6	2450.8	2552.4	2633.8	2677.2
70°	2696.3	2768.1	2769.0	2868.7	2621.8	2609.5	2464.0	2446.5	2569.7	2647.8	2700.6
72.5°	2381.5	2428.4	2462.2	2475.2	2476.1	2611.4	2444.8	2308.7	2416.3	2573.1	2571.4
75°	1841.4	1893.4	1962.7	1939.4	2131.9	2370.3	2210.8	1975.8	1988.8	2075.5	2096.4
77.5°	1159.2	1164.4	1254.6	1326.4	1642.9	1889.1	1727.9	1407.0	1259.8	1262.3	1311.7
80°	662.4	664.0	714.4	788.9	1010.9	1296.2	1064.6	792.5	619.9	611.1	605.9
82.5°	316.5	309.5	328.6	389.2	524.5	654.5	532.3	302.5	241.9	266.2	269.6
85°	113.5	134.3	152.6	174.2	241.0	252.2	187.2	155.1	159.4	149.9	154.2
87.5°	71.1	72.9	86.6	93.7	100.6	104.9	117.0	104.9	106.5	88.5	83.3
90°	50.2	51.2	62.4	64.1	69.3	70.2	67.6	67.6	64.9	51.2	52.9
92.5°	38.9	38.2	48.6	54.5	59.7	56.4	59.0	51.2	49.3	37.3	36.4
95°	48.6	48.6	52.9	55.4	49.3	41.6	47.7	46.0	44.1	33.0	32.1
97.5°	27.8	29.5	39.9	42.5	41.6	33.7	40.8	41.6	39.9	28.6	24.3
100°	24.3	26.9	35.6	38.2	36.4	28.6	36.4	38.2	35.6	25.2	22.5
102.5°	21.6	23.4	29.5	33.0	29.5	21.6	29.5	32.1	29.5	20.8	19.0
105°	18.1	19.0	20.8	24.3	20.8	16.4	21.6	23.4	19.0	16.4	15.6
107.5°	15.6	15.6	14.7	16.4	14.7	12.9	15.6	16.4	13.8	13.8	13.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	14.7	13.8	11.3	11.3	11.3	10.4	11.3	12.1	11.3	12.9	12.9
112.5°	12.9	12.1	9.5	8.7	8.7	8.7	9.5	9.5	9.5	12.1	12.1
115°	12.1	11.3	8.7	6.9	7.7	7.7	7.7	7.7	8.7	11.3	12.1
117.5°	12.1	11.3	7.7	6.9	6.1	6.1	6.9	6.9	8.7	11.3	11.3
120°	11.3	10.4	7.7	6.1	5.2	5.2	6.1	6.9	8.7	11.3	11.3
122.5°	10.4	10.4	6.9	5.2	5.2	5.2	5.2	6.1	7.7	10.4	10.4
125°	9.5	9.5	6.9	5.2	4.3	4.3	5.2	6.1	7.7	10.4	10.4
127.5°	9.5	8.7	6.9	4.3	4.3	4.3	4.3	5.2	6.9	9.5	10.4
130°	8.7	8.7	6.1	4.3	3.5	3.5	4.3	5.2	6.9	8.7	9.5
132.5°	8.7	7.7	6.1	3.5	3.5	3.5	3.5	4.3	6.1	7.7	8.7
135°	6.9	6.9	5.2	3.5	2.5	2.5	3.5	4.3	5.2	6.9	7.7
137.5°	6.9	6.1	5.2	3.5	2.5	2.5	2.5	3.5	5.2	6.1	6.9
140°	6.1	6.1	4.3	3.5	2.5	2.5	2.5	3.5	4.3	5.2	6.1
142.5°	5.2	5.2	4.3	3.5	2.5	1.7	2.5	2.5	3.5	4.3	4.3
145°	5.2	5.2	4.3	2.5	1.7	1.7	1.7	2.5	3.5	3.5	4.3
147.5°	4.3	4.3	3.5	2.5	1.7	0.9	1.7	2.5	2.5	3.5	3.5
150°	3.5	3.5	2.5	1.7	0.9	0.0	0.9	1.7	2.5	2.5	2.5
152.5°	2.5	2.5	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.5
155°	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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)