

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: P266462

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266462  
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-AF24-80-D-U-5WQ-CL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 6928.3 lumens  
Efficiency: N/A  
Efficacy: 83.5 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): 83  
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

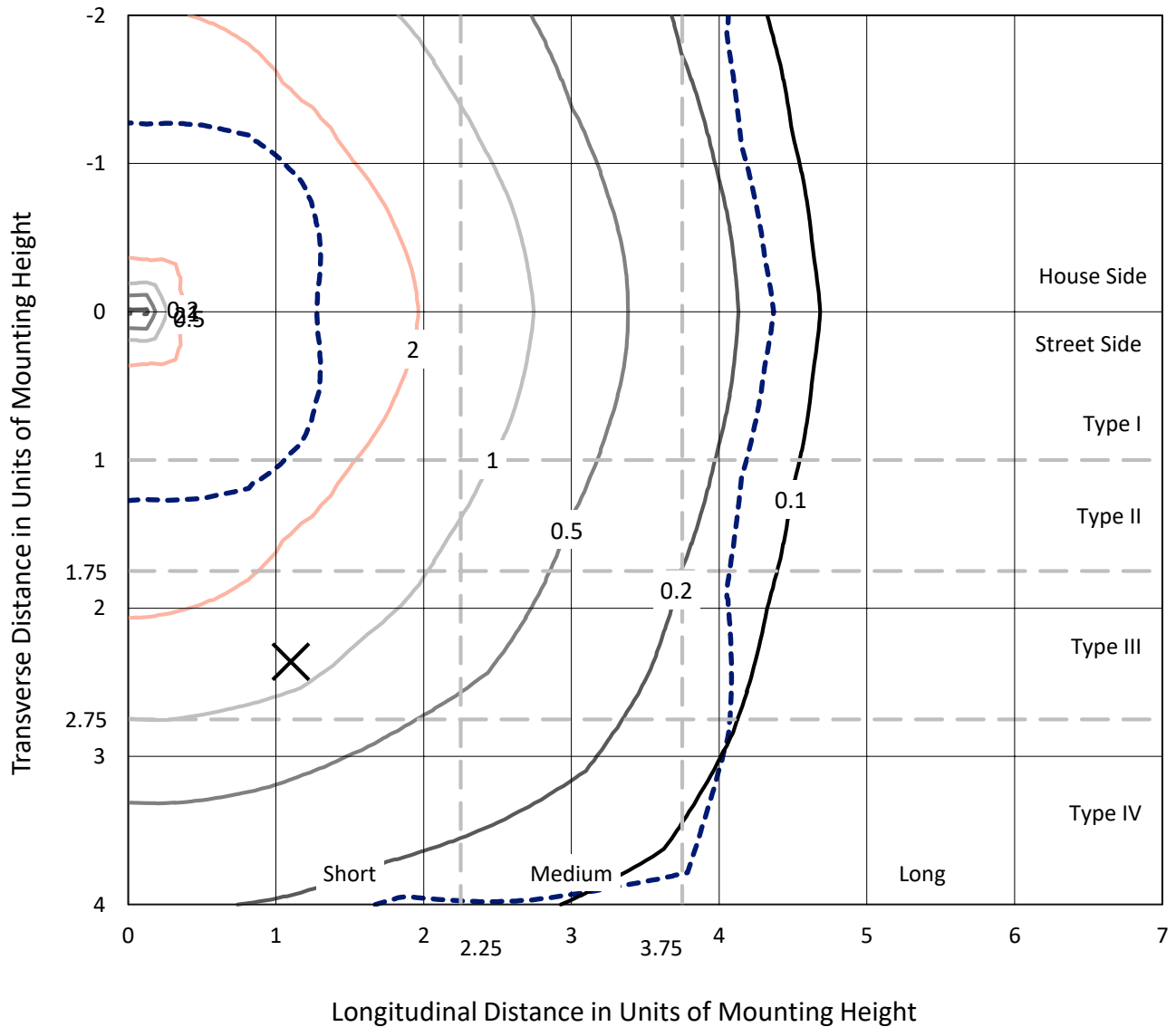


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

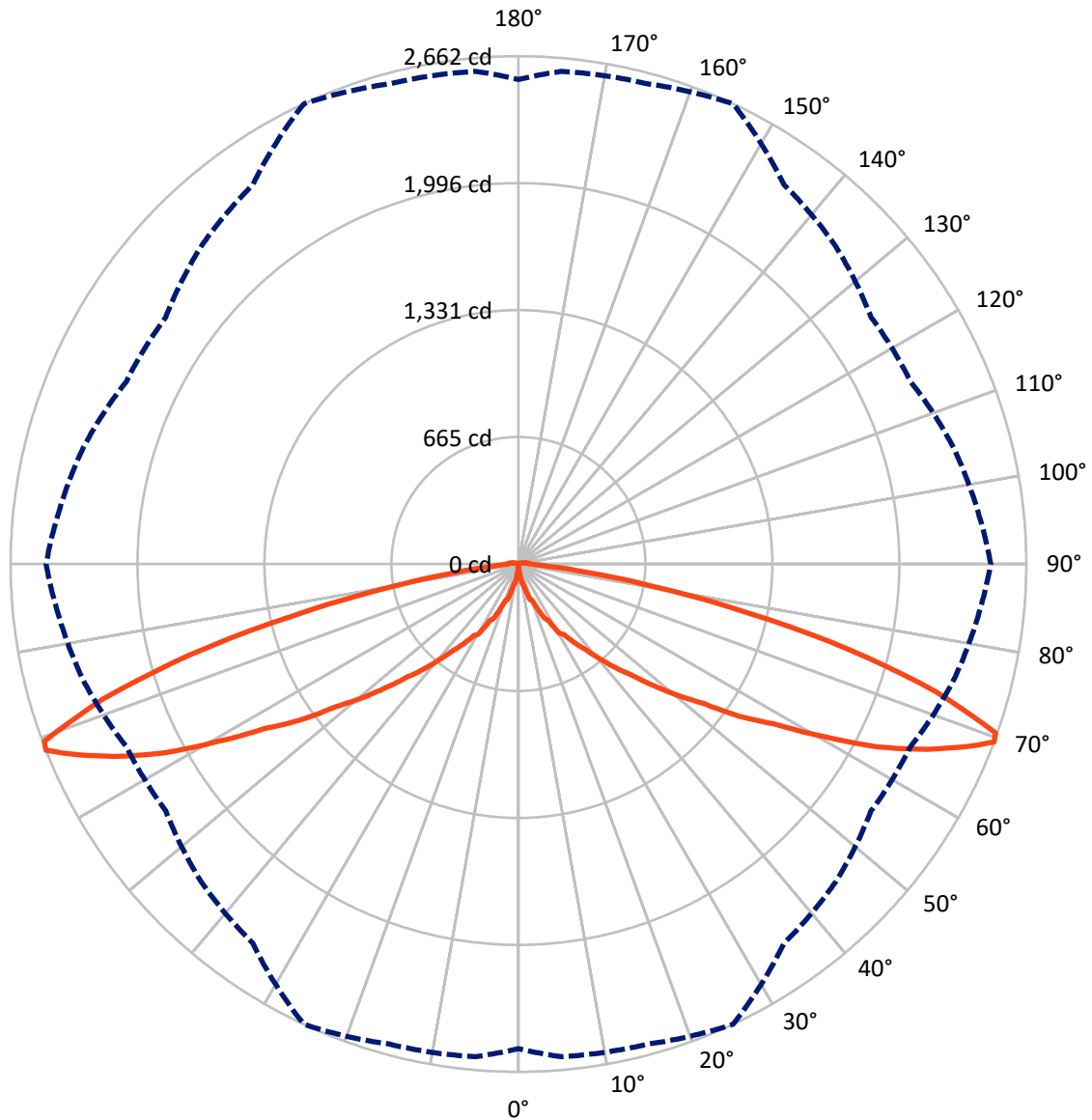


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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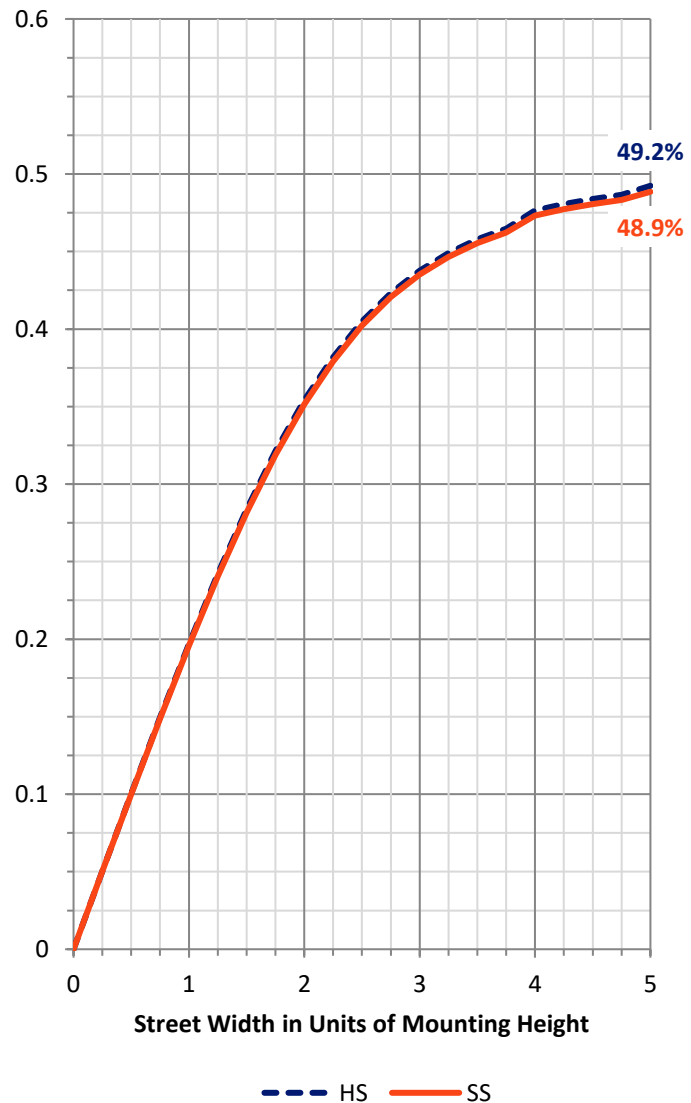
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3421.0	43.1	3464.1
	% Fixture	49.4	0.6	50.0
<b>Street Side</b>	Lumens	3421.0	43.1	3464.1
	% Fixture	49.4	0.6	50.0
<b>Total</b>	Lumens	6842.0	86.3	6928.3
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	40.9	0.6
20°-30°	152.3	2.2
30°-40°	345.6	5.0
40°-50°	662.8	9.6
50°-60°	1278.3	18.5
60°-70°	2199.2	31.7
70°-80°	1877.2	27.1
80°-90°	281.9	4.1
90°-100°	46.1	0.7
100°-110°	20.9	0.3
110°-120°	8.3	0.1
120°-130°	5.5	0.1
130°-140°	3.4	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°	6842.0	98.8
0°-180°	6928.3	100.0



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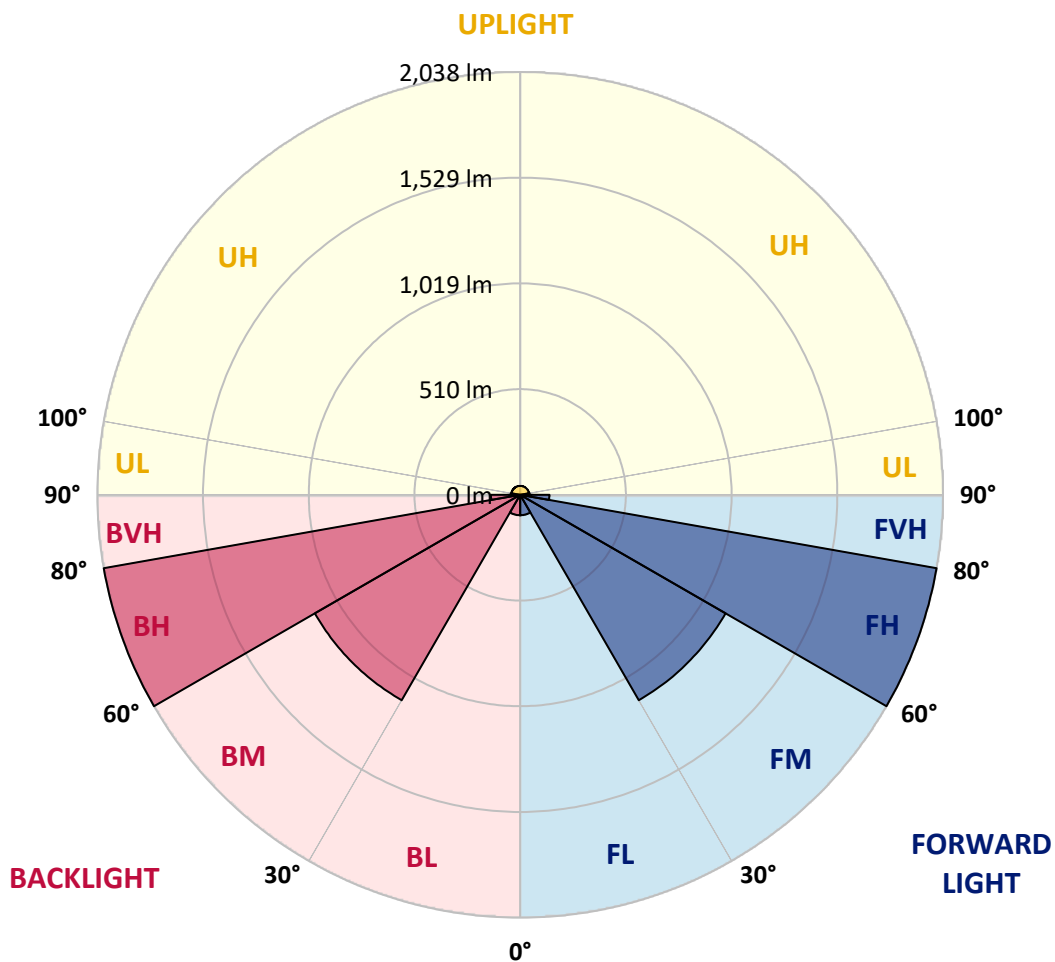
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.5	1.4			
FM (30°-60°)	1143.4	16.5			
FH (60°-80°)	2038.2	29.4			G2/5000
FVH (80°-90°)	141.0	2.0			G2/225
BL (0°-30°)	98.5	1.4	B0/110		
BM (30°-60°)	1143.4	16.5	B2/2500		
BH (60°-80°)	2038.2	29.4	B3/2500		G2/5000
BVH (80°-90°)	141.0	2.0			G2/225
UL (90°-100°)	46.1	0.7		U2/50	
UH (100°-180°)	43.1	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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	31.4	31.4	31.4	29.6	29.6	32.9	22.5	17.6	16.9	14.5	14.5
5°	35.3	36.1	33.6	32.1	31.4	32.9	33.6	31.4	19.3	15.2	13.7
7.5°	59.3	64.0	58.5	52.1	49.6	34.5	30.5	33.6	25.6	16.0	15.2
10°	104.3	103.5	105.8	98.6	71.3	55.3	45.8	31.4	37.6	28.8	27.3
12.5°	105.8	104.3	105.0	105.0	101.8	91.4	66.6	72.9	78.5	84.3	80.9
15°	184.4	181.2	165.2	142.7	101.8	124.2	125.9	129.8	117.0	112.3	109.9
17.5°	208.4	206.0	202.7	194.8	177.1	155.5	153.2	153.2	172.4	194.8	181.9
20°	230.9	226.1	204.5	201.2	217.2	195.7	188.4	228.4	246.9	266.2	258.9
22.5°	323.8	333.5	326.3	251.7	234.8	234.8	262.1	272.5	274.2	283.0	276.6
25°	331.8	336.8	328.7	312.6	296.6	274.2	292.6	304.6	353.6	371.2	367.1
27.5°	422.5	425.6	383.1	335.8	339.1	327.9	329.5	375.2	420.0	423.3	440.9
30°	455.4	459.4	438.6	420.9	373.5	372.7	391.2	422.5	475.5	513.9	545.1
32.5°	557.9	540.3	483.4	442.5	421.7	415.2	429.7	488.9	546.7	578.8	617.2
35°	615.7	623.8	611.7	507.5	460.1	484.1	487.4	511.5	564.3	620.5	642.9
37.5°	707.9	710.3	630.9	567.5	505.8	546.7	564.3	565.2	633.3	699.9	718.3
40°	767.2	789.6	738.3	648.5	563.5	589.2	592.4	660.6	723.9	767.2	796.1
42.5°	855.4	854.6	800.1	739.9	630.2	654.1	668.6	694.2	797.7	849.7	878.6
45°	952.4	950.8	901.9	829.0	732.7	710.3	731.8	804.9	915.6	958.9	944.4
47.5°	1074.3	1081.4	1032.5	950.0	823.2	863.5	835.3	934.0	974.0	1029.4	1065.4
50°	1200.0	1207.3	1147.1	1080.7	945.1	948.4	961.9	1039.0	1102.3	1189.6	1228.2
52.5°	1367.6	1374.0	1314.7	1213.7	1107.2	1117.5	1111.9	1151.9	1269.0	1359.7	1346.0
55°	1551.3	1548.8	1476.6	1410.9	1318.0	1282.7	1261.0	1366.1	1435.9	1505.5	1519.9
57.5°	1822.2	1794.2	1707.6	1581.6	1479.1	1499.9	1482.3	1512.7	1624.9	1727.6	1754.7
60°	2020.9	2038.7	1976.1	1834.2	1679.6	1672.3	1686.7	1744.4	1824.5	1888.6	1926.3
62.5°	2324.9	2307.9	2231.7	2109.2	1969.7	1977.7	1915.9	1960.9	2008.2	2098.7	2095.6
65°	2461.0	2457.0	2407.4	2342.4	2217.3	2170.0	2109.9	2132.4	2178.8	2227.7	2300.7
67.5°	2547.7	2597.4	2568.6	2549.3	2371.3	2334.4	2203.7	2239.0	2297.5	2360.8	2412.2
69°	2539.7	2591.8	2605.4	2661.5	2426.6	2352.9	2255.9	2266.3	2360.0	2435.5	2475.5
70°	2493.2	2559.7	2560.4	2652.7	2424.3	2412.9	2278.3	2262.3	2376.1	2448.3	2497.2
72.5°	2202.1	2245.5	2276.8	2288.7	2289.5	2414.6	2260.7	2134.8	2234.3	2379.3	2377.8
75°	1702.7	1750.8	1814.9	1793.3	1971.3	2191.8	2044.3	1827.1	1839.0	1919.1	1938.5
77.5°	1071.8	1076.6	1160.0	1226.5	1519.2	1746.8	1597.7	1301.0	1164.8	1167.2	1212.9
80°	612.5	614.1	660.6	729.6	934.7	1198.5	984.5	732.7	573.2	565.2	560.4
82.5°	292.6	286.2	303.8	360.0	485.1	605.3	492.2	279.8	223.7	246.1	249.3
85°	105.0	124.2	141.2	161.2	222.9	233.3	173.2	143.5	147.5	138.7	142.7
87.5°	65.8	67.4	80.2	86.5	93.0	96.9	108.2	96.9	98.6	81.7	77.0
90°	46.5	47.3	57.8	59.3	64.0	64.9	62.5	62.5	60.1	47.3	48.9
92.5°	36.1	35.3	44.8	50.6	55.3	52.1	54.4	47.3	45.8	34.5	33.6
95°	44.8	44.8	48.9	51.4	45.8	38.4	44.0	42.5	41.0	30.5	29.6
97.5°	25.6	27.3	36.9	39.3	38.4	31.4	37.6	38.4	36.9	26.5	22.5
100°	22.5	24.9	32.9	35.3	33.6	26.5	33.6	35.3	32.9	23.3	20.8
102.5°	20.0	21.6	27.3	30.5	27.3	20.0	27.3	29.6	27.3	19.3	17.6
105°	16.9	17.6	19.3	22.5	19.3	15.2	20.0	21.6	17.6	15.2	14.5
107.5°	14.5	14.5	13.7	15.2	13.7	12.0	14.5	15.2	12.8	12.8	12.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	13.7	12.8	10.4	10.4	10.4	9.6	10.4	11.1	10.4	12.0	12.0
112.5°	12.0	11.1	8.9	8.1	8.1	8.1	8.9	8.9	8.9	11.1	11.1
115°	11.1	10.4	8.1	6.4	7.2	7.2	7.2	7.2	8.1	10.4	11.1
117.5°	11.1	10.4	7.2	6.4	5.6	5.6	6.4	6.4	8.1	10.4	10.4
120°	10.4	9.6	7.2	5.6	4.9	4.9	5.6	6.4	8.1	10.4	10.4
122.5°	9.6	9.6	6.4	4.9	4.9	4.9	4.9	5.6	7.2	9.6	9.6
125°	8.9	8.9	6.4	4.9	4.0	4.0	4.9	5.6	7.2	9.6	9.6
127.5°	8.9	8.1	6.4	4.0	4.0	4.0	4.0	4.9	6.4	8.9	9.6
130°	8.1	8.1	5.6	4.0	3.2	3.2	4.0	4.9	6.4	8.1	8.9
132.5°	8.1	7.2	5.6	3.2	3.2	3.2	3.2	4.0	5.6	7.2	8.1
135°	6.4	6.4	4.9	3.2	2.4	2.4	3.2	4.0	4.9	6.4	7.2
137.5°	6.4	5.6	4.9	3.2	2.4	2.4	2.4	3.2	4.9	5.6	6.4
140°	5.6	5.6	4.0	3.2	2.4	2.4	2.4	3.2	4.0	4.9	5.6
142.5°	4.9	4.9	4.0	3.2	2.4	1.5	2.4	2.4	3.2	4.0	4.0
145°	4.9	4.9	4.0	2.4	1.5	1.5	1.5	2.4	3.2	3.2	4.0
147.5°	4.0	4.0	3.2	2.4	1.5	0.8	1.5	2.4	2.4	3.2	3.2
150°	3.2	3.2	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)