

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: P266428

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266428  
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-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 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: 6331.6 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

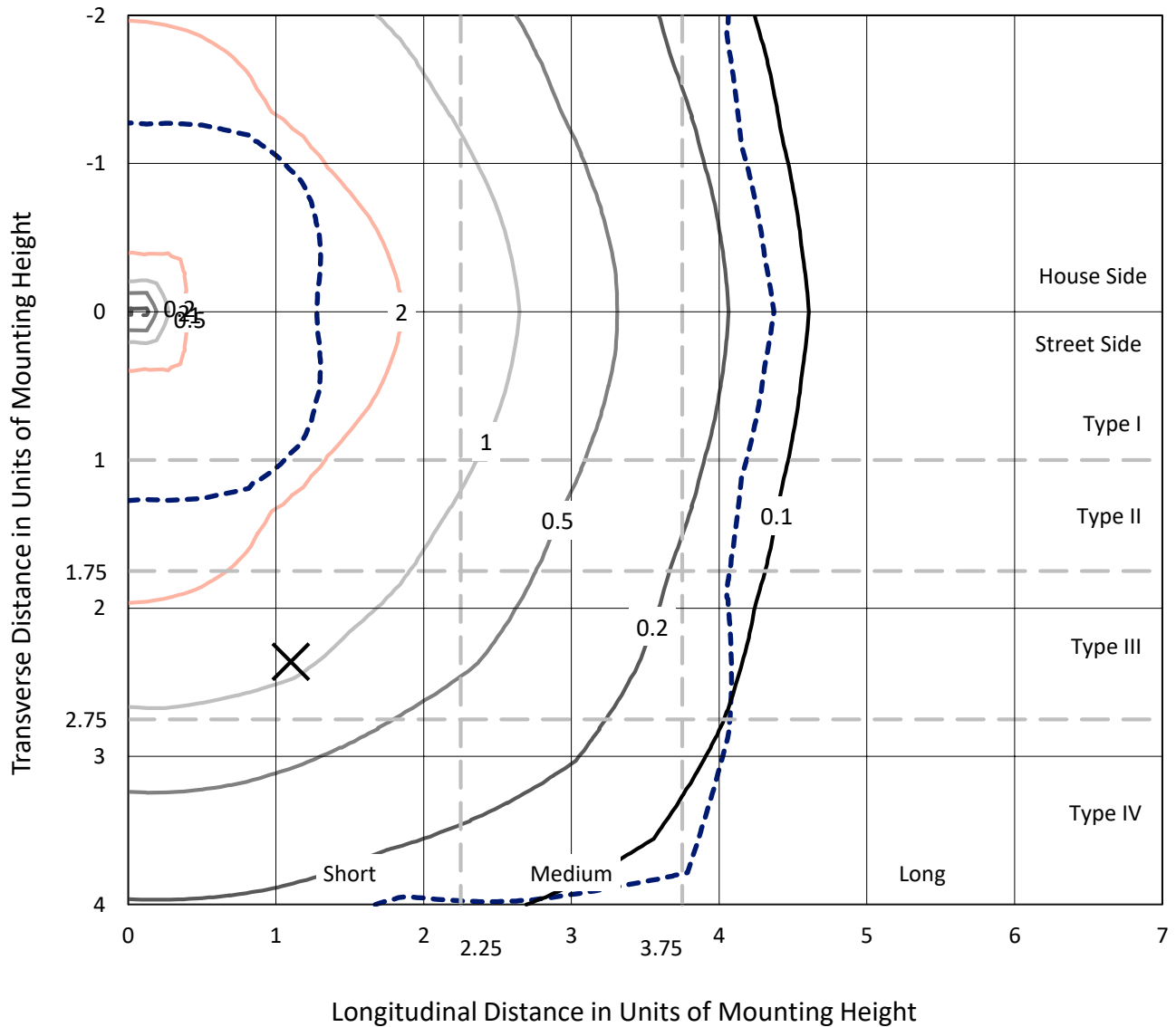


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

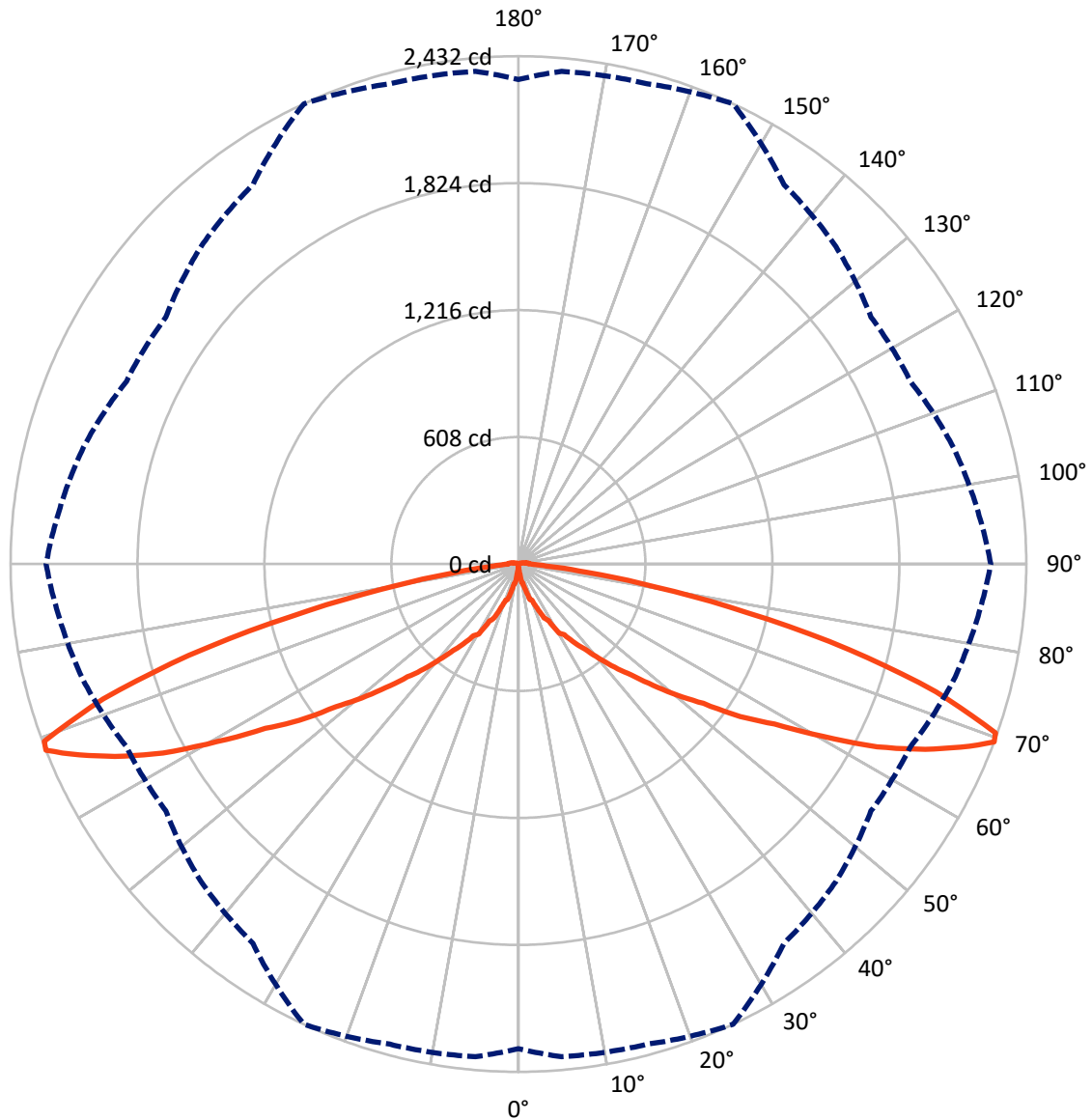


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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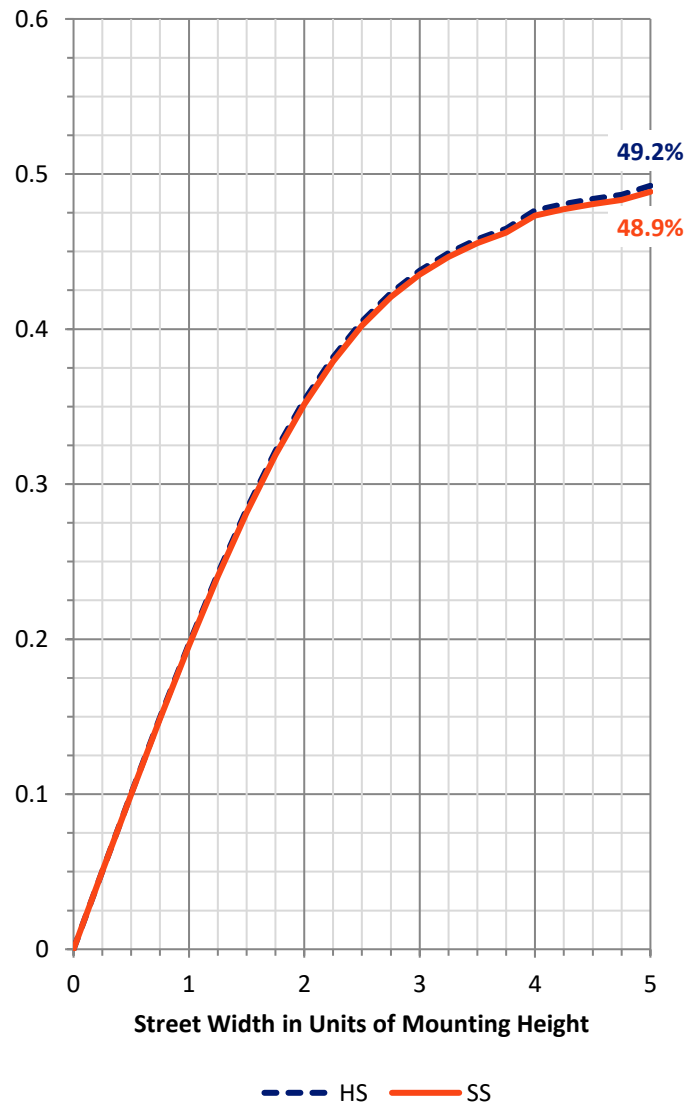
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3126.3	39.4	3165.8
	% Fixture	49.4	0.6	50.0
<b>Street Side</b>	Lumens	3126.3	39.4	3165.8
	% Fixture	49.4	0.6	50.0
<b>Total</b>	Lumens	6252.7	78.9	6331.6
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	37.4	0.6
20°-30°	139.2	2.2
30°-40°	315.9	5.0
40°-50°	605.6	9.6
50°-60°	1168.2	18.5
60°-70°	2009.8	31.7
70°-80°	1715.5	27.1
80°-90°	257.6	4.1
90°-100°	42.1	0.7
100°-110°	19.1	0.3
110°-120°	7.6	0.1
120°-130°	5.0	0.1
130°-140°	3.1	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°	6252.7	98.8
0°-180°	6331.6	100.0



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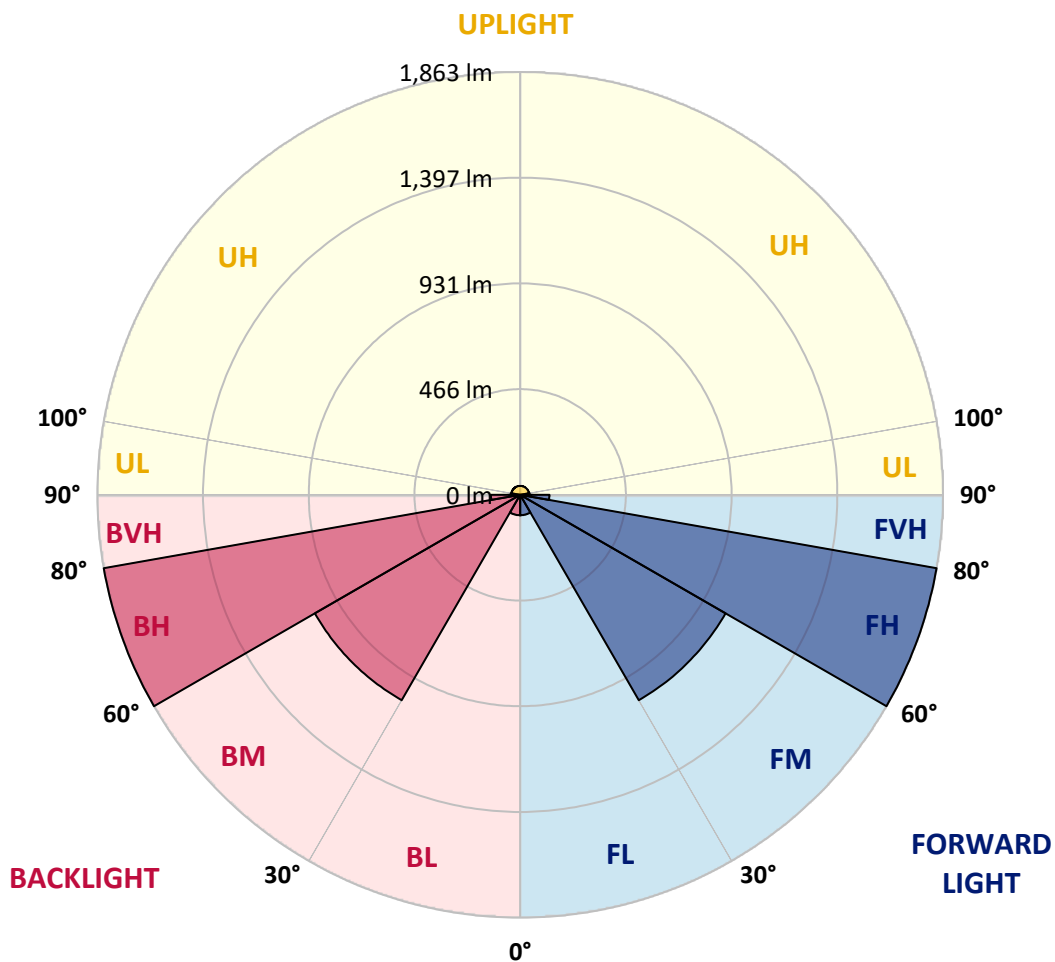
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.0	1.4			
FM (30°-60°)	1044.9	16.5			
FH (60°-80°)	1862.6	29.4			G2/5000
FVH (80°-90°)	128.8	2.0			G2/225
BL (0°-30°)	90.0	1.4	B0/110		
BM (30°-60°)	1044.9	16.5	B2/2500		
BH (60°-80°)	1862.6	29.4	B3/2500		G2/5000
BVH (80°-90°)	128.8	2.0			G2/225
UL (90°-100°)	42.1	0.7		U2/50	
UH (100°-180°)	39.4	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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	28.6	28.6	28.6	27.0	27.0	30.1	20.5	16.1	15.5	13.1	13.1
5°	32.2	33.0	30.8	29.4	28.6	30.1	30.8	28.6	17.5	14.0	12.4
7.5°	54.2	58.6	53.4	47.6	45.5	31.5	27.8	30.8	23.4	14.6	14.0
10°	95.2	94.5	96.7	90.1	65.1	50.6	41.7	28.6	34.5	26.4	25.0
12.5°	96.7	95.2	95.9	95.9	93.1	83.5	60.8	66.7	71.9	77.0	74.0
15°	168.5	165.6	150.9	130.4	93.1	113.5	115.1	118.7	107.0	102.5	100.4
17.5°	190.5	188.3	185.3	178.0	162.0	142.1	140.0	140.0	157.6	178.0	166.2
20°	211.0	206.6	186.8	184.0	198.5	178.8	172.1	208.8	225.7	243.3	236.7
22.5°	296.0	304.7	298.1	230.1	214.7	214.7	239.6	249.1	250.5	258.6	252.8
25°	303.3	307.7	300.4	285.8	271.1	250.5	267.3	278.4	323.1	339.2	335.5
27.5°	386.1	389.1	350.2	307.0	309.8	299.7	301.1	342.9	383.8	386.8	402.9
30°	416.2	419.8	400.7	384.7	341.4	340.6	357.5	386.1	434.4	469.6	498.2
32.5°	509.9	493.8	441.7	404.3	385.4	379.5	392.6	446.8	499.6	528.9	564.1
35°	562.7	570.0	558.9	463.7	420.5	442.4	445.4	467.4	515.7	567.0	587.5
37.5°	646.9	649.0	576.5	518.7	462.3	499.6	515.7	516.4	578.8	639.6	656.4
40°	701.0	721.6	674.7	592.7	515.0	538.4	541.4	603.8	661.5	701.0	727.4
42.5°	781.6	780.9	731.1	676.2	575.9	597.8	610.9	634.5	729.0	776.6	802.9
45°	870.4	868.9	824.1	757.5	669.5	649.0	668.9	735.5	836.6	876.1	863.0
47.5°	981.7	988.2	943.6	868.1	752.4	789.0	763.4	853.5	890.1	940.6	973.7
50°	1096.7	1103.3	1048.3	987.5	863.7	866.7	879.1	949.5	1007.3	1087.2	1122.3
52.5°	1249.8	1255.7	1201.6	1109.1	1011.8	1021.3	1016.2	1052.8	1159.7	1242.5	1230.0
55°	1417.6	1415.4	1349.4	1289.3	1204.4	1172.2	1152.3	1248.4	1312.2	1375.8	1389.0
57.5°	1665.2	1639.5	1560.4	1445.5	1351.7	1370.8	1354.6	1382.4	1485.0	1578.9	1603.7
60°	1846.9	1863.1	1806.0	1676.1	1534.8	1528.2	1541.4	1594.1	1667.4	1726.1	1760.5
62.5°	2124.6	2109.2	2039.6	1927.6	1800.1	1807.4	1750.9	1791.9	1835.1	1918.1	1915.0
65°	2249.1	2245.5	2199.9	2140.8	2026.3	1983.2	1928.2	1948.8	1991.3	2035.9	2102.7
67.5°	2328.2	2373.7	2347.4	2329.8	2167.2	2133.4	2014.0	2046.2	2099.7	2157.5	2204.4
69°	2321.0	2368.6	2381.0	2432.3	2217.6	2150.3	2061.6	2071.1	2156.8	2225.7	2262.3
70°	2278.5	2339.2	2339.9	2424.3	2215.4	2205.2	2082.1	2067.4	2171.5	2237.4	2282.1
72.5°	2012.6	2052.1	2080.7	2091.7	2092.3	2206.6	2065.9	1950.9	2041.8	2174.3	2172.9
75°	1556.0	1600.1	1658.6	1638.9	1801.6	2003.0	1868.1	1669.6	1680.5	1753.9	1771.5
77.5°	979.5	984.0	1060.1	1120.8	1388.3	1596.4	1460.0	1189.0	1064.5	1066.6	1108.5
80°	559.7	561.3	603.8	666.7	854.2	1095.3	899.7	669.5	523.8	516.4	512.2
82.5°	267.3	261.5	277.7	328.9	443.3	553.1	449.8	255.7	204.5	224.9	227.8
85°	95.9	113.5	128.9	147.2	203.6	213.2	158.2	131.2	134.7	126.8	130.4
87.5°	60.0	61.5	73.2	79.1	85.0	88.7	99.0	88.7	90.1	74.6	70.3
90°	42.5	43.2	52.7	54.2	58.6	59.4	57.1	57.1	54.9	43.2	44.6
92.5°	33.0	32.2	41.1	46.2	50.6	47.6	49.9	43.2	41.7	31.5	30.8
95°	41.1	41.1	44.6	46.9	41.7	35.2	40.3	38.8	37.4	27.8	27.0
97.5°	23.4	25.0	33.6	35.9	35.2	28.6	34.5	35.2	33.6	24.2	20.5
100°	20.5	22.6	30.1	32.2	30.8	24.2	30.8	32.2	30.1	21.2	19.0
102.5°	18.3	19.9	25.0	27.8	25.0	18.3	25.0	27.0	25.0	17.5	16.1
105°	15.5	16.1	17.5	20.5	17.5	14.0	18.3	19.9	16.1	14.0	13.1
107.5°	13.1	13.1	12.4	14.0	12.4	11.0	13.1	14.0	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°	12.4	11.7	9.5	9.5	9.5	8.9	9.5	10.3	9.5	11.0	11.0
112.5°	11.0	10.3	8.1	7.4	7.4	7.4	8.1	8.1	8.1	10.3	10.3
115°	10.3	9.5	7.4	5.8	6.6	6.6	6.6	6.6	7.4	9.5	10.3
117.5°	10.3	9.5	6.6	5.8	5.1	5.1	5.8	5.8	7.4	9.5	9.5
120°	9.5	8.9	6.6	5.1	4.4	4.4	5.1	5.8	7.4	9.5	9.5
122.5°	8.9	8.9	5.8	4.4	4.4	4.4	4.4	5.1	6.6	8.9	8.9
125°	8.1	8.1	5.8	4.4	3.7	3.7	4.4	5.1	6.6	8.9	8.9
127.5°	8.1	7.4	5.8	3.7	3.7	3.7	3.7	4.4	5.8	8.1	8.9
130°	7.4	7.4	5.1	3.7	3.0	3.0	3.7	4.4	5.8	7.4	8.1
132.5°	7.4	6.6	5.1	3.0	3.0	3.0	3.0	3.7	5.1	6.6	7.4
135°	5.8	5.8	4.4	3.0	2.2	2.2	3.0	3.7	4.4	5.8	6.6
137.5°	5.8	5.1	4.4	3.0	2.2	2.2	2.2	3.0	4.4	5.1	5.8
140°	5.1	5.1	3.7	3.0	2.2	2.2	2.2	3.0	3.7	4.4	5.1
142.5°	4.4	4.4	3.7	3.0	2.2	1.4	2.2	2.2	3.0	3.7	3.7
145°	4.4	4.4	3.7	2.2	1.4	1.4	1.4	2.2	3.0	3.0	3.7
147.5°	3.7	3.7	3.0	2.2	1.4	0.7	1.4	2.2	2.2	3.0	3.0
150°	3.0	3.0	2.2	1.4	0.7	0.0	0.7	1.4	2.2	2.2	2.2
152.5°	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.7	1.4	1.4	2.2
155°	1.4	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	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)