

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: P240366

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

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)  
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-TL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6742.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

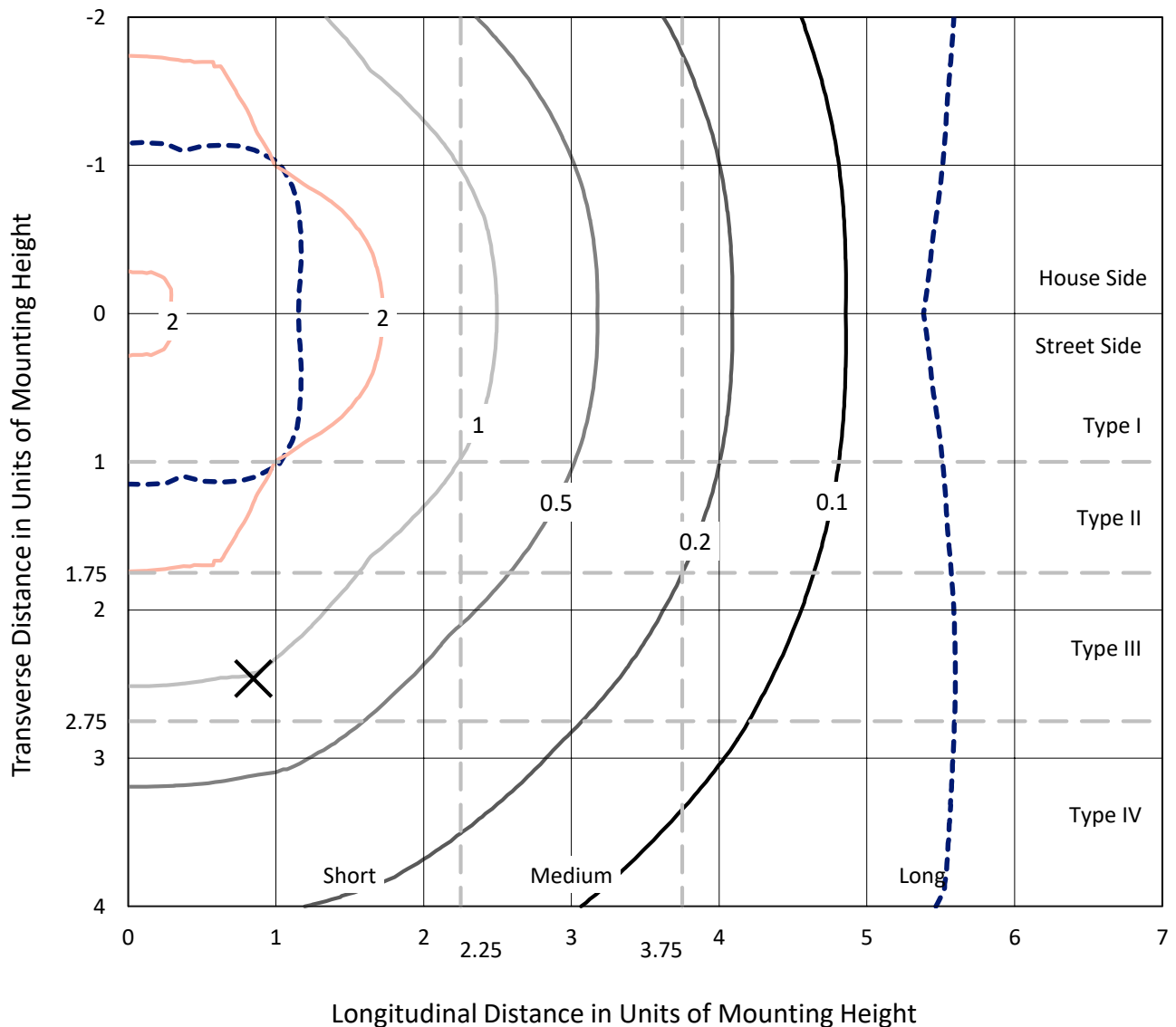


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

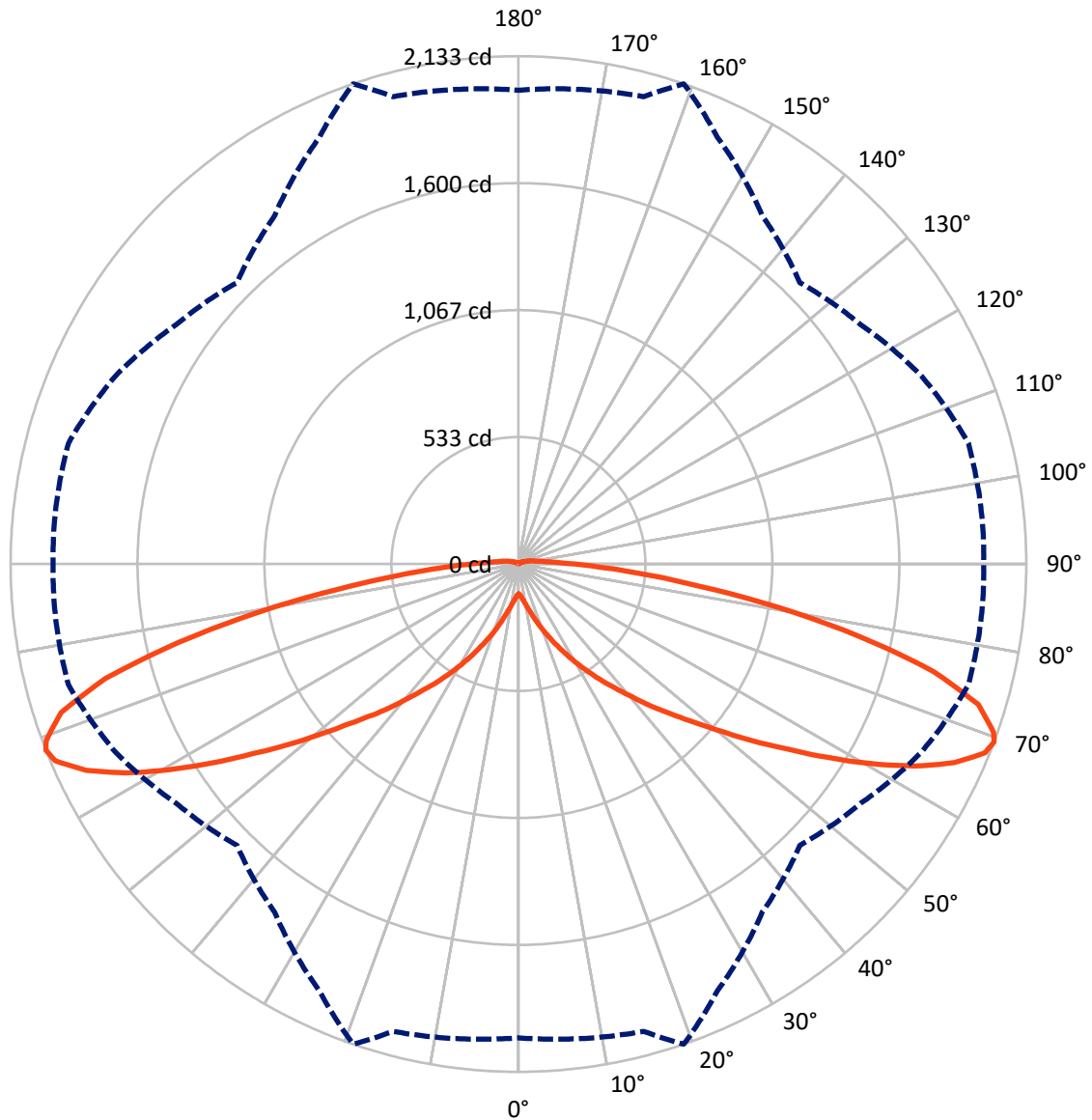


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 19-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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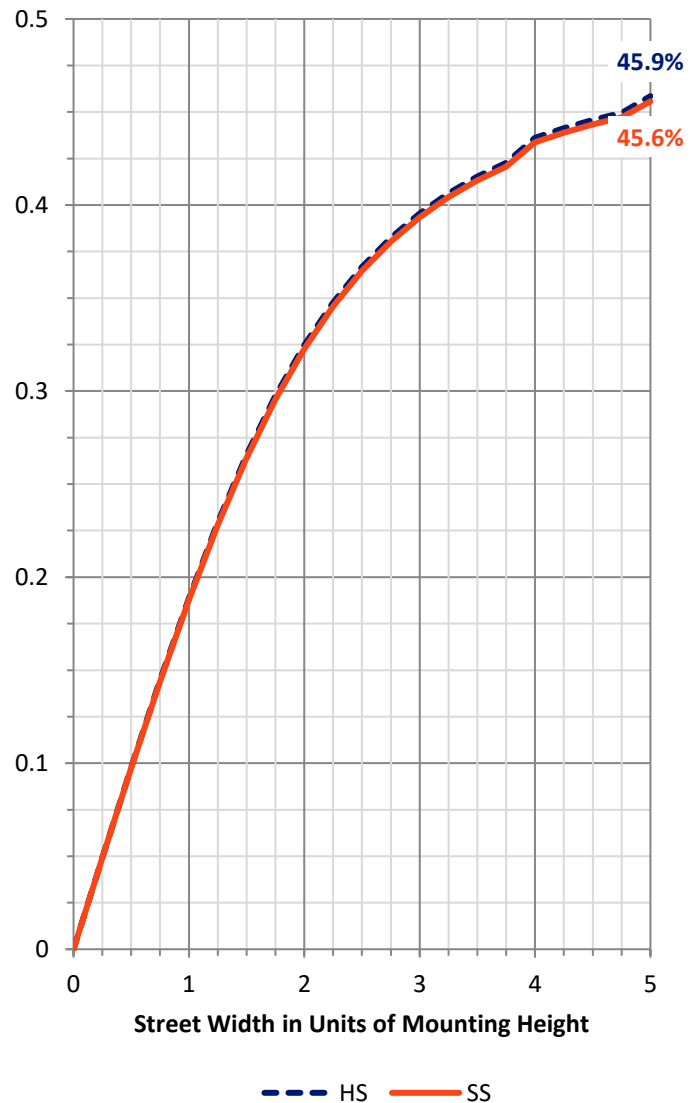
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3234.4	136.8	3371.2
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3234.4	136.8	3371.2
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	6468.8	273.6	6742.4
	% Fixture	95.9	4.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.2
10°-20°	60.2	0.9
20°-30°	164.2	2.4
30°-40°	347.2	5.1
40°-50°	633.9	9.4
50°-60°	1107.3	16.4
60°-70°	1735.7	25.7
70°-80°	1712.3	25.4
80°-90°	694.4	10.3
90°-100°	167.3	2.5
100°-110°	61.1	0.9
110°-120°	25.7	0.4
120°-130°	11.8	0.2
130°-140°	5.5	0.1
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°	6468.8	95.9
0°-180°	6742.4	100.0

**Coefficient of Utilization**



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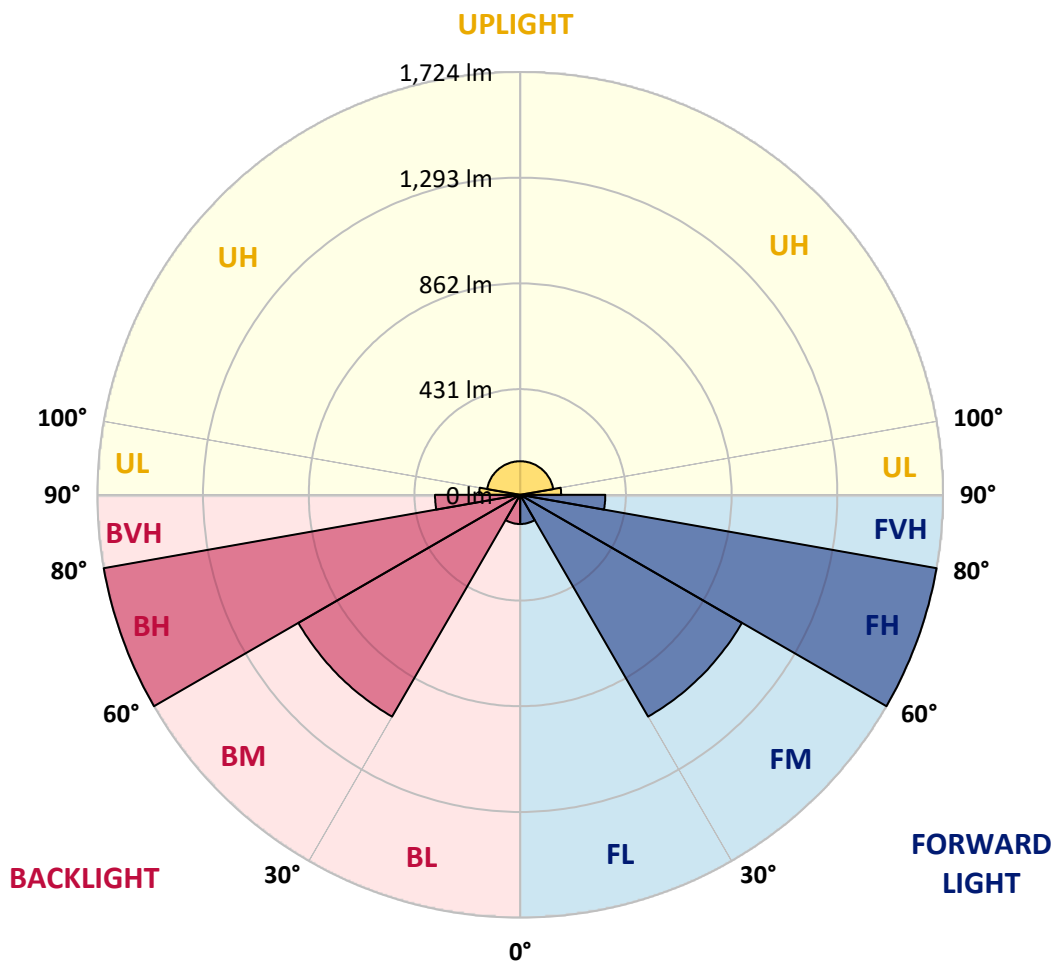
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.0	1.8			
FM (30°-60°)	1044.2	15.5			
FH (60°-80°)	1724.0	25.6			G1/1800
FVH (80°-90°)	347.2	5.1			G3/500
BL (0°-30°)	119.0	1.8	B1/500		
BM (30°-60°)	1044.2	15.5	B2/2500		
BH (60°-80°)	1724.0	25.6	B3/2500		G1/1800
BVH (80°-90°)	347.2	5.1			G3/500
UL (90°-100°)	167.3	2.5		U3/500	
UH (100°-180°)	136.8	2.0		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	127.3	127.3	127.3	130.6	127.3	127.3	127.3	127.3	127.3	127.3	126.4
5°	133.8	133.8	133.8	141.2	133.8	133.0	133.0	133.8	133.0	133.0	133.0
7.5°	146.0	145.2	145.2	154.9	145.2	144.3	143.5	143.5	143.5	142.7	142.7
10°	162.4	161.4	160.7	173.7	159.8	159.1	158.2	157.5	157.5	157.5	158.2
12.5°	183.5	183.5	181.9	196.5	179.4	177.0	175.4	174.6	175.4	176.2	177.0
15°	210.5	211.3	208.8	224.3	203.1	199.1	196.5	196.5	198.2	200.7	203.1
17.5°	246.4	245.5	240.6	259.4	234.2	225.9	220.2	221.0	226.7	233.3	237.4
20°	285.5	283.1	277.3	296.1	267.5	255.3	248.8	250.4	260.2	270.9	276.5
22.5°	328.8	326.2	318.2	336.8	303.4	287.9	281.5	283.8	296.1	311.6	323.0
25°	376.1	375.2	363.9	380.9	341.8	323.0	314.0	319.8	336.8	360.5	374.4
27.5°	428.2	426.6	411.9	430.7	385.0	362.2	351.6	357.3	380.1	411.2	433.1
30°	485.3	483.7	463.3	483.7	430.7	401.3	389.1	398.0	425.8	467.4	491.8
32.5°	546.6	544.8	519.6	539.2	481.3	443.7	427.4	439.7	475.5	521.2	553.8
35°	611.0	606.8	580.8	599.5	535.1	487.8	468.1	487.0	526.9	580.8	617.5
37.5°	680.2	675.4	645.1	661.6	591.4	537.5	515.4	532.6	583.2	640.4	685.2
40°	752.0	748.0	711.3	732.5	655.8	590.5	564.5	585.6	643.5	703.9	750.4
42.5°	827.9	823.9	788.8	815.7	725.2	648.5	618.3	645.1	708.0	774.8	825.5
45°	906.2	904.5	871.2	897.2	800.3	716.2	681.9	712.9	781.4	855.6	904.5
47.5°	1001.7	991.8	966.6	991.8	889.9	799.3	756.9	789.6	865.5	946.1	995.2
50°	1096.3	1094.7	1072.6	1103.6	991.1	885.0	838.6	876.0	962.5	1045.7	1092.1
52.5°	1208.9	1212.1	1188.4	1234.9	1108.6	993.5	938.0	980.5	1076.8	1157.5	1203.2
55°	1329.5	1331.3	1321.4	1371.2	1234.9	1106.0	1047.4	1093.8	1192.6	1281.5	1324.7
57.5°	1469.9	1468.2	1464.9	1533.5	1383.4	1240.6	1168.1	1224.4	1327.2	1416.9	1452.7
60°	1608.6	1608.6	1616.7	1702.4	1540.0	1379.3	1295.3	1359.7	1468.2	1562.9	1588.9
62.5°	1758.6	1761.0	1768.5	1868.8	1690.1	1520.5	1424.2	1494.3	1616.7	1704.0	1725.2
65°	1881.0	1892.4	1908.8	2012.3	1839.4	1648.5	1547.3	1621.6	1747.2	1833.7	1846.7
67.5°	1970.0	1975.6	2006.5	2114.2	1949.5	1750.5	1639.6	1716.3	1840.2	1928.3	1936.4
69°	1990.2	2003.4	2031.9	2133.1	1978.0	1785.6	1671.3	1753.7	1867.9	1956.9	1956.9
70°	1981.3	1997.6	2031.9	2117.6	1984.5	1797.0	1685.3	1762.0	1873.7	1956.1	1953.5
72.5°	1882.6	1894.0	1952.8	2020.4	1934.8	1774.2	1678.7	1744.8	1823.1	1880.2	1865.5
75°	1674.6	1686.0	1752.1	1800.3	1779.1	1666.4	1598.8	1641.9	1679.6	1685.3	1657.5
77.5°	1353.1	1370.3	1461.7	1464.9	1528.6	1484.5	1448.7	1464.2	1440.5	1414.4	1354.0
80°	1021.2	1033.5	1117.5	1109.3	1214.5	1242.3	1238.2	1229.2	1158.2	1075.8	1008.3
82.5°	708.0	717.9	801.9	764.3	902.2	969.0	992.7	961.7	854.1	761.0	700.7
85°	453.5	469.9	535.9	511.5	633.8	714.5	749.6	701.5	599.5	509.8	459.2
87.5°	293.7	300.1	348.3	327.9	420.8	504.1	541.6	502.5	411.9	336.8	294.5
90°	189.2	196.5	226.7	211.3	281.5	346.7	378.5	341.8	278.9	225.9	196.5
92.5°	132.1	137.8	154.9	146.0	189.2	239.0	267.5	239.0	193.3	159.8	138.6
95°	101.2	103.6	115.9	107.6	137.8	172.9	190.0	172.9	141.2	119.8	105.2
97.5°	80.0	81.6	90.5	84.0	103.6	128.9	141.9	129.7	108.5	93.9	82.4
100°	64.5	65.2	72.5	69.4	83.1	101.2	110.2	101.9	87.3	75.1	66.1
102.5°	52.2	52.2	59.5	57.9	68.5	81.6	88.1	84.0	71.8	61.1	52.2
105°	41.6	41.6	48.1	48.1	57.2	66.8	72.5	68.5	58.8	48.9	41.6
107.5°	32.7	33.5	38.4	38.4	47.3	55.5	59.5	56.3	48.1	38.4	32.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	26.1	26.9	31.0	31.8	39.2	46.6	49.7	46.6	39.2	30.1	25.2
112.5°	21.2	21.2	25.2	25.2	31.8	38.4	40.8	38.4	31.8	23.7	20.4
115°	17.9	17.9	20.4	20.4	26.1	31.8	34.3	31.8	25.2	19.5	17.2
117.5°	15.6	15.6	17.2	17.2	22.1	26.9	28.5	26.1	21.2	16.3	14.6
120°	13.8	13.8	14.6	14.6	17.9	22.1	23.7	22.1	17.2	13.8	13.0
122.5°	12.2	12.2	13.0	12.2	15.6	18.8	19.5	17.9	14.6	12.2	11.5
125°	11.5	11.5	11.5	10.6	13.0	15.6	16.3	14.6	12.2	10.6	10.6
127.5°	9.9	9.9	9.9	9.0	10.6	13.0	13.8	12.2	10.6	9.9	9.0
130°	9.0	9.0	9.0	8.2	9.9	10.6	11.5	10.6	9.0	9.0	9.0
132.5°	8.2	8.2	8.2	7.3	8.2	9.0	9.0	8.2	7.3	7.3	8.2
135°	7.3	7.3	7.3	6.5	6.5	6.5	7.3	6.5	6.5	6.5	7.3
137.5°	6.5	6.5	6.5	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.5
140°	5.7	5.7	5.7	4.1	4.9	4.1	4.1	4.1	4.9	4.9	5.7
142.5°	4.9	4.9	4.1	4.1	4.1	3.3	2.4	3.3	3.3	4.1	4.9
145°	4.1	4.1	3.3	3.3	3.3	2.4	1.6	1.6	3.3	3.3	3.3
147.5°	3.3	3.3	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	3.3
150°	2.4	2.4	1.6	1.6	1.6	0.8	0.8	0.8	1.6	1.6	2.4
152.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.0	0.8	0.8	1.6	1.6
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	90°
0°	124.8
2.5°	126.4
5°	133.0
7.5°	142.7
10°	157.5
12.5°	177.9
15°	203.1
17.5°	236.5
20°	278.2
22.5°	326.2
25°	378.5
27.5°	435.6
30°	495.2
32.5°	559.5
35°	624.9
37.5°	689.2
40°	758.6
42.5°	828.7
45°	907.1
47.5°	997.5
50°	1101.3
52.5°	1208.1
55°	1321.4
57.5°	1452.7
60°	1591.4
62.5°	1726.9
65°	1843.4
67.5°	1934.0
69°	1954.4
70°	1947.9
72.5°	1848.3
75°	1637.1
77.5°	1340.2
80°	986.2
82.5°	675.4
85°	448.6
87.5°	287.2
90°	188.5
92.5°	134.6
95°	101.9
97.5°	80.8
100°	64.5
102.5°	52.2
105°	40.8
107.5°	31.8



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**CANDELA DISTRIBUTION (continued):**

	90°
110°	25.2
112.5°	20.4
115°	17.2
117.5°	14.6
120°	12.2
122.5°	11.5
125°	10.6
127.5°	9.0
130°	9.0
132.5°	8.2
135°	7.3
137.5°	6.5
140°	5.7
142.5°	4.9
145°	4.1
147.5°	2.4
150°	2.4
152.5°	1.6
155°	0.8
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)