

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: P240376

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240376
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-AF24-80-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7802.1 lumens
Efficiency: N/A
Efficacy: 94.0 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): 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



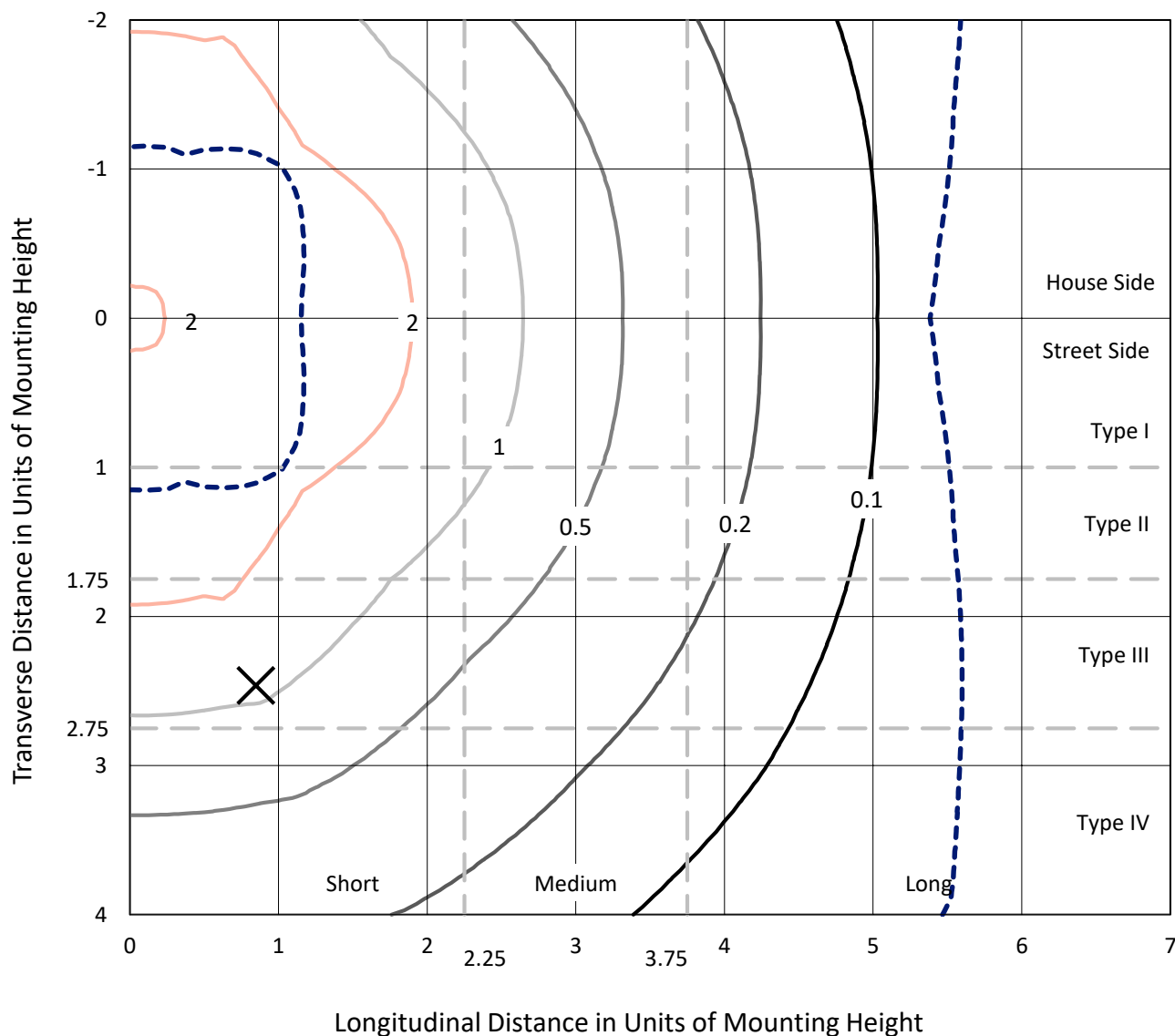
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

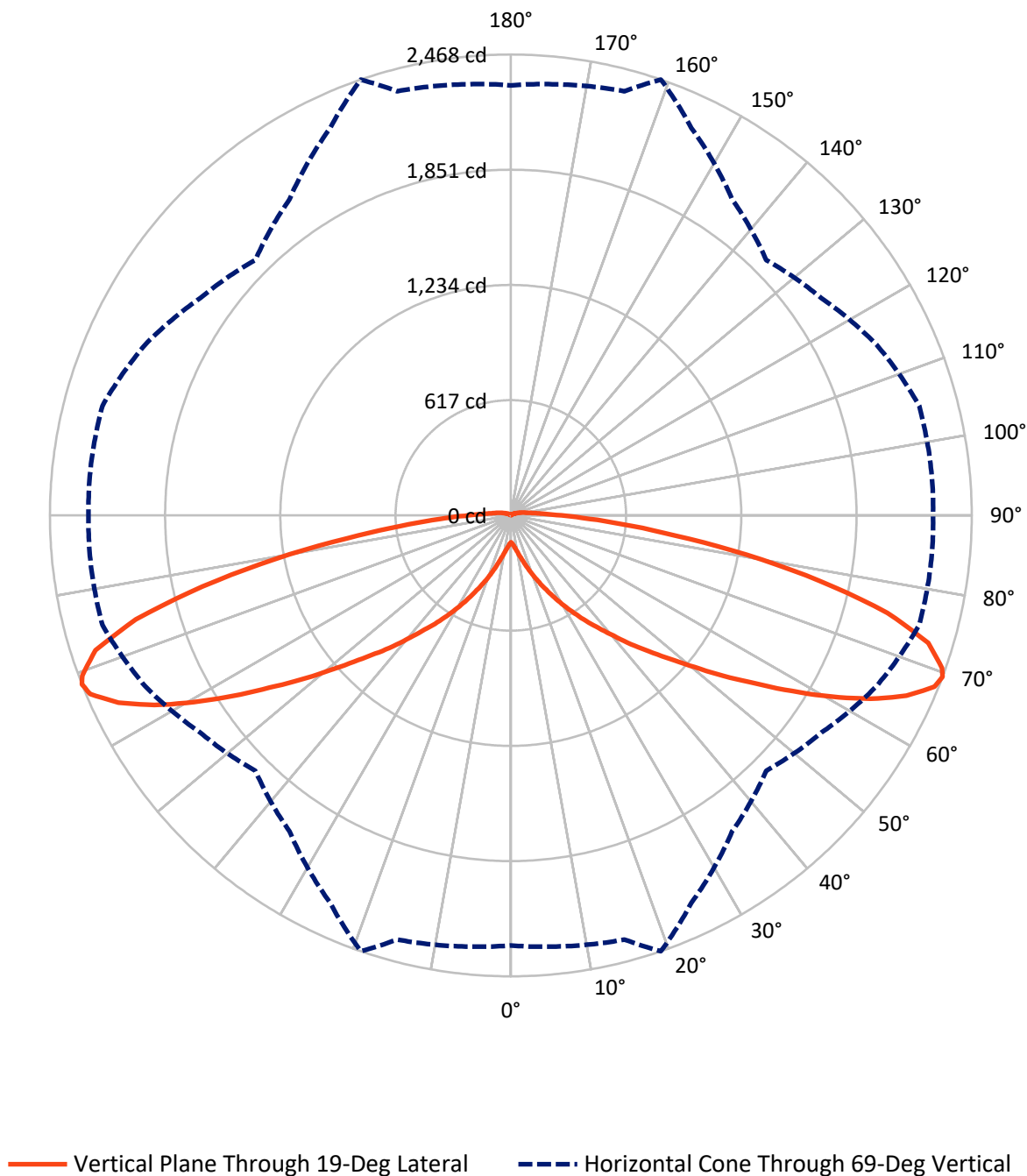


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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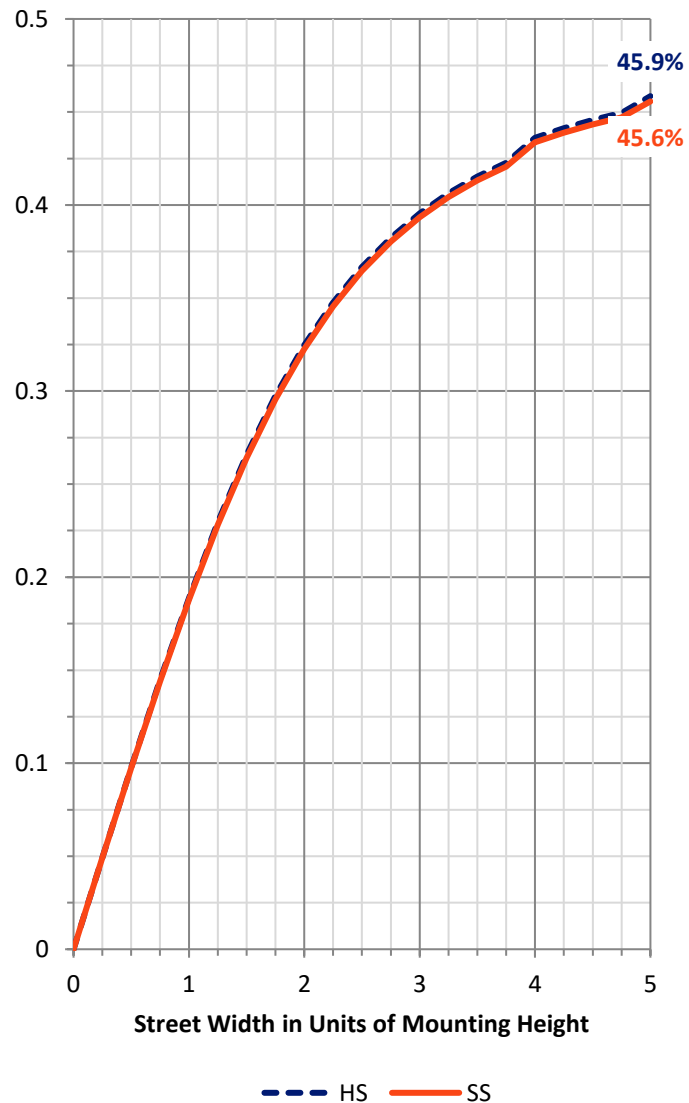
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.8	158.3	3901.0
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3742.8	158.3	3901.0
	% Fixture	48.0	2.0	50.0
Total	Lumens	7485.5	316.5	7802.1
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.2
10°-20°	69.7	0.9
20°-30°	190.0	2.4
30°-40°	401.8	5.1
40°-50°	733.6	9.4
50°-60°	1281.3	16.4
60°-70°	2008.5	25.7
70°-80°	1981.4	25.4
80°-90°	803.5	10.3
90°-100°	193.6	2.5
100°-110°	70.7	0.9
110°-120°	29.7	0.4
120°-130°	13.6	0.2
130°-140°	6.4	0.1
140°-150°	2.2	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7485.5	95.9
0°-180°	7802.1	100.0

Coefficient of Utilization



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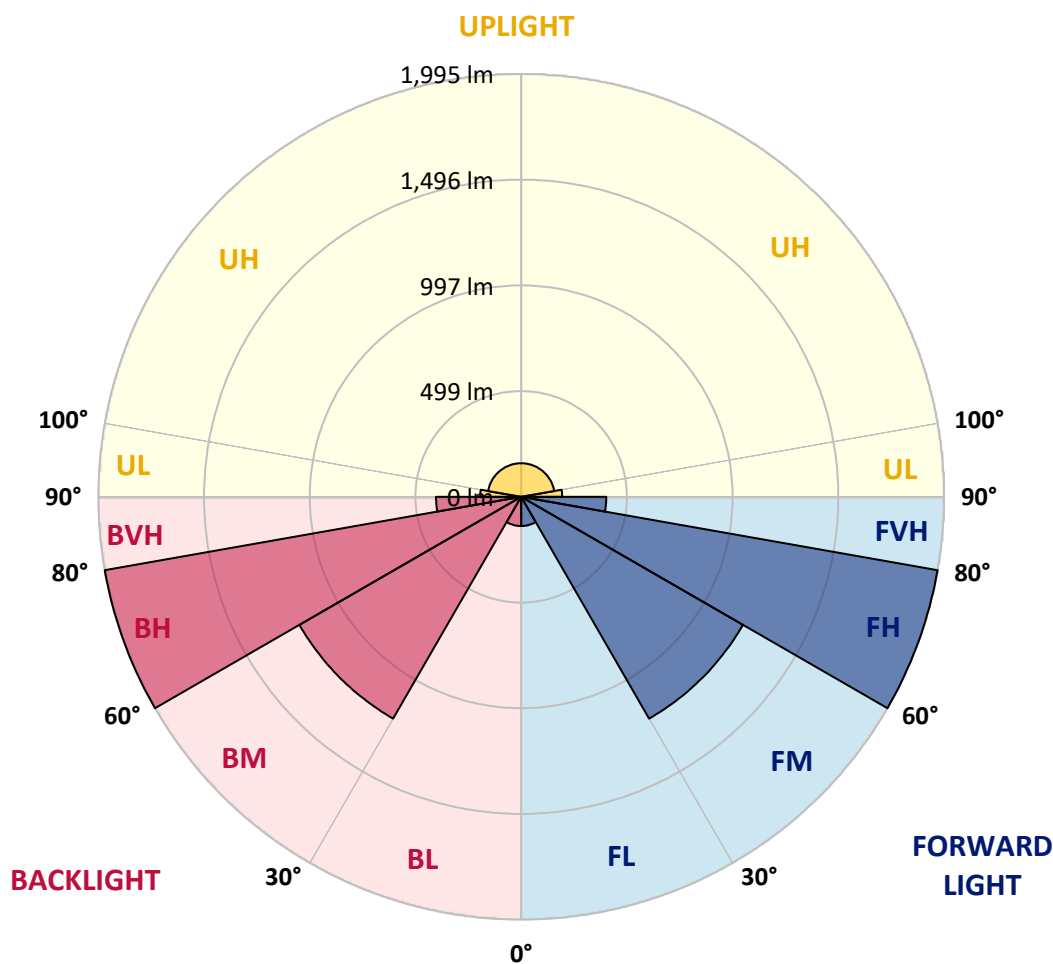
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.7	1.8			
FM	(30°-60°)	1208.3	15.5			
FH	(60°-80°)	1995.0	25.6			G2/5000
FVH	(80°-90°)	401.7	5.1			G3/500
BL	(0°-30°)	137.7	1.8	B1/500		
BM	(30°-60°)	1208.3	15.5	B2/2500		
BH	(60°-80°)	1995.0	25.6	B3/2500		G2/5000
BVH	(80°-90°)	401.7	5.1			G3/500
UL	(90°-100°)	193.6	2.5		U3/500	
UH	(100°-180°)	158.3	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°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	147.2	147.2	147.2	151.0	147.2	147.2	147.2	147.2	147.2	147.2	146.3
5°	154.8	154.8	154.8	163.3	154.8	153.9	153.9	154.8	153.9	153.9	153.9
7.5°	169.0	168.0	168.0	179.3	168.0	167.0	166.1	166.1	166.1	165.2	165.2
10°	187.8	186.9	186.0	201.0	185.1	184.0	183.1	182.2	182.2	182.2	183.1
12.5°	212.4	212.4	210.5	227.5	207.7	204.8	203.0	202.0	203.0	203.9	204.8
15°	243.6	244.5	241.6	259.5	235.1	230.3	227.5	227.5	229.3	232.2	235.1
17.5°	285.1	284.1	278.4	300.1	270.9	261.5	254.8	255.8	262.4	270.0	274.7
20°	330.3	327.5	320.9	342.6	309.5	295.4	287.9	289.8	301.1	313.3	320.0
22.5°	380.4	377.6	368.2	389.8	351.1	333.2	325.6	328.5	342.6	360.6	373.8
25°	435.2	434.1	420.9	440.8	395.5	373.8	363.4	370.0	389.8	417.2	433.2
27.5°	495.5	493.7	476.7	498.4	445.5	419.1	406.8	413.4	439.9	475.7	501.2
30°	561.6	559.8	536.1	559.8	498.4	464.4	450.2	460.6	492.8	540.8	569.2
32.5°	632.4	630.5	601.3	623.9	556.9	513.5	494.6	508.7	550.2	603.1	640.9
35°	707.0	702.3	672.1	693.8	619.2	564.5	541.8	563.5	609.8	672.1	714.5
37.5°	787.2	781.5	746.7	765.5	684.4	622.1	596.6	616.3	674.8	740.9	792.9
40°	870.2	865.5	823.1	847.6	758.9	683.3	653.2	677.7	744.7	814.6	868.4
42.5°	958.1	953.3	912.8	943.9	839.1	750.4	715.5	746.7	819.3	896.7	955.2
45°	1048.6	1046.8	1008.1	1038.3	926.0	828.7	789.1	824.9	904.3	990.1	1046.8
47.5°	1159.1	1147.8	1118.5	1147.8	1029.8	925.1	876.0	913.7	1001.5	1094.9	1151.5
50°	1268.6	1266.7	1241.2	1277.1	1146.8	1024.1	970.3	1013.7	1113.8	1210.0	1263.9
52.5°	1398.9	1402.6	1375.3	1429.1	1282.8	1149.7	1085.5	1134.6	1246.0	1339.3	1392.2
55°	1538.5	1540.5	1529.1	1586.7	1429.1	1279.9	1212.0	1265.8	1380.0	1482.9	1532.9
57.5°	1700.9	1699.0	1695.2	1774.5	1600.8	1435.6	1351.6	1416.8	1535.7	1639.5	1681.0
60°	1861.4	1861.4	1870.8	1969.9	1782.1	1596.1	1498.9	1573.5	1699.0	1808.5	1838.7
62.5°	2035.1	2037.8	2046.3	2162.4	1955.8	1759.4	1648.1	1729.2	1870.8	1971.7	1996.3
65°	2176.6	2189.8	2208.7	2328.5	2128.5	1907.6	1790.6	1876.4	2021.8	2121.9	2136.9
67.5°	2279.4	2286.1	2322.0	2446.6	2255.9	2025.5	1897.2	1986.0	2129.4	2231.4	2240.8
69°	2303.1	2318.2	2351.3	2468.3	2289.0	2066.2	1934.0	2029.3	2161.5	2264.4	2264.4
70°	2292.7	2311.6	2351.3	2450.4	2296.5	2079.4	1950.1	2038.8	2168.1	2263.5	2260.6
72.5°	2178.5	2191.7	2259.7	2338.1	2238.9	2053.0	1942.5	2019.0	2109.6	2175.6	2158.6
75°	1937.8	1951.0	2027.5	2083.1	2058.6	1928.4	1850.0	1900.0	1943.5	1950.1	1917.9
77.5°	1565.9	1585.8	1691.4	1695.2	1768.9	1717.8	1676.3	1694.3	1666.9	1636.7	1566.9
80°	1181.7	1195.9	1293.1	1283.7	1405.4	1437.6	1432.8	1422.4	1340.3	1245.0	1166.7
82.5°	819.3	830.6	927.8	884.4	1043.9	1121.4	1148.7	1112.9	988.3	880.7	810.8
85°	524.8	543.7	620.1	591.8	733.4	826.9	867.5	811.7	693.8	589.9	531.4
87.5°	339.8	347.4	403.0	379.4	487.0	583.3	626.8	581.4	476.7	389.8	340.7
90°	219.0	227.5	262.4	244.5	325.6	401.2	437.9	395.5	322.8	261.5	227.5
92.5°	152.9	159.5	179.3	169.0	219.0	276.6	309.5	276.6	223.7	185.1	160.5
95°	117.0	119.9	134.0	124.6	159.5	200.1	219.9	200.1	163.3	138.7	121.7
97.5°	92.5	94.4	104.8	97.2	119.9	149.1	164.3	150.1	125.5	108.5	95.3
100°	74.6	75.5	84.0	80.2	96.3	117.0	127.5	117.9	101.0	86.8	76.4
102.5°	60.5	60.5	68.9	67.0	79.3	94.4	102.0	97.2	83.1	70.8	60.5
105°	48.2	48.2	55.6	55.6	66.1	77.4	84.0	79.3	67.9	56.7	48.2
107.5°	37.7	38.7	44.4	44.4	54.7	64.1	68.9	65.2	55.6	44.4	37.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	30.2	31.1	35.9	36.8	45.3	53.8	57.6	53.8	45.3	34.9	29.3
112.5°	24.6	24.6	29.3	29.3	36.8	44.4	47.2	44.4	36.8	27.4	23.6
115°	20.8	20.8	23.6	23.6	30.2	36.8	39.7	36.8	29.3	22.6	19.8
117.5°	17.9	17.9	19.8	19.8	25.5	31.1	33.0	30.2	24.6	18.9	17.0
120°	16.1	16.1	17.0	17.0	20.8	25.5	27.4	25.5	19.8	16.1	15.1
122.5°	14.1	14.1	15.1	14.1	17.9	21.7	22.6	20.8	17.0	14.1	13.2
125°	13.2	13.2	13.2	12.3	15.1	17.9	18.9	17.0	14.1	12.3	12.3
127.5°	11.4	11.4	11.4	10.3	12.3	15.1	16.1	14.1	12.3	11.4	10.3
130°	10.3	10.3	10.3	9.4	11.4	12.3	13.2	12.3	10.3	10.3	10.3
132.5°	9.4	9.4	9.4	8.5	9.4	10.3	10.3	9.4	8.5	8.5	9.4
135°	8.5	8.5	8.5	7.6	7.6	7.6	8.5	7.6	7.6	7.6	8.5
137.5°	7.6	7.6	7.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.6
140°	6.6	6.6	6.6	4.7	5.6	4.7	4.7	4.7	5.6	5.6	6.6
142.5°	5.6	5.6	4.7	4.7	4.7	3.8	2.9	3.8	3.8	4.7	5.6
145°	4.7	4.7	3.8	3.8	3.8	2.9	1.8	1.8	3.8	3.8	3.8
147.5°	3.8	3.8	2.9	2.9	2.9	1.8	0.9	1.8	2.9	2.9	3.8
150°	2.9	2.9	1.8	1.8	1.8	0.9	0.9	0.9	1.8	1.8	2.9
152.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.0	0.9	0.9	1.8	1.8
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9
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°	144.4
2.5°	146.3
5°	153.9
7.5°	165.2
10°	182.2
12.5°	205.8
15°	235.1
17.5°	273.7
20°	321.8
22.5°	377.6
25°	437.9
27.5°	504.0
30°	573.0
32.5°	647.5
35°	723.0
37.5°	797.6
40°	877.8
42.5°	959.0
45°	1049.6
47.5°	1154.4
50°	1274.3
52.5°	1397.9
55°	1529.1
57.5°	1681.0
60°	1841.5
62.5°	1998.2
65°	2133.2
67.5°	2237.9
69°	2261.5
70°	2254.0
72.5°	2138.9
75°	1894.4
77.5°	1550.8
80°	1141.2
82.5°	781.5
85°	519.1
87.5°	332.3
90°	218.0
92.5°	155.7
95°	117.9
97.5°	93.4
100°	74.6
102.5°	60.5
105°	47.2
107.5°	36.8



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CANDELA DISTRIBUTION (continued):

	90°
110°	29.3
112.5°	23.6
115°	19.8
117.5°	17.0
120°	14.1
122.5°	13.2
125°	12.3
127.5°	10.3
130°	10.3
132.5°	9.4
135°	8.5
137.5°	7.6
140°	6.6
142.5°	5.6
145°	4.7
147.5°	2.9
150°	2.9
152.5°	1.8
155°	0.9
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)