

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: P266464

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266464
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 6627 lumens
Efficiency: N/A
Efficacy: 79.8 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

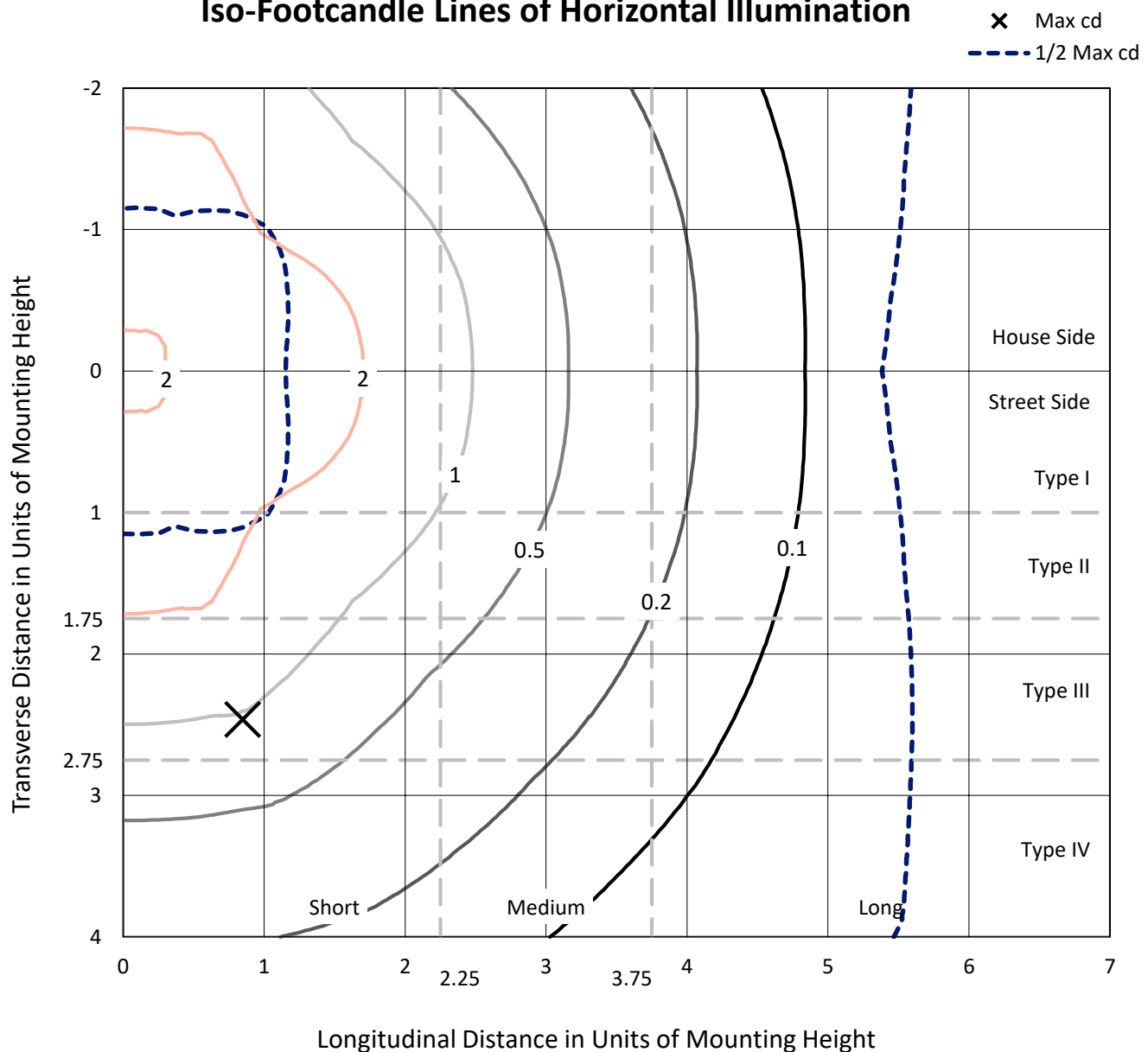
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

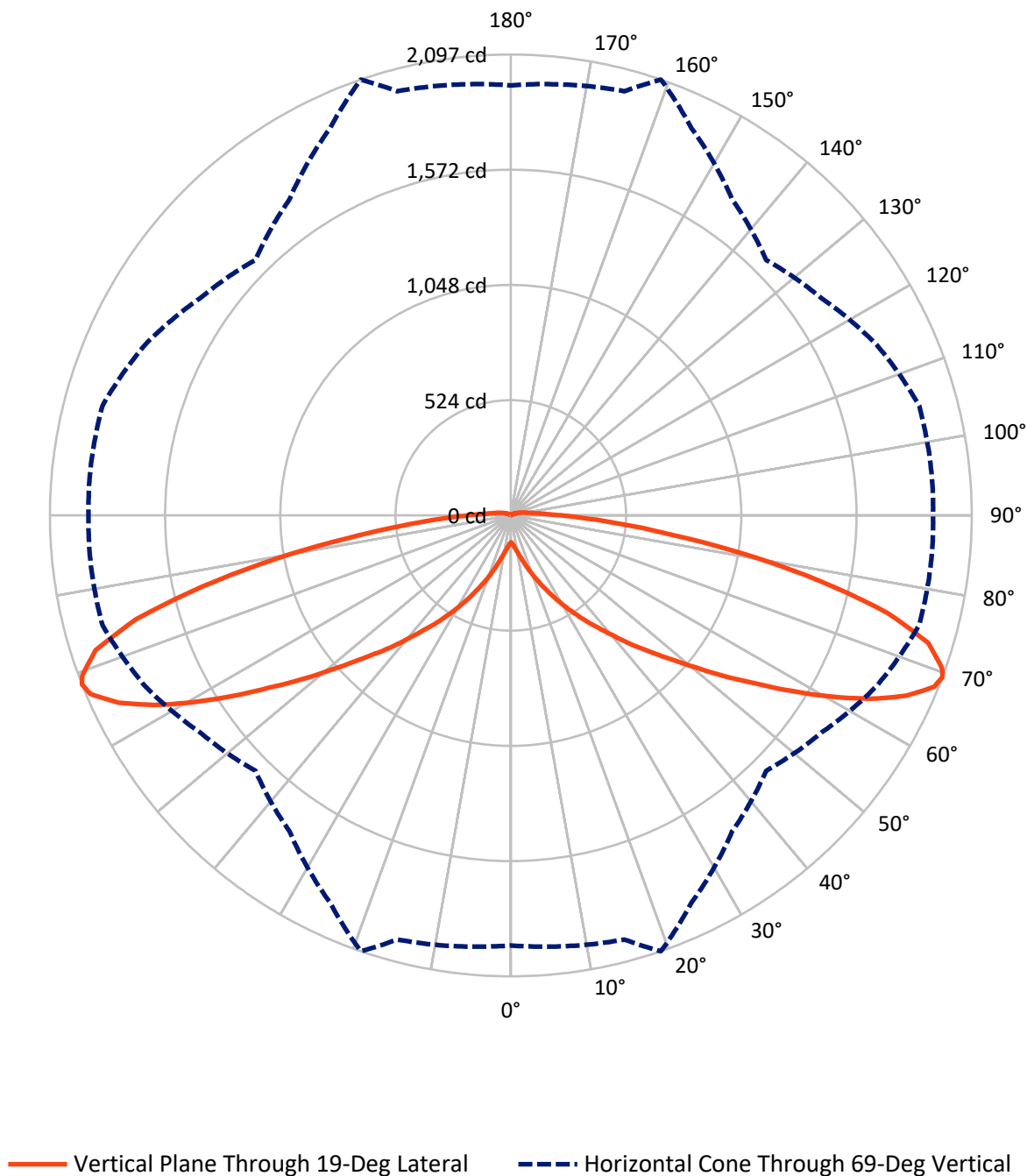


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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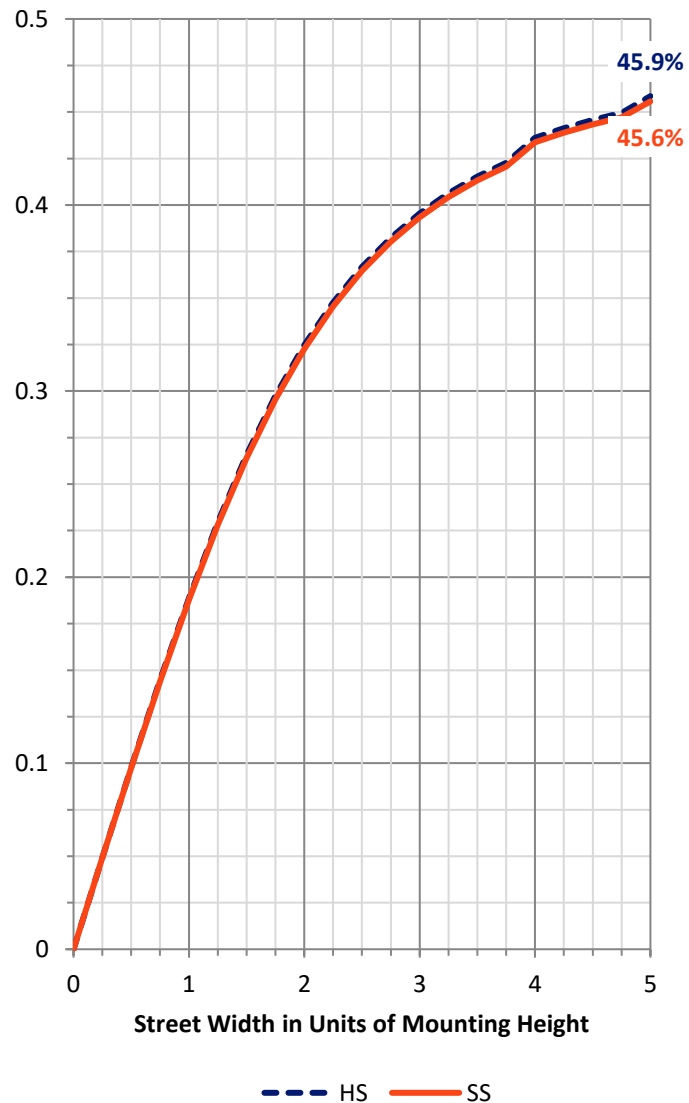
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3179.0	134.4	3313.5
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3179.0	134.4	3313.5
	% Fixture	48.0	2.0	50.0
Total	Lumens	6358.1	268.9	6627.0
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.2
10°-20°	59.2	0.9
20°-30°	161.4	2.4
30°-40°	341.3	5.1
40°-50°	623.1	9.4
50°-60°	1088.3	16.4
60°-70°	1706.0	25.7
70°-80°	1683.0	25.4
80°-90°	682.5	10.3
90°-100°	164.5	2.5
100°-110°	60.0	0.9
110°-120°	25.2	0.4
120°-130°	11.6	0.2
130°-140°	5.4	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°	6358.1	95.9
0°-180°	6627.0	100.0

Coefficient of Utilization



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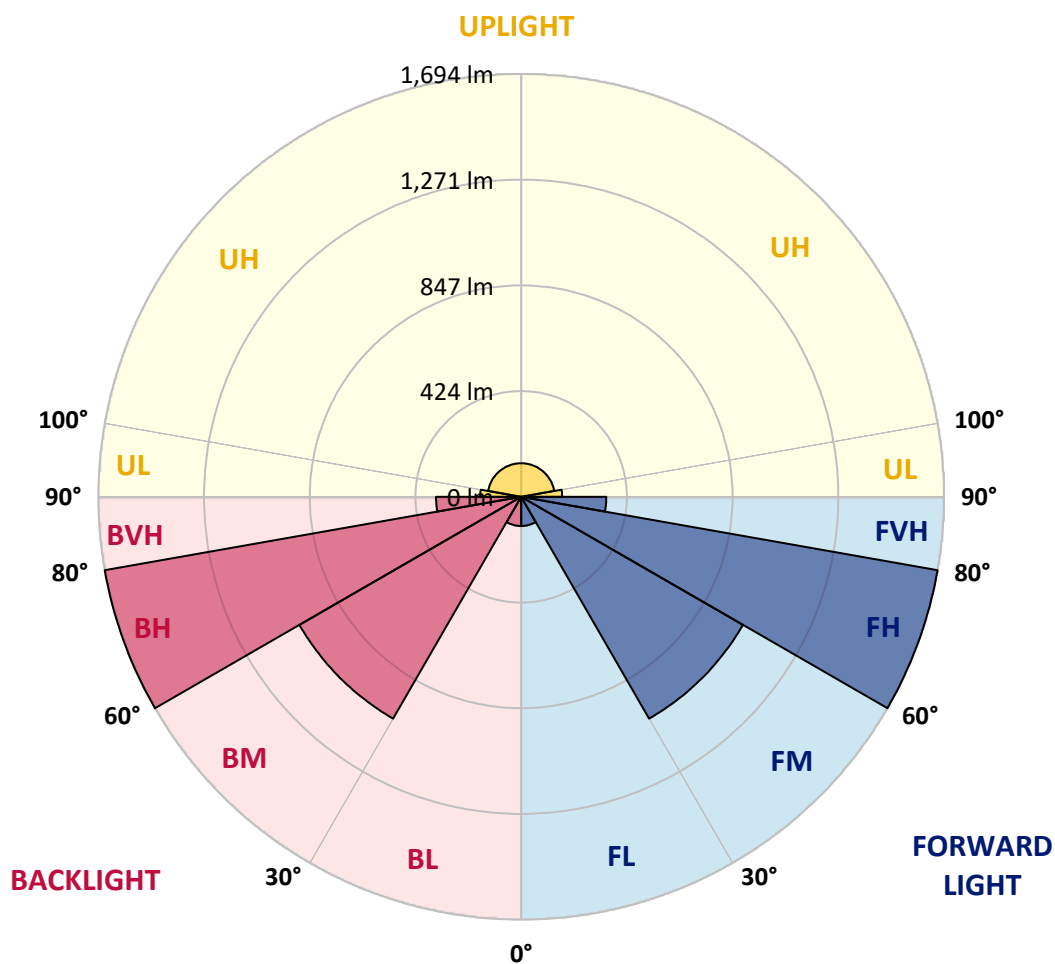
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.0	1.8			
FM	(30°-60°)	1026.3	15.5			
FH	(60°-80°)	1694.5	25.6			G1/1800
FVH	(80°-90°)	341.2	5.1			G3/500
BL	(0°-30°)	117.0	1.8	B1/500		
BM	(30°-60°)	1026.3	15.5	B2/2500		
BH	(60°-80°)	1694.5	25.6	B3/2500		G1/1800
BVH	(80°-90°)	341.2	5.1			G3/500
UL	(90°-100°)	164.5	2.5		U3/500	
UH	(100°-180°)	134.4	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°	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7
2.5°	125.0	125.0	125.0	128.3	125.0	125.0	125.0	125.0	125.0	125.0	124.2
5°	131.5	131.5	131.5	138.7	131.5	130.7	130.7	131.5	130.7	130.7	130.7
7.5°	143.5	142.7	142.7	152.4	142.7	141.9	141.2	141.2	141.2	140.2	140.2
10°	159.5	158.7	157.9	170.8	157.2	156.3	155.5	154.8	154.8	154.8	155.5
12.5°	180.4	180.4	178.9	193.2	176.3	174.0	172.4	171.5	172.4	173.2	174.0
15°	206.8	207.7	205.3	220.4	199.7	195.7	193.2	193.2	194.8	197.2	199.7
17.5°	242.2	241.4	236.6	254.9	230.1	222.2	216.5	217.3	222.9	229.2	233.3
20°	280.6	278.1	272.5	291.1	262.9	250.9	244.5	246.1	255.7	266.2	271.7
22.5°	323.1	320.6	312.7	331.1	298.2	283.0	276.6	279.1	291.1	306.2	317.6
25°	369.7	368.8	357.5	374.5	336.0	317.6	308.7	314.2	331.1	354.3	367.9
27.5°	420.9	419.2	404.9	423.3	378.5	356.0	345.6	351.1	373.6	404.1	425.6
30°	477.0	475.5	455.4	475.5	423.3	394.4	382.4	391.2	418.5	459.5	483.5
32.5°	537.1	535.6	510.6	529.9	473.0	436.1	420.0	432.2	467.4	512.4	544.4
35°	600.4	596.5	570.9	589.3	526.0	479.4	460.2	478.6	518.0	570.9	607.0
37.5°	668.7	663.8	634.2	650.3	581.3	528.4	506.7	523.5	573.2	629.4	673.5
40°	739.1	735.3	699.2	719.9	644.5	580.5	554.9	575.6	632.5	691.9	737.6
42.5°	813.8	809.7	775.2	801.7	712.7	637.3	607.8	634.2	695.8	761.7	811.3
45°	890.7	889.1	856.3	881.9	786.5	703.9	670.2	700.7	768.1	841.1	889.1
47.5°	984.5	974.9	950.0	974.9	874.7	785.7	743.9	776.0	850.7	929.9	978.2
50°	1077.5	1075.9	1054.3	1084.8	974.1	869.9	824.1	861.0	946.0	1027.8	1073.6
52.5°	1188.2	1191.3	1168.2	1213.8	1089.6	976.5	922.0	963.7	1058.3	1137.7	1182.6
55°	1306.9	1308.4	1298.8	1347.6	1213.8	1087.2	1029.4	1075.1	1172.1	1259.6	1302.1
57.5°	1444.7	1443.0	1440.0	1507.3	1359.8	1219.4	1148.0	1203.4	1304.3	1392.6	1427.9
60°	1580.9	1580.9	1589.0	1673.3	1513.6	1355.7	1273.2	1336.5	1443.0	1536.1	1561.8
62.5°	1728.5	1730.9	1738.1	1836.8	1661.1	1494.4	1399.7	1468.8	1589.0	1674.8	1695.6
65°	1848.8	1860.0	1876.0	1977.9	1807.8	1620.4	1520.9	1593.9	1717.3	1802.3	1815.1
67.5°	1936.1	1941.7	1972.3	2078.0	1916.2	1720.6	1611.5	1686.8	1808.6	1895.2	1903.2
69°	1956.1	1969.1	1997.1	2096.6	1944.2	1755.0	1642.7	1723.7	1836.0	1923.4	1923.4
70°	1947.3	1963.4	1997.1	2081.3	1950.6	1766.2	1656.4	1731.8	1841.5	1922.6	1920.1
72.5°	1850.4	1861.6	1919.3	1985.9	1901.7	1743.8	1649.9	1714.9	1791.8	1848.0	1833.5
75°	1646.0	1657.2	1722.1	1769.4	1748.6	1637.9	1571.3	1613.8	1650.7	1656.4	1629.0
77.5°	1330.1	1346.9	1436.7	1440.0	1502.4	1459.1	1423.9	1439.2	1415.9	1390.1	1330.8
80°	1003.8	1015.9	1098.4	1090.4	1193.8	1221.1	1217.1	1208.2	1138.4	1057.5	990.9
82.5°	695.8	705.4	788.2	751.3	886.6	952.5	975.6	945.2	839.3	748.0	688.7
85°	445.7	461.8	526.8	502.7	623.0	702.4	736.8	689.4	589.3	501.1	451.4
87.5°	288.6	295.1	342.3	322.3	413.7	495.4	532.3	493.9	404.9	331.1	289.4
90°	185.9	193.2	222.9	207.7	276.6	340.7	372.0	336.0	274.3	222.2	193.2
92.5°	129.8	135.5	152.4	143.5	185.9	234.8	262.9	234.8	190.0	157.2	136.4
95°	99.4	101.8	113.8	105.8	135.5	170.0	186.8	170.0	138.7	117.9	103.5
97.5°	78.6	80.2	89.0	82.6	101.8	126.8	139.4	127.5	106.5	92.2	80.9
100°	63.3	64.0	71.3	68.1	81.7	99.4	108.2	100.3	85.8	73.8	64.9
102.5°	51.4	51.4	58.5	57.0	67.4	80.2	86.5	82.6	70.5	60.1	51.4
105°	41.0	41.0	47.3	47.3	56.1	65.8	71.3	67.4	57.8	48.1	41.0
107.5°	32.1	32.9	37.6	37.6	46.5	54.4	58.5	55.3	47.3	37.6	32.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	25.6	26.5	30.5	31.4	38.4	45.8	48.9	45.8	38.4	29.6	24.9
112.5°	20.8	20.8	24.9	24.9	31.4	37.6	40.1	37.6	31.4	23.3	20.0
115°	17.6	17.6	20.0	20.0	25.6	31.4	33.6	31.4	24.9	19.3	16.9
117.5°	15.2	15.2	16.9	16.9	21.6	26.5	28.0	25.6	20.8	16.0	14.5
120°	13.7	13.7	14.5	14.5	17.6	21.6	23.3	21.6	16.9	13.7	12.8
122.5°	12.0	12.0	12.8	12.0	15.2	18.4	19.3	17.6	14.5	12.0	11.1
125°	11.1	11.1	11.1	10.4	12.8	15.2	16.0	14.5	12.0	10.4	10.4
127.5°	9.6	9.6	9.6	8.9	10.4	12.8	13.7	12.0	10.4	9.6	8.9
130°	8.9	8.9	8.9	8.1	9.6	10.4	11.1	10.4	8.9	8.9	8.9
132.5°	8.1	8.1	8.1	7.2	8.1	8.9	8.9	8.1	7.2	7.2	8.1
135°	7.2	7.2	7.2	6.4	6.4	6.4	7.2	6.4	6.4	6.4	7.2
137.5°	6.4	6.4	6.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.4
140°	5.6	5.6	5.6	4.0	4.9	4.0	4.0	4.0	4.9	4.9	5.6
142.5°	4.9	4.9	4.0	4.0	4.0	3.2	2.4	3.2	3.2	4.0	4.9
145°	4.0	4.0	3.2	3.2	3.2	2.4	1.5	1.5	3.2	3.2	3.2
147.5°	3.2	3.2	2.4	2.4	2.4	1.5	0.8	1.5	2.4	2.4	3.2
150°	2.4	2.4	1.5	1.5	1.5	0.8	0.8	0.8	1.5	1.5	2.4
152.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.0	0.8	0.8	1.5	1.5
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°	122.7
2.5°	124.2
5°	130.7
7.5°	140.2
10°	154.8
12.5°	174.8
15°	199.7
17.5°	232.5
20°	273.4
22.5°	320.6
25°	372.0
27.5°	428.1
30°	486.6
32.5°	550.0
35°	614.1
37.5°	677.4
40°	745.7
42.5°	814.6
45°	891.5
47.5°	980.5
50°	1082.4
52.5°	1187.4
55°	1298.8
57.5°	1427.9
60°	1564.2
62.5°	1697.3
65°	1811.9
67.5°	1901.0
69°	1920.9
70°	1914.5
72.5°	1816.7
75°	1609.0
77.5°	1317.3
80°	969.4
82.5°	663.8
85°	441.0
87.5°	282.2
90°	185.2
92.5°	132.3
95°	100.3
97.5°	79.4
100°	63.3
102.5°	51.4
105°	40.1
107.5°	31.4



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CANDELA DISTRIBUTION (continued):

	90°
110°	24.9
112.5°	20.0
115°	16.9
117.5°	14.5
120°	12.0
122.5°	11.1
125°	10.4
127.5°	8.9
130°	8.9
132.5°	8.1
135°	7.2
137.5°	6.4
140°	5.6
142.5°	4.9
145°	4.0
147.5°	2.4
150°	2.4
152.5°	1.5
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)