

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: P266394

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266394
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-AF24-60-D-U-5WQ-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5658.2 lumens
Efficiency: N/A
Efficacy: 88.4 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): 64
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



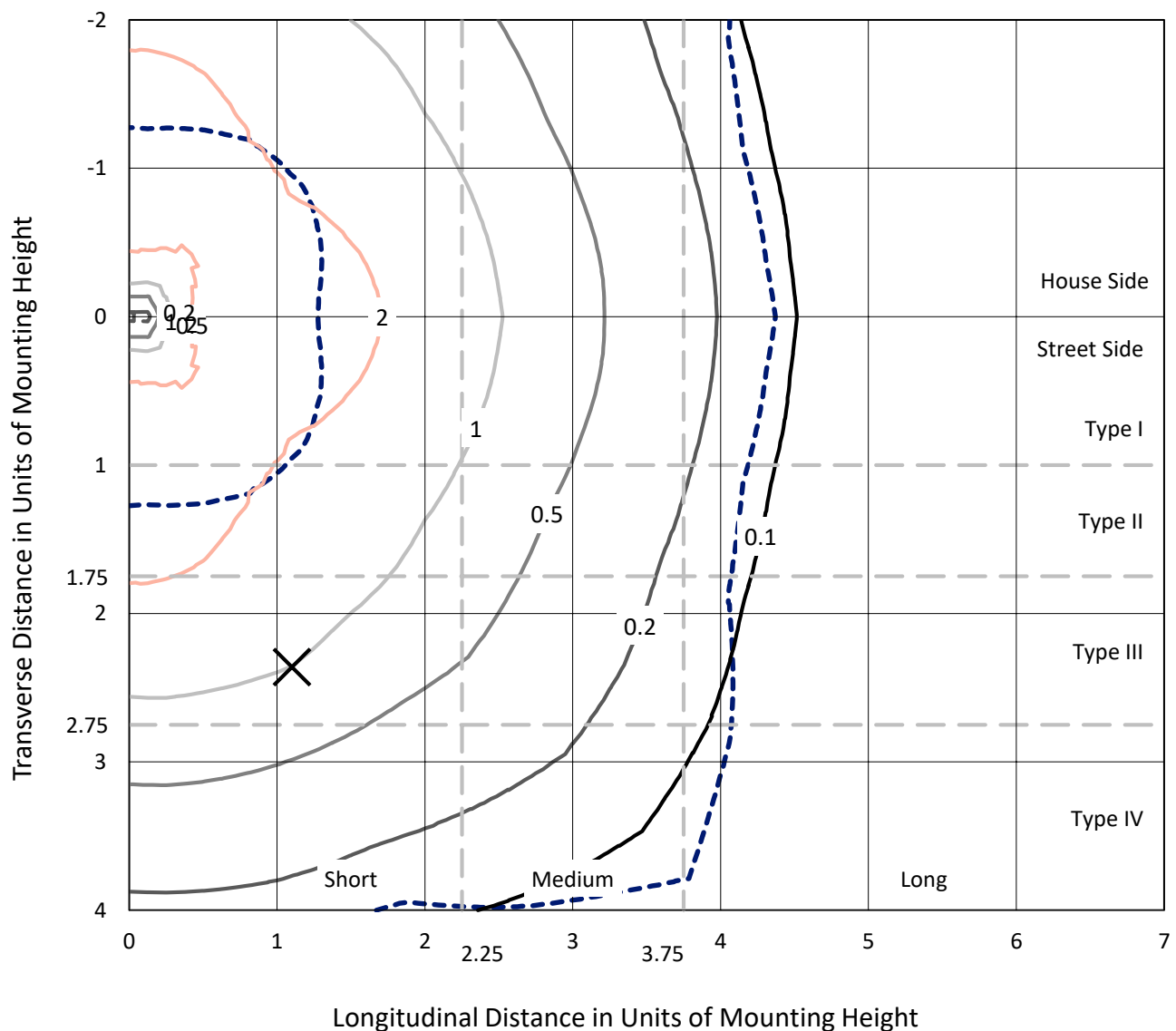
REPORT NUMBER: P266394

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



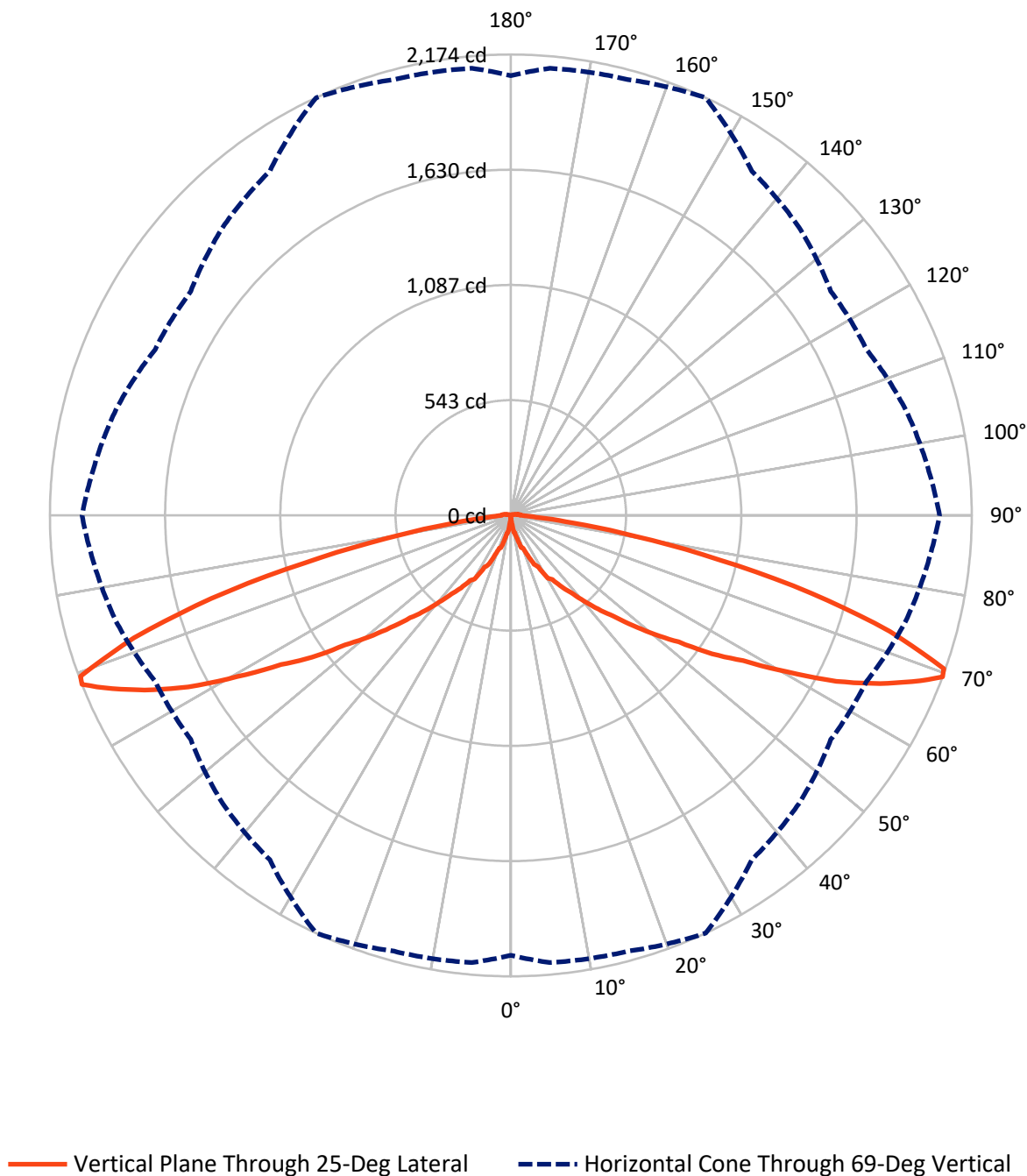
Based on 10 foot mounting height. Maximum calculated value = 3 fc

Type V - Short - Semi-Cutoff

REPORT NUMBER: P266394

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266394

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-CL-7027

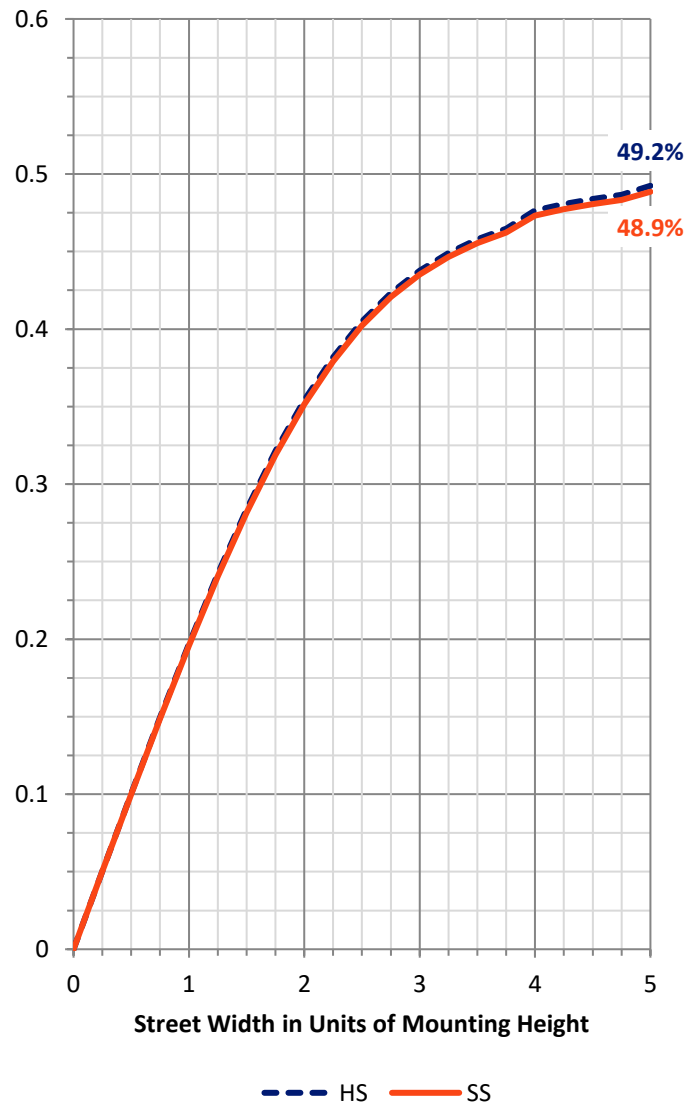
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2793.9	35.2	2829.1
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	2793.9	35.2	2829.1
	% Fixture	49.4	0.6	50.0
Total	Lumens	5587.8	70.4	5658.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	33.4	0.6
20°-30°	124.4	2.2
30°-40°	282.3	5.0
40°-50°	541.3	9.6
50°-60°	1044.0	18.5
60°-70°	1796.1	31.7
70°-80°	1533.1	27.1
80°-90°	230.2	4.1
90°-100°	37.7	0.7
100°-110°	17.1	0.3
110°-120°	6.8	0.1
120°-130°	4.5	0.1
130°-140°	2.7	0.0
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5587.8	98.8
0°-180°	5658.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266394

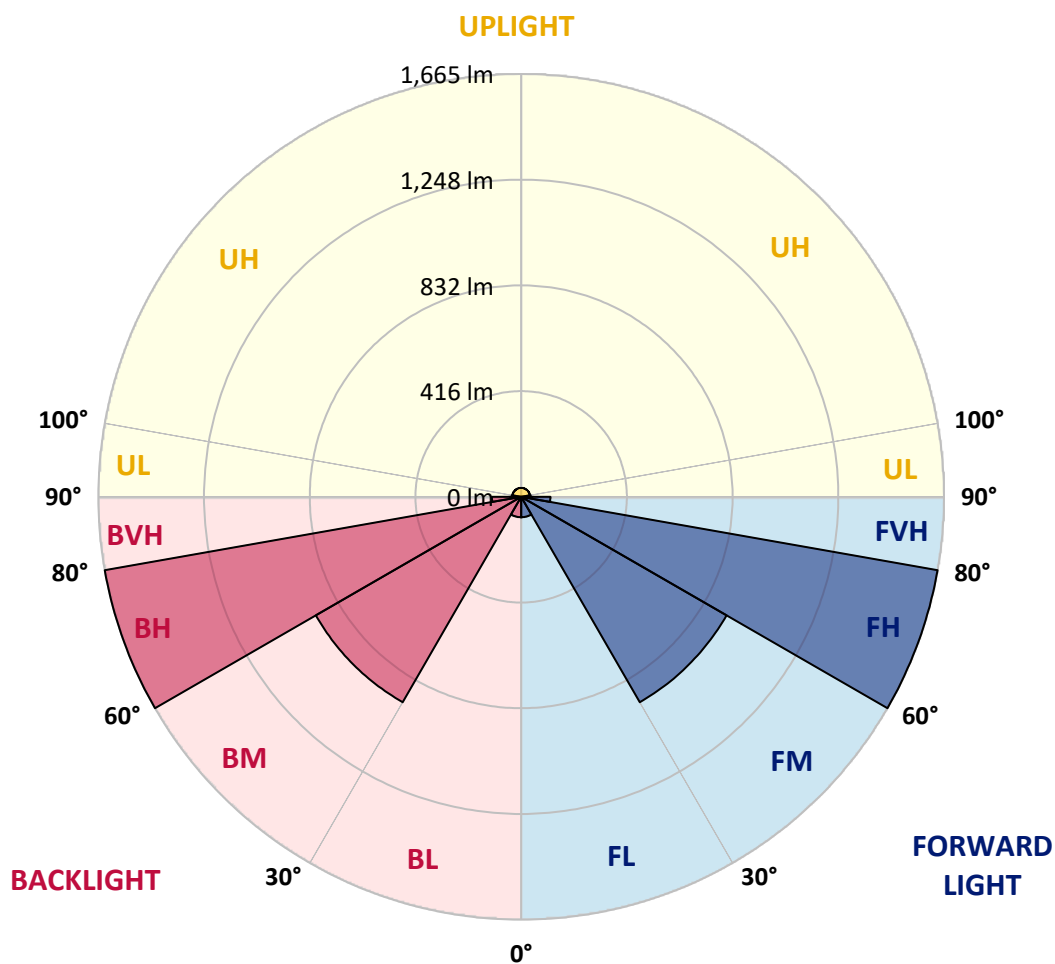
CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.4	1.4			
FM	(30°-60°)	933.8	16.5			
FH	(60°-80°)	1664.6	29.4			G1/1800
FVH	(80°-90°)	115.1	2.0			G2/225
BL	(0°-30°)	80.4	1.4	B0/110		
BM	(30°-60°)	933.8	16.5	B1/1000		
BH	(60°-80°)	1664.6	29.4	B3/2500		G1/1800
BVH	(80°-90°)	115.1	2.0			G2/225
UL	(90°-100°)	37.7	0.7		U2/50	
UH	(100°-180°)	35.2	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short





REPORT NUMBER: P266394

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	25.5	25.5	25.5	24.3	24.3	26.8	18.3	14.5	13.7	11.8	11.8
5°	28.8	29.5	27.5	26.2	25.5	26.8	27.5	25.5	15.7	12.4	11.0
7.5°	48.5	52.5	47.8	42.6	40.7	28.1	24.9	27.5	20.9	13.0	12.4
10°	85.1	84.5	86.4	80.5	58.3	45.2	37.3	25.5	30.8	23.5	22.3
12.5°	86.4	85.1	85.8	85.8	83.2	74.6	54.3	59.6	64.1	68.7	66.1
15°	150.6	148.0	134.8	116.5	83.2	101.5	102.8	106.1	95.6	91.6	89.7
17.5°	170.1	168.3	165.6	159.1	144.6	127.0	125.0	125.0	140.8	159.1	148.6
20°	188.6	184.6	166.9	164.3	177.4	159.8	153.9	186.6	201.7	217.4	211.6
22.5°	264.6	272.4	266.4	205.6	191.8	191.8	214.1	222.6	223.9	231.1	225.8
25°	271.1	275.1	268.5	255.4	242.3	223.9	238.9	248.8	288.7	303.1	299.9
27.5°	344.9	347.6	313.0	274.3	276.9	267.8	269.1	306.4	343.1	345.7	360.1
30°	371.9	375.1	358.2	343.7	305.1	304.4	319.4	344.9	388.2	419.7	445.2
32.5°	455.7	441.2	394.7	361.4	344.4	339.1	350.9	399.3	446.5	472.7	504.0
35°	502.8	509.3	499.5	414.4	375.9	395.4	398.0	417.7	460.9	506.7	525.1
37.5°	578.1	580.0	515.3	463.5	413.1	446.5	460.9	461.5	517.2	571.5	586.7
40°	626.6	645.0	603.0	529.7	460.2	481.2	483.8	539.5	591.3	626.6	650.2
42.5°	698.6	698.0	653.3	604.3	514.5	534.2	546.0	567.0	651.5	694.0	717.6
45°	777.8	776.5	736.5	677.0	598.5	580.0	597.7	657.3	747.7	783.1	771.3
47.5°	877.4	883.3	843.2	775.9	672.4	705.1	682.3	762.8	795.4	840.6	870.1
50°	980.1	986.0	936.9	882.6	772.0	774.5	785.7	848.4	900.2	971.5	1003.0
52.5°	1117.0	1122.2	1073.7	991.2	904.1	912.7	908.0	940.9	1036.5	1110.3	1099.3
55°	1266.9	1265.0	1206.0	1152.3	1076.3	1047.6	1029.8	1115.7	1172.6	1229.5	1241.3
57.5°	1488.1	1465.2	1394.4	1291.8	1208.0	1225.0	1210.6	1235.3	1327.1	1410.9	1433.2
60°	1650.5	1664.9	1613.8	1498.0	1371.6	1365.8	1377.6	1424.6	1490.1	1542.5	1573.2
62.5°	1898.7	1885.0	1822.8	1722.5	1608.7	1615.2	1564.8	1601.4	1640.0	1714.1	1711.5
65°	2010.0	2006.6	1966.1	1913.0	1811.0	1772.3	1723.2	1741.5	1779.5	1819.4	1879.1
67.5°	2080.7	2121.3	2097.7	2081.9	1936.7	1906.6	1799.8	1828.6	1876.4	1928.1	1970.1
69°	2074.0	2116.6	2127.7	2173.5	1981.8	1921.6	1842.3	1850.9	1927.5	1988.9	2021.7
70°	2036.2	2090.4	2091.2	2166.4	1979.9	1970.6	1860.7	1847.5	1940.6	1999.4	2039.4
72.5°	1798.4	1833.8	1859.3	1869.3	1869.8	1972.0	1846.2	1743.5	1824.6	1943.2	1941.9
75°	1390.5	1429.9	1482.3	1464.5	1609.9	1790.0	1669.5	1492.1	1501.8	1567.4	1583.1
77.5°	875.4	879.4	947.4	1001.7	1240.6	1426.6	1304.8	1062.5	951.2	953.2	990.7
80°	500.1	501.6	539.5	595.8	763.4	978.9	804.0	598.5	468.0	461.5	457.6
82.5°	238.9	233.6	248.1	293.9	396.2	494.2	402.0	228.4	182.6	201.0	203.6
85°	85.8	101.5	115.3	131.6	181.9	190.5	141.5	117.1	120.5	113.2	116.5
87.5°	53.7	54.9	65.4	70.6	75.9	79.2	88.5	79.2	80.5	66.7	62.8
90°	38.0	38.6	47.2	48.5	52.5	53.0	51.1	51.1	49.0	38.6	40.0
92.5°	29.5	28.8	36.7	41.2	45.2	42.6	44.6	38.6	37.3	28.1	27.5
95°	36.7	36.7	40.0	42.0	37.3	31.4	36.0	34.8	33.3	24.9	24.3
97.5°	20.9	22.3	30.2	32.1	31.4	25.5	30.8	31.4	30.2	21.6	18.3
100°	18.3	20.3	26.8	28.8	27.5	21.6	27.5	28.8	26.8	19.0	17.0
102.5°	16.3	17.6	22.3	24.9	22.3	16.3	22.3	24.3	22.3	15.7	14.5
105°	13.7	14.5	15.7	18.3	15.7	12.4	16.3	17.6	14.5	12.4	11.8
107.5°	11.8	11.8	11.0	12.4	11.0	9.8	11.8	12.4	10.5	10.5	10.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	11.0	10.5	8.5	8.5	8.5	7.8	8.5	9.2	8.5	9.8	9.8
112.5°	9.8	9.2	7.1	6.6	6.6	6.6	7.1	7.1	7.1	9.2	9.2
115°	9.2	8.5	6.6	5.2	5.8	5.8	5.8	5.8	6.6	8.5	9.2
117.5°	9.2	8.5	5.8	5.2	4.6	4.6	5.2	5.2	6.6	8.5	8.5
120°	8.5	7.8	5.8	4.6	4.0	4.0	4.6	5.2	6.6	8.5	8.5
122.5°	7.8	7.8	5.2	4.0	4.0	4.0	4.0	4.6	5.8	7.8	7.8
125°	7.1	7.1	5.2	4.0	3.2	3.2	4.0	4.6	5.8	7.8	7.8
127.5°	7.1	6.6	5.2	3.2	3.2	3.2	3.2	4.0	5.2	7.1	7.8
130°	6.6	6.6	4.6	3.2	2.6	2.6	3.2	4.0	5.2	6.6	7.1
132.5°	6.6	5.8	4.6	2.6	2.6	2.6	2.6	3.2	4.6	5.8	6.6
135°	5.2	5.2	4.0	2.6	1.9	1.9	2.6	3.2	4.0	5.2	5.8
137.5°	5.2	4.6	4.0	2.6	1.9	1.9	1.9	2.6	4.0	4.6	5.2
140°	4.6	4.6	3.2	2.6	1.9	1.9	1.9	2.6	3.2	4.0	4.6
142.5°	4.0	4.0	3.2	2.6	1.9	1.3	1.9	1.9	2.6	3.2	3.2
145°	4.0	4.0	3.2	1.9	1.3	1.3	1.3	1.9	2.6	2.6	3.2
147.5°	3.2	3.2	2.6	1.9	1.3	0.7	1.3	1.9	1.9	2.6	2.6
150°	2.6	2.6	1.9	1.3	0.7	0.0	0.7	1.3	1.9	1.9	1.9
152.5°	1.9	1.9	1.3	0.7	0.0	0.0	0.0	0.7	1.3	1.3	1.9
155°	1.3	1.3	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)