

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: P266531

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-5WQ-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6695.6 lumens
Efficiency: N/A
Efficacy: 69.7 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 - U4 - G3

Input Watts (W): 96
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



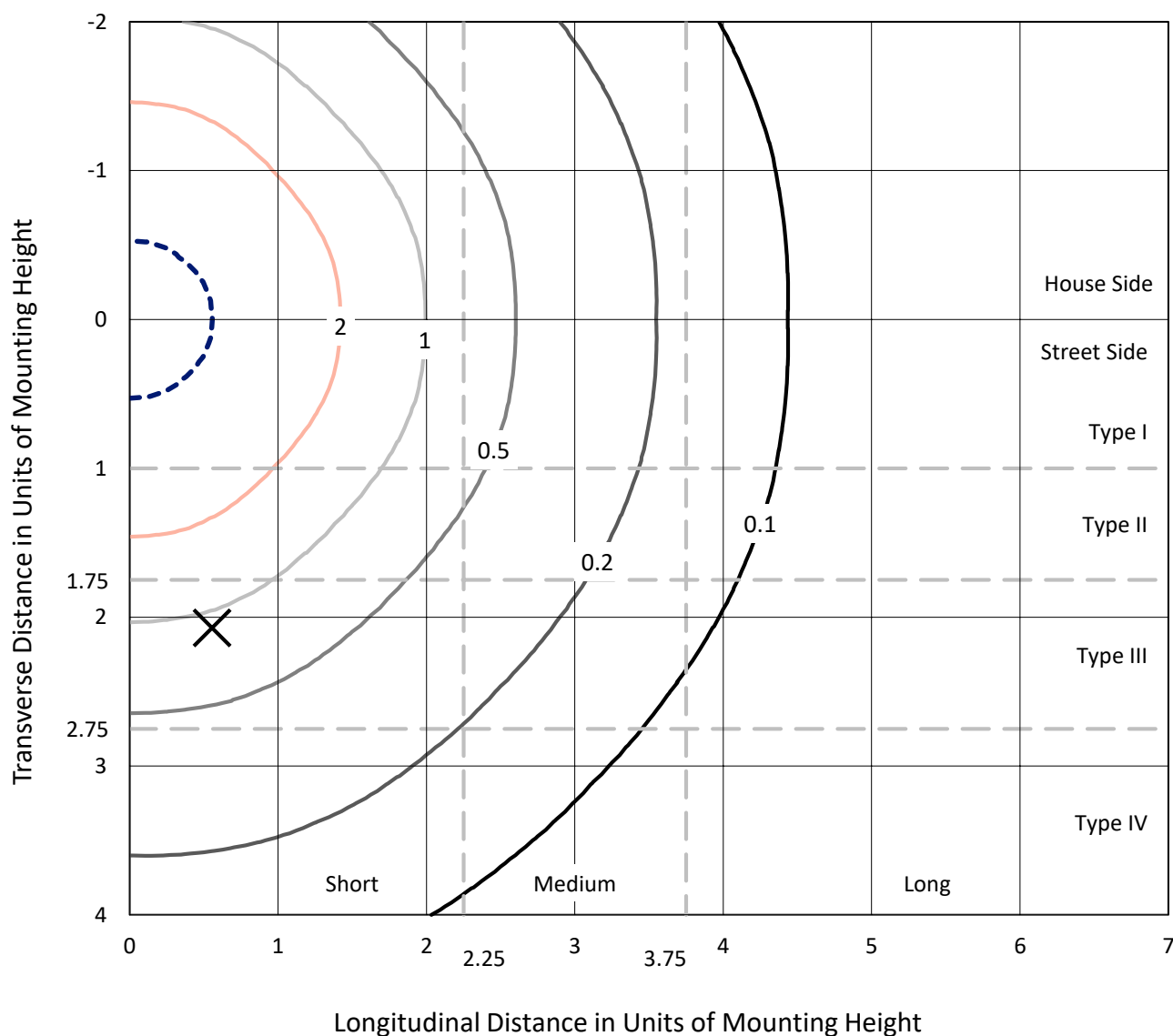
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

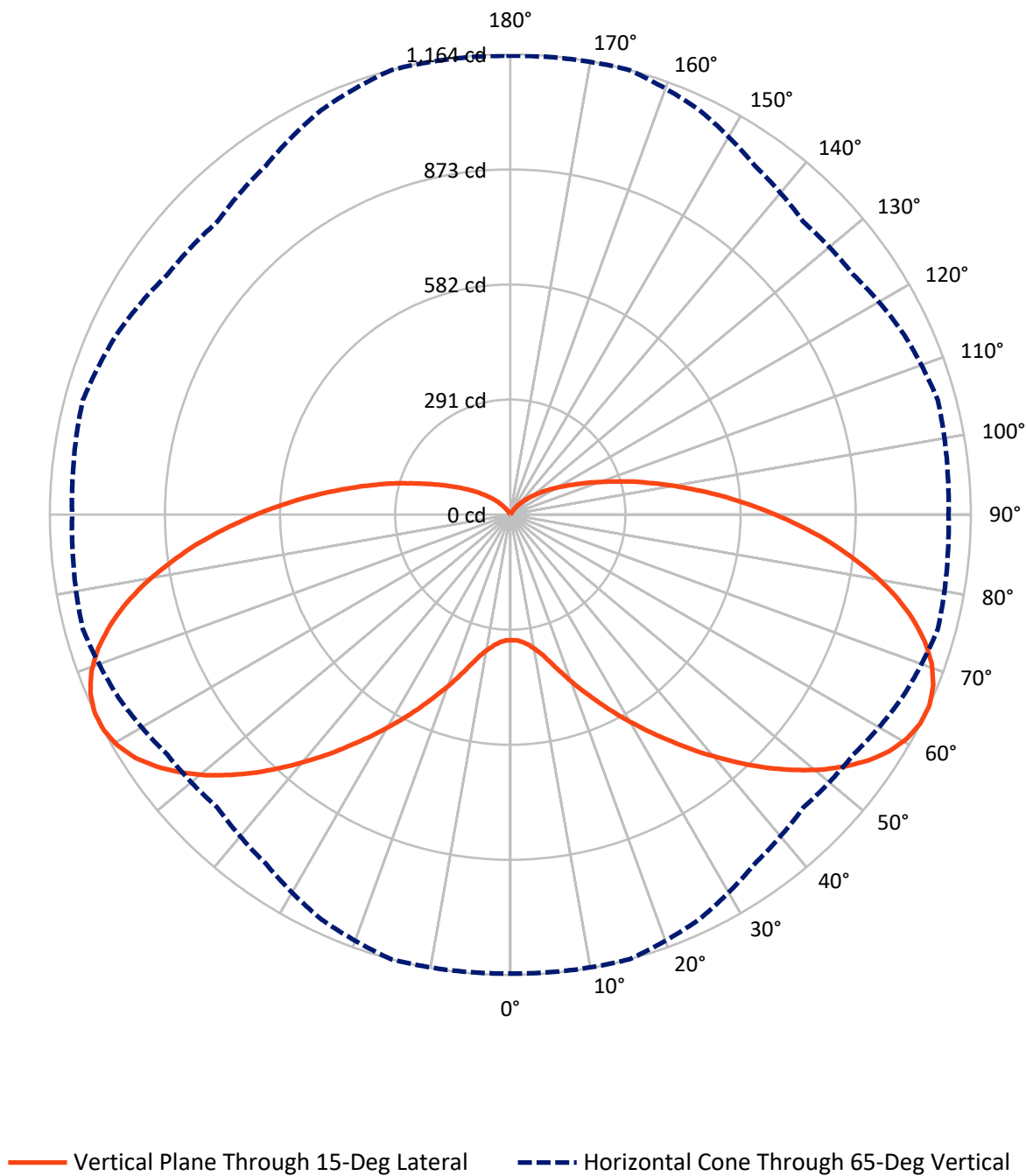


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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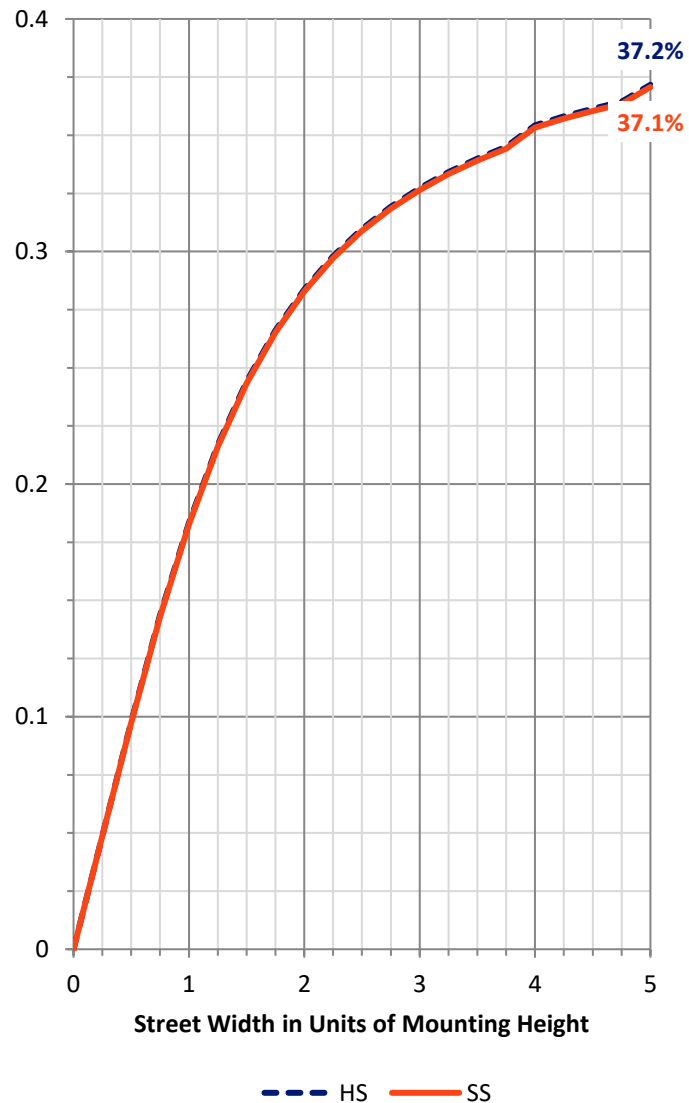
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2724.3	623.5	3347.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2724.3	623.5	3347.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	5448.6	1247.1	6695.6
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	0.5
10°-20°	112.0	1.7
20°-30°	244.9	3.7
30°-40°	441.2	6.6
40°-50°	690.2	10.3
50°-60°	940.1	14.0
60°-70°	1091.0	16.3
70°-80°	1054.0	15.7
80°-90°	843.6	12.6
90°-100°	574.6	8.6
100°-110°	346.7	5.2
110°-120°	189.1	2.8
120°-130°	91.7	1.4
130°-140°	35.7	0.5
140°-150°	8.5	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5448.6	81.4
0°-180°	6695.6	100.0

Coefficient of Utilization



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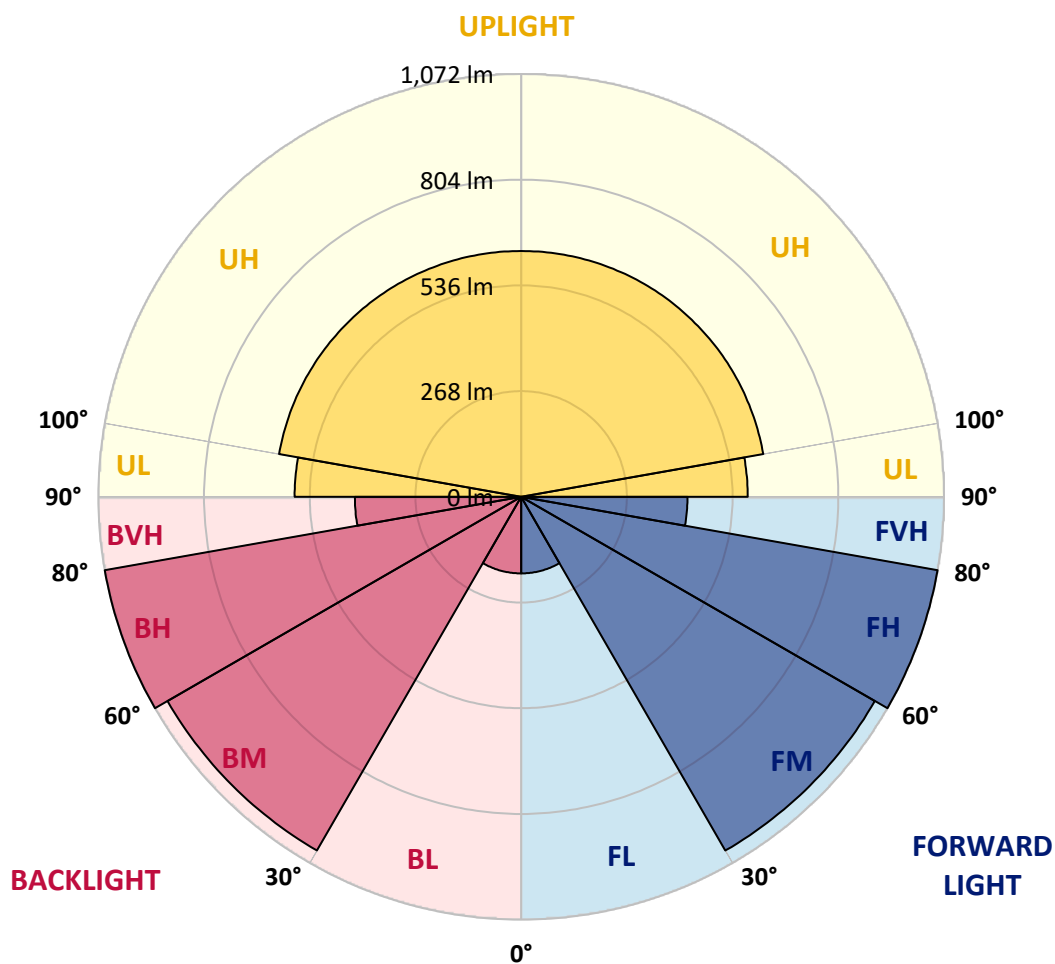
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.3	2.9			
FM	(30°-60°)	1035.8	15.5			
FH	(60°-80°)	1072.5	16.0			G1/1800
FVH	(80°-90°)	421.8	6.3			G3/500
BL	(0°-30°)	194.3	2.9	B1/500		
BM	(30°-60°)	1035.8	15.5	B2/2500		
BH	(60°-80°)	1072.5	16.0	B3/2500		G1/1800
BVH	(80°-90°)	421.8	6.3			G3/500
UL	(90°-100°)	574.6	8.6		U4/1000	
UH	(100°-180°)	623.5	9.3		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6
2.5°	319.3	319.3	318.4	318.4	318.4	318.4	318.4	319.3	318.4	319.3	319.3
5°	323.4	324.3	323.4	323.4	324.3	323.4	323.4	324.3	323.4	323.4	323.4
7.5°	333.5	333.5	332.7	332.7	332.7	331.8	331.8	332.7	331.8	331.8	331.8
10°	346.9	346.9	346.0	346.0	345.3	344.4	344.4	344.4	345.3	345.3	345.3
12.5°	364.6	365.4	363.8	362.9	362.0	361.3	361.3	361.3	361.3	362.0	361.3
15°	391.5	391.5	389.9	386.5	383.9	383.0	381.4	383.0	384.7	385.6	387.3
17.5°	424.3	422.6	420.9	417.5	412.5	407.4	409.9	412.5	414.9	415.8	415.8
20°	457.9	457.9	455.4	450.3	446.1	441.8	442.8	444.4	446.1	447.7	446.9
22.5°	492.4	494.0	490.7	487.2	483.8	483.1	478.8	478.8	479.6	481.4	481.4
25°	533.5	531.7	529.2	525.9	525.1	525.1	519.2	515.8	516.6	517.6	517.6
27.5°	575.5	573.7	570.5	567.1	567.9	566.2	562.0	556.1	553.6	556.1	554.4
30°	617.5	616.6	613.3	610.8	612.5	610.8	605.6	596.5	594.8	595.7	596.5
32.5°	662.1	662.8	658.6	657.7	658.6	654.4	650.3	643.5	637.6	640.1	640.1
35°	711.5	711.5	705.7	706.4	704.0	699.8	694.7	689.7	683.8	686.3	684.7
37.5°	761.9	761.1	756.9	756.2	751.1	742.7	740.2	737.6	731.0	732.6	733.3
40°	815.8	813.2	807.3	806.5	796.3	787.2	785.5	785.5	777.9	782.2	783.0
42.5°	867.9	866.1	861.0	857.0	841.8	830.8	828.3	834.3	829.1	831.7	831.7
45°	920.0	915.7	914.0	906.5	886.3	872.1	872.9	880.3	881.2	881.2	879.6
47.5°	969.5	968.6	965.3	950.9	928.3	912.4	914.0	925.9	929.9	929.1	929.9
50°	1018.1	1015.7	1014.8	996.4	966.0	947.6	951.8	966.9	976.2	973.7	974.5
52.5°	1064.4	1060.2	1058.6	1036.6	1001.4	980.4	984.6	1006.5	1017.3	1016.5	1016.5
55°	1100.6	1098.8	1098.0	1071.0	1030.7	1008.1	1013.9	1038.4	1055.1	1051.7	1050.9
57.5°	1130.7	1129.1	1129.9	1098.8	1054.3	1028.3	1035.8	1066.1	1085.4	1080.3	1080.3
60°	1152.6	1150.9	1151.7	1119.0	1071.0	1042.6	1051.7	1083.7	1106.4	1100.6	1099.6
62.5°	1162.6	1161.9	1163.6	1129.1	1078.7	1049.3	1059.3	1093.7	1118.2	1110.7	1108.9
65°	1161.0	1161.9	1164.4	1129.9	1077.8	1047.7	1058.6	1093.7	1119.0	1110.7	1108.1
67.5°	1147.6	1150.1	1153.5	1119.8	1067.7	1038.4	1048.4	1083.7	1108.9	1099.6	1095.6
70°	1122.3	1124.9	1130.7	1098.8	1049.3	1019.8	1029.1	1063.6	1086.2	1075.4	1070.3
72.5°	1082.8	1088.7	1095.6	1067.7	1020.7	992.9	1002.1	1034.2	1055.1	1040.9	1034.9
75°	1033.3	1041.8	1050.9	1027.4	983.7	958.5	967.7	996.4	1010.7	997.2	986.2
77.5°	977.8	986.2	997.2	977.8	939.2	917.3	923.3	946.9	959.4	942.6	934.1
80°	910.6	920.0	935.0	922.4	891.4	869.5	876.2	893.0	898.9	881.2	870.4
82.5°	844.2	852.8	867.0	862.0	836.0	818.3	821.6	834.3	836.7	815.8	806.5
85°	772.9	780.4	799.0	798.1	778.8	764.5	767.1	774.6	768.7	746.0	735.9
87.5°	701.4	705.7	726.6	730.1	719.9	709.9	709.0	709.0	700.7	678.0	670.3
90°	631.8	636.0	656.1	667.0	661.2	652.8	651.1	647.7	630.9	609.9	604.9
92.5°	564.6	566.2	588.8	604.0	602.4	596.5	594.0	587.2	567.9	543.6	540.2
95°	501.6	503.2	525.1	541.9	546.1	544.5	539.3	530.1	504.8	480.6	479.6
97.5°	443.6	442.8	463.7	484.7	493.1	493.1	485.5	473.0	448.7	424.3	423.5
100°	390.7	389.0	408.3	433.5	442.8	444.4	437.7	420.9	393.2	373.9	374.8
102.5°	342.8	341.0	357.9	382.3	395.8	399.0	391.5	371.3	345.3	327.6	328.5
105°	300.8	299.0	313.4	336.9	352.0	355.4	346.9	327.6	299.0	286.5	288.1
107.5°	261.2	260.4	270.5	294.0	310.9	315.8	307.5	286.5	259.6	250.4	251.2
110°	230.1	229.3	234.4	256.2	274.7	279.7	269.8	247.8	225.1	219.2	220.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	202.5	200.0	203.2	222.6	239.4	245.2	235.3	212.5	194.9	192.3	193.2
115°	176.3	176.3	175.6	190.7	208.3	213.3	203.2	183.2	168.8	168.1	168.1
117.5°	155.3	153.7	152.9	162.1	178.1	184.1	174.7	156.2	147.1	147.9	148.7
120°	135.3	135.3	132.7	136.9	151.3	155.3	147.9	133.6	127.6	129.4	130.3
122.5°	118.4	117.6	115.2	115.9	126.0	131.1	123.4	112.6	110.9	114.3	114.3
125°	102.4	101.7	99.2	97.5	102.4	106.7	101.7	95.0	95.8	99.2	100.0
127.5°	88.3	87.3	84.0	80.7	83.2	85.7	82.4	79.1	83.2	85.7	86.5
130°	75.5	74.7	71.4	66.4	65.5	67.3	64.7	65.5	70.5	74.7	74.7
132.5°	63.9	63.9	59.6	53.8	50.5	50.5	50.5	53.8	59.6	63.1	63.9
135°	52.9	52.9	49.5	42.8	37.0	36.1	37.0	42.8	49.5	52.1	52.9
137.5°	43.7	42.8	39.4	33.5	26.1	24.3	26.1	32.8	39.4	42.8	42.8
140°	34.5	33.5	30.3	25.2	18.4	15.1	18.4	24.3	30.3	33.5	33.5
142.5°	25.2	25.2	21.9	17.6	11.8	9.3	11.8	17.6	22.6	24.3	25.2
145°	17.6	17.6	15.1	10.9	6.6	5.0	6.6	11.8	15.1	17.6	17.6
147.5°	11.8	11.8	10.2	6.6	4.2	2.5	4.2	7.5	10.2	11.8	11.8
150°	6.6	6.6	5.8	4.2	1.6	0.9	1.6	4.2	5.8	6.6	6.6
152.5°	3.4	3.4	2.5	1.6	0.9	0.9	0.9	1.6	3.4	3.4	4.2
155°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6	1.6
157.5°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)