

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: P240096

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240096
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-AF24-70-D-U-5WQ-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6285.7 lumens
Efficiency: N/A
Efficacy: 84.9 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): 74
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



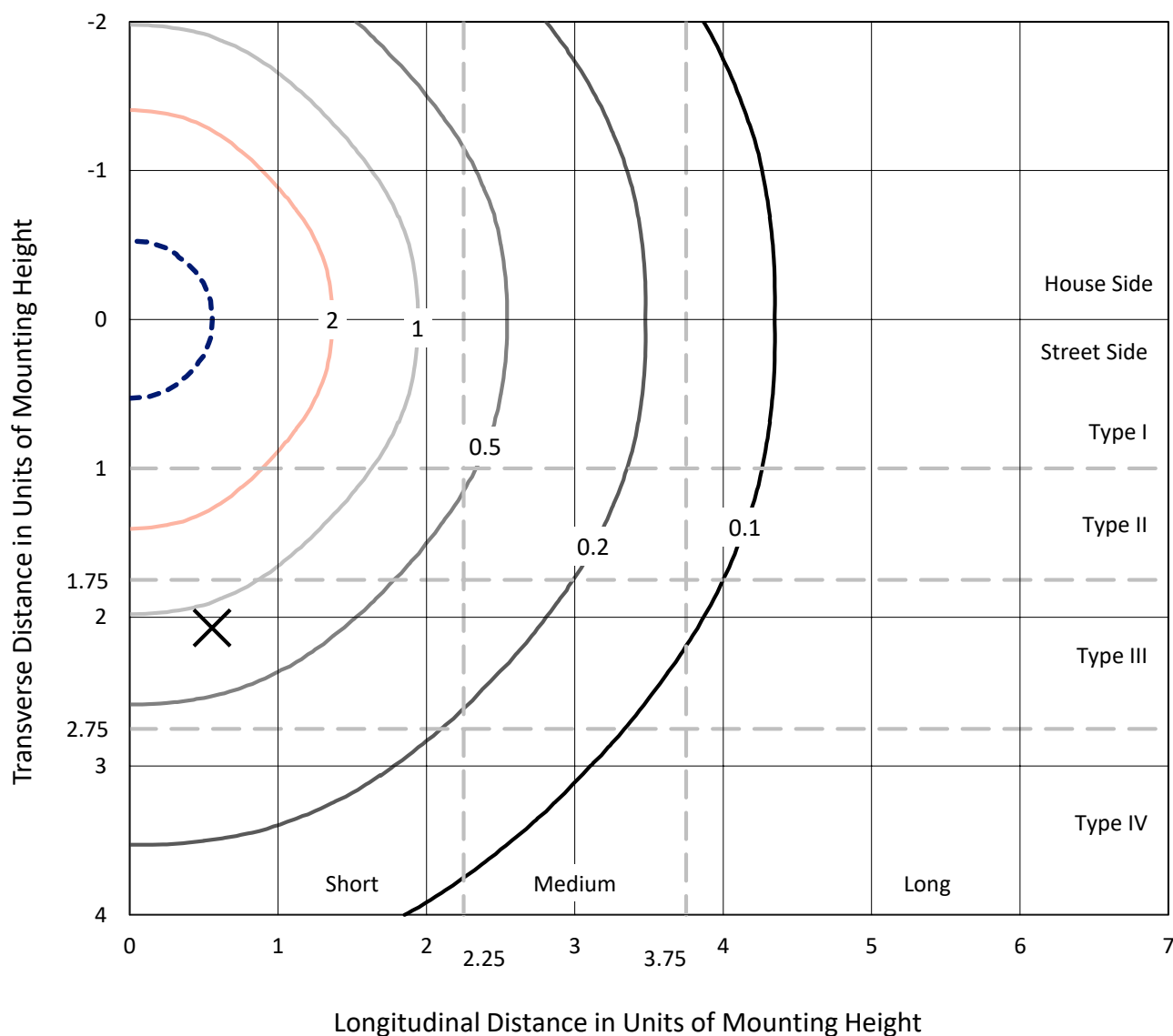
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

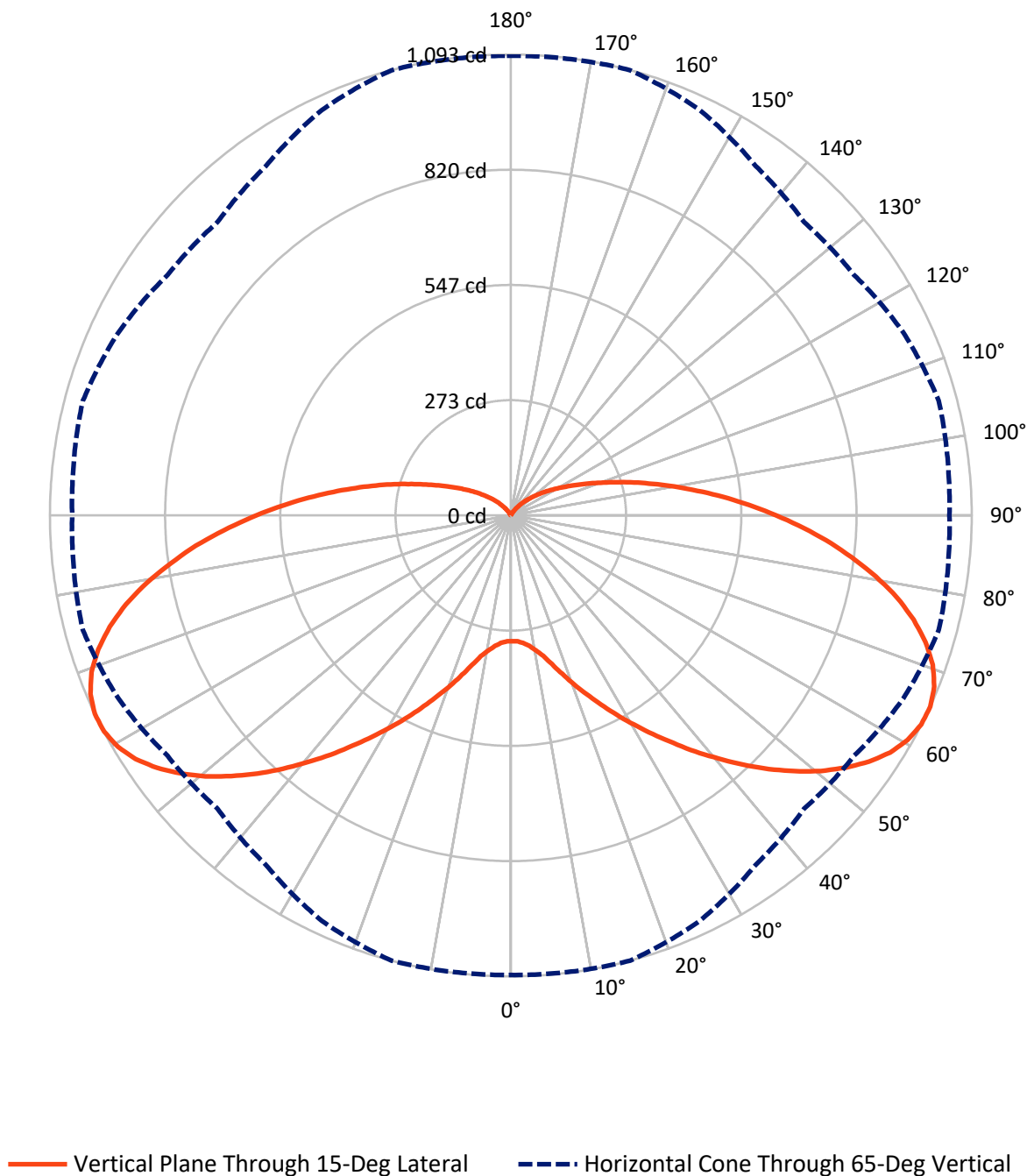


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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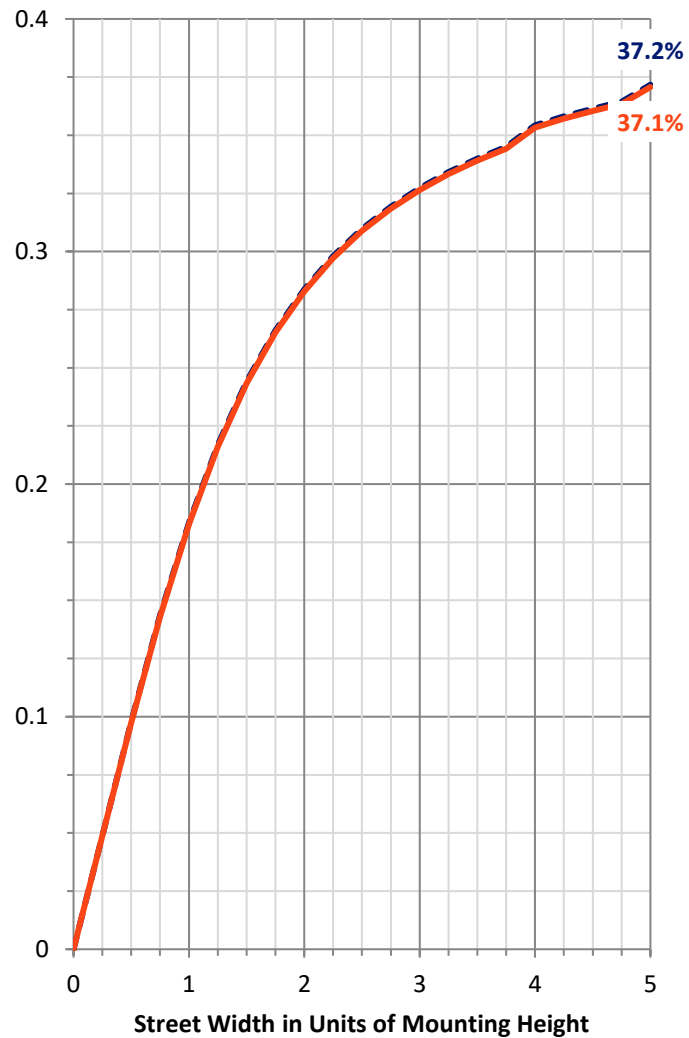
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.5	585.3	3142.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2557.5	585.3	3142.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	5115.0	1170.7	6285.7
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	0.5
10°-20°	105.2	1.7
20°-30°	229.9	3.7
30°-40°	414.2	6.6
40°-50°	647.9	10.3
50°-60°	882.5	14.0
60°-70°	1024.2	16.3
70°-80°	989.5	15.7
80°-90°	791.9	12.6
90°-100°	539.4	8.6
100°-110°	325.5	5.2
110°-120°	177.6	2.8
120°-130°	86.0	1.4
130°-140°	33.5	0.5
140°-150°	8.0	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5115.0	81.4
0°-180°	6285.7	100.0

Coefficient of Utilization



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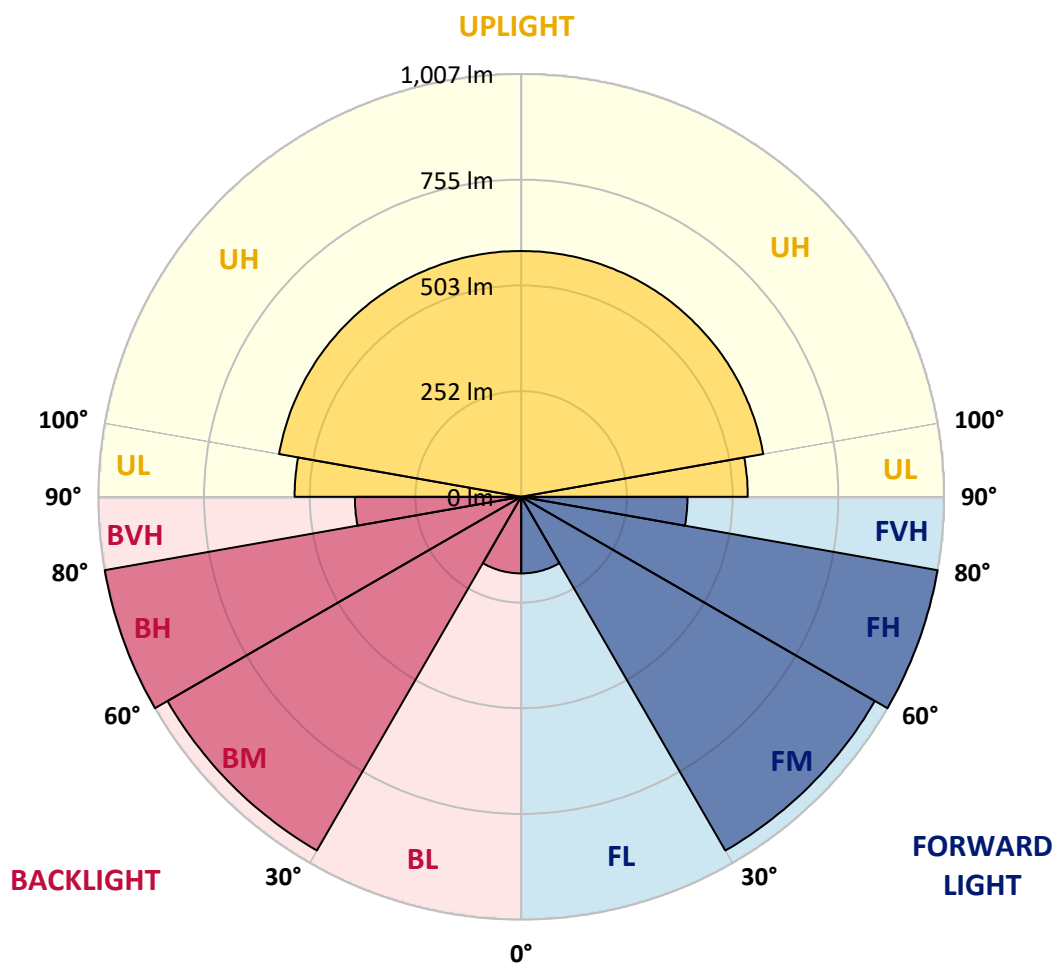
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.4	2.9			
FM	(30°-60°)	972.4	15.5			
FH	(60°-80°)	1006.8	16.0			G1/1800
FVH	(80°-90°)	396.0	6.3			G3/500
BL	(0°-30°)	182.4	2.9	B1/500		
BM	(30°-60°)	972.4	15.5	B1/1000		
BH	(60°-80°)	1006.8	16.0	B3/2500		G1/1800
BVH	(80°-90°)	396.0	6.3			G3/500
UL	(90°-100°)	539.4	8.6		U4/1000	
UH	(100°-180°)	585.3	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°	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1
2.5°	299.7	299.7	299.0	299.0	299.0	299.0	299.0	299.7	299.0	299.7	299.7
5°	303.6	304.4	303.6	303.6	304.4	303.6	303.6	304.4	303.6	303.6	303.6
7.5°	313.1	313.1	312.3	312.3	312.3	311.5	311.5	312.3	311.5	311.5	311.5
10°	325.7	325.7	324.9	324.9	324.2	323.3	323.3	323.3	324.2	324.2	324.2
12.5°	342.3	343.1	341.4	340.7	339.9	339.1	339.1	339.1	339.1	339.9	339.1
15°	367.5	367.5	365.9	362.7	360.4	359.6	358.1	359.6	361.2	361.9	363.7
17.5°	398.2	396.7	395.1	391.9	387.3	382.5	384.8	387.3	389.6	390.4	390.4
20°	429.8	429.8	427.4	422.8	418.8	414.8	415.6	417.2	418.8	420.3	419.5
22.5°	462.1	463.7	460.5	457.5	454.3	453.4	449.5	449.5	450.3	451.9	451.9
25°	500.9	499.2	496.8	493.8	492.9	492.9	487.4	484.2	485.0	485.7	485.7
27.5°	540.2	538.6	535.5	532.3	533.1	531.5	527.6	522.0	519.7	522.0	520.5
30°	579.6	578.8	575.7	573.4	574.9	573.4	568.5	560.0	558.4	559.2	560.0
32.5°	621.4	622.2	618.3	617.6	618.3	614.4	610.4	604.1	598.6	600.9	600.9
35°	668.0	668.0	662.4	663.3	660.9	656.9	652.2	647.5	642.0	644.3	642.8
37.5°	715.3	714.5	710.6	709.7	705.0	697.2	694.8	692.4	686.1	687.7	688.5
40°	765.8	763.4	757.9	757.0	747.7	738.9	737.4	737.4	730.3	734.2	735.0
42.5°	814.6	813.1	808.4	804.4	790.3	780.0	777.6	783.2	778.4	780.7	780.7
45°	863.5	859.7	858.0	850.9	832.0	818.6	819.5	826.5	827.3	827.3	825.7
47.5°	910.1	909.4	906.2	892.7	871.5	856.5	858.0	869.0	873.1	872.2	873.1
50°	955.8	953.5	952.7	935.4	907.0	889.6	893.5	907.7	916.4	914.1	914.8
52.5°	999.1	995.3	993.7	973.2	940.0	920.4	924.4	944.8	955.0	954.3	954.3
55°	1033.1	1031.5	1030.8	1005.5	967.7	946.4	951.8	974.8	990.6	987.3	986.6
57.5°	1061.6	1060.0	1060.7	1031.5	989.8	965.3	972.4	1000.9	1019.0	1014.3	1014.3
60°	1082.0	1080.5	1081.2	1050.5	1005.5	978.8	987.3	1017.3	1038.6	1033.1	1032.4
62.5°	1091.5	1090.7	1092.3	1060.0	1012.7	985.1	994.5	1026.8	1049.7	1042.6	1041.0
65°	1090.0	1090.7	1093.0	1060.7	1011.8	983.5	993.7	1026.8	1050.5	1042.6	1040.2
67.5°	1077.3	1079.7	1082.9	1051.3	1002.4	974.8	984.2	1017.3	1041.0	1032.4	1028.4
70°	1053.7	1056.0	1061.6	1031.5	985.1	957.4	966.1	998.4	1019.7	1009.4	1004.7
72.5°	1016.5	1022.1	1028.4	1002.4	958.2	932.2	940.8	970.9	990.6	977.1	971.7
75°	970.0	978.0	986.6	964.5	923.6	899.9	908.5	935.4	948.7	936.2	925.9
77.5°	918.0	925.9	936.2	918.0	881.7	861.2	866.8	888.9	900.7	884.9	877.1
80°	855.0	863.5	877.8	866.0	836.8	816.2	822.6	838.3	843.8	827.3	817.0
82.5°	792.5	800.5	813.9	809.2	784.7	768.2	771.3	783.2	785.5	765.8	757.0
85°	725.6	732.7	750.1	749.2	731.1	717.8	720.0	727.1	721.6	700.4	690.8
87.5°	658.5	662.4	682.3	685.4	675.9	666.4	665.6	665.6	657.7	636.4	629.4
90°	593.1	597.0	615.9	626.2	620.7	612.8	611.2	608.0	592.3	572.5	567.8
92.5°	530.0	531.5	552.9	567.0	565.4	560.0	557.6	551.3	533.1	510.2	507.1
95°	470.8	472.4	492.9	508.7	512.7	511.0	506.3	497.6	473.9	451.1	450.3
97.5°	416.4	415.6	435.3	455.1	462.9	462.9	455.8	444.0	421.2	398.2	397.4
100°	366.7	365.2	383.3	407.0	415.6	417.2	411.0	395.1	369.1	350.9	351.7
102.5°	321.8	320.2	336.0	358.8	371.5	374.6	367.5	348.5	324.2	307.6	308.3
105°	282.3	280.8	294.1	316.2	330.4	333.6	325.7	307.6	280.8	268.9	270.5
107.5°	245.3	244.5	253.9	276.0	291.8	296.5	288.7	268.9	243.6	235.0	235.8
110°	216.2	215.3	220.0	240.6	257.9	262.7	253.2	232.6	211.3	205.9	206.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	190.1	187.7	190.8	209.0	224.7	230.3	220.8	199.5	183.0	180.6	181.4
115°	165.6	165.6	164.9	179.0	195.6	200.3	190.8	172.0	158.5	157.8	157.8
117.5°	145.9	144.3	143.5	152.2	167.1	172.7	164.0	146.7	138.0	138.8	139.7
120°	127.0	127.0	124.5	128.6	141.9	145.9	138.8	125.4	119.8	121.5	122.3
122.5°	111.2	110.5	108.0	108.8	118.3	123.0	116.0	105.7	104.2	107.3	107.3
125°	96.2	95.4	93.1	91.4	96.2	100.2	95.4	89.1	89.9	93.1	93.9
127.5°	82.8	82.1	78.8	75.7	78.1	80.5	77.2	74.2	78.1	80.5	81.2
130°	71.0	70.2	67.0	62.3	61.5	63.1	60.7	61.5	66.2	70.2	70.2
132.5°	60.0	60.0	55.9	50.5	47.3	47.3	47.3	50.5	55.9	59.1	60.0
135°	49.7	49.7	46.6	40.2	34.8	33.9	34.8	40.2	46.6	48.9	49.7
137.5°	41.0	40.2	37.0	31.5	24.5	22.8	24.5	30.8	37.0	40.2	40.2
140°	32.3	31.5	28.4	23.7	17.4	14.2	17.4	22.8	28.4	31.5	31.5
142.5°	23.7	23.7	20.5	16.6	11.0	8.6	11.0	16.6	21.3	22.8	23.7
145°	16.6	16.6	14.2	10.3	6.3	4.7	6.3	11.0	14.2	16.6	16.6
147.5°	11.0	11.0	9.5	6.3	4.0	2.4	4.0	7.1	9.5	11.0	11.0
150°	6.3	6.3	5.6	4.0	1.5	0.8	1.5	4.0	5.6	6.3	6.3
152.5°	3.2	3.2	2.4	1.5	0.8	0.8	0.8	1.5	3.2	3.2	4.0
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5	1.5
157.5°	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)