

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: P266429

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266429
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 5646.4 lumens
Efficiency: N/A
Efficacy: 76.3 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: B2 - 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

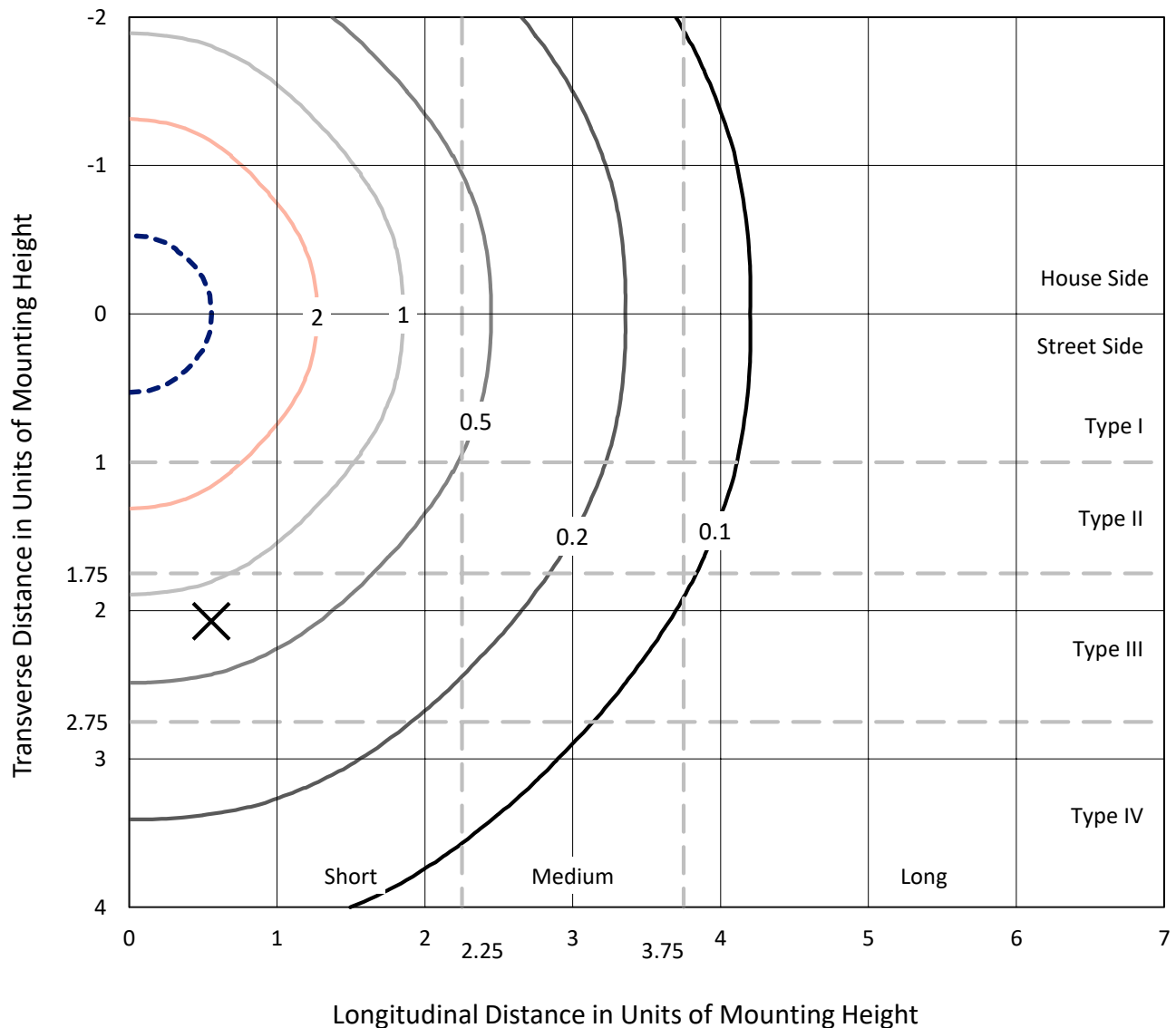


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

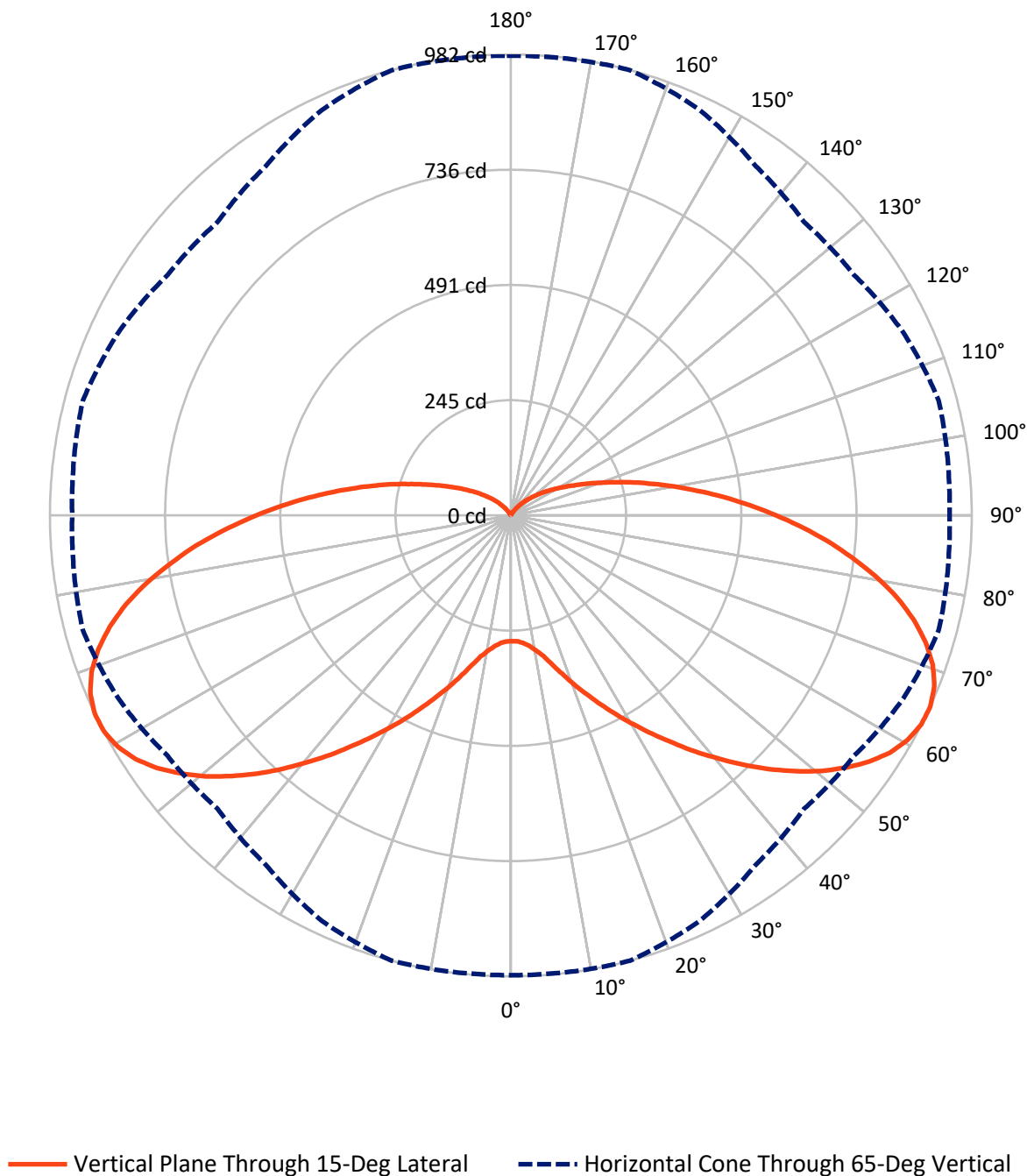


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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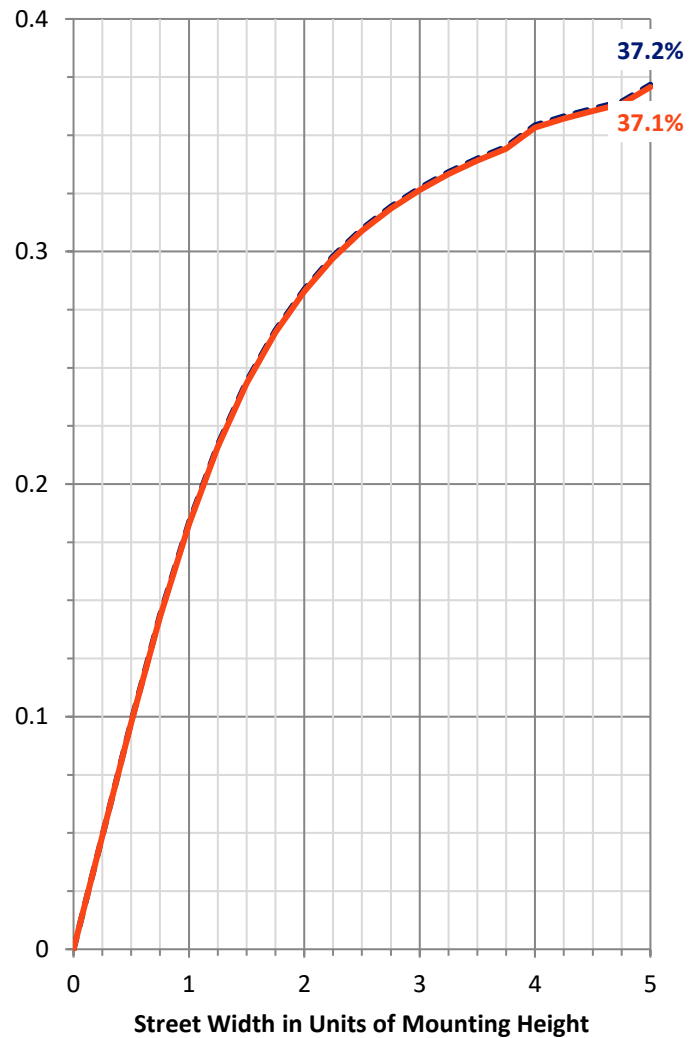
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.4	525.8	2823.2
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2297.4	525.8	2823.2
	% Fixture	40.7	9.3	50.0
Total	Lumens	4594.8	1051.6	5646.4
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	0.5
10°-20°	94.5	1.7
20°-30°	206.5	3.7
30°-40°	372.1	6.6
40°-50°	582.0	10.3
50°-60°	792.8	14.0
60°-70°	920.0	16.3
70°-80°	888.8	15.7
80°-90°	711.4	12.6
90°-100°	484.6	8.6
100°-110°	292.4	5.2
110°-120°	159.5	2.8
120°-130°	77.3	1.4
130°-140°	30.1	0.5
140°-150°	7.2	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4594.8	81.4
0°-180°	5646.4	100.0

Coefficient of Utilization



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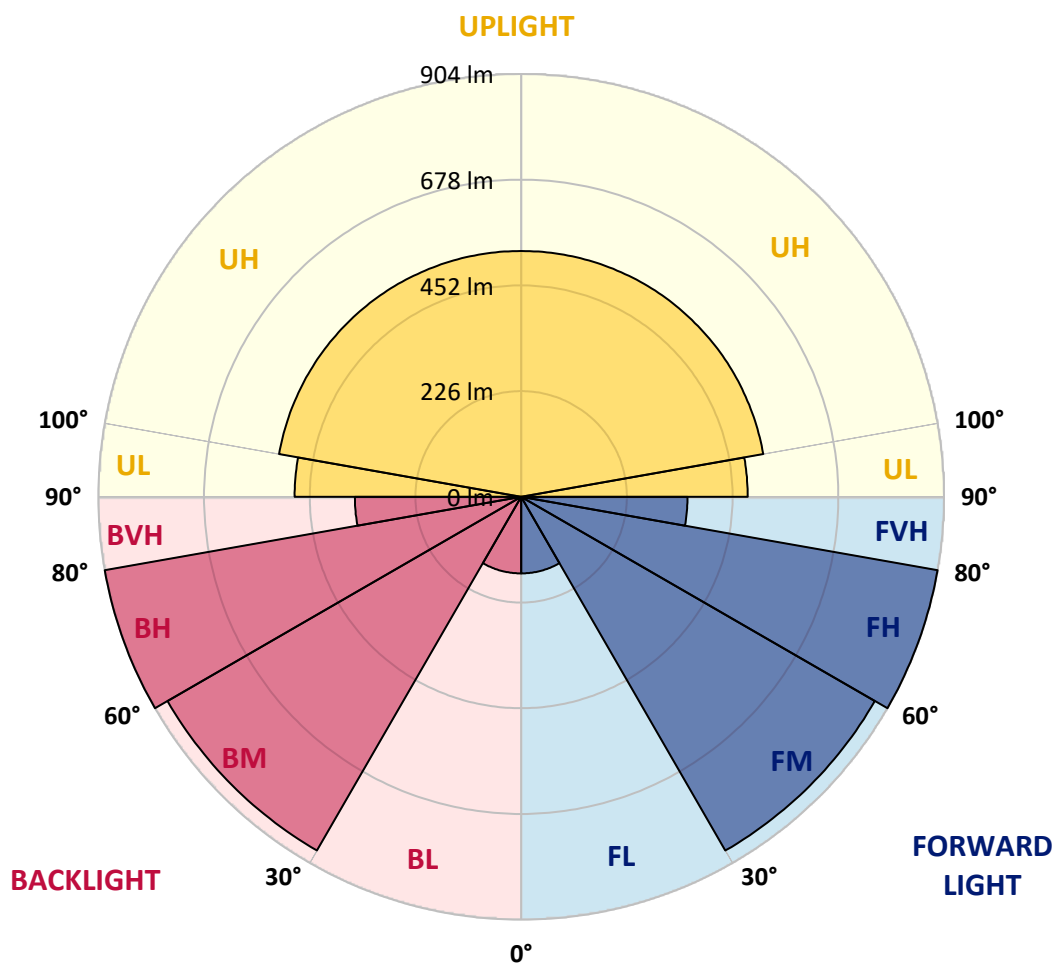
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.8	2.9			
FM	(30°-60°)	873.5	15.5			
FH	(60°-80°)	904.4	16.0			G1/1800
FVH	(80°-90°)	355.7	6.3			G3/500
BL	(0°-30°)	163.8	2.9	B1/500		
BM	(30°-60°)	873.5	15.5	B1/1000		
BH	(60°-80°)	904.4	16.0	B2/1000		G1/1800
BVH	(80°-90°)	355.7	6.3			G3/500
UL	(90°-100°)	484.6	8.6		U3/500	
UH	(100°-180°)	525.8	9.3		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8
2.5°	269.2	269.2	268.6	268.6	268.6	268.6	268.6	269.2	268.6	269.2	269.2
5°	272.7	273.4	272.7	272.7	273.4	272.7	272.7	273.4	272.7	272.7	272.7
7.5°	281.3	281.3	280.5	280.5	280.5	279.8	279.8	280.5	279.8	279.8	279.8
10°	292.6	292.6	291.9	291.9	291.2	290.4	290.4	290.4	291.2	291.2	291.2
12.5°	307.5	308.2	306.7	306.1	305.3	304.6	304.6	304.6	304.6	305.3	304.6
15°	330.1	330.1	328.7	325.8	323.7	323.0	321.7	323.0	324.5	325.1	326.7
17.5°	357.7	356.4	354.9	352.0	347.9	343.6	345.7	347.9	350.0	350.7	350.7
20°	386.1	386.1	383.9	379.8	376.2	372.6	373.3	374.8	376.2	377.6	376.8
22.5°	415.1	416.5	413.7	411.0	408.1	407.3	403.8	403.8	404.5	405.9	405.9
25°	450.0	448.4	446.3	443.6	442.8	442.8	437.8	435.0	435.7	436.3	436.3
27.5°	485.3	483.8	481.0	478.2	478.9	477.4	473.9	468.9	466.8	468.9	467.6
30°	520.7	519.9	517.2	515.1	516.4	515.1	510.7	503.1	501.6	502.3	503.1
32.5°	558.2	558.9	555.4	554.8	555.4	551.9	548.3	542.7	537.7	539.8	539.8
35°	600.1	600.1	595.0	595.8	593.7	590.1	585.9	581.7	576.7	578.8	577.4
37.5°	642.6	641.8	638.3	637.5	633.3	626.3	624.1	622.0	616.3	617.8	618.5
40°	687.9	685.8	680.8	680.0	671.7	663.8	662.4	662.4	656.0	659.5	660.3
42.5°	731.8	730.4	726.2	722.6	709.9	700.7	698.5	703.6	699.2	701.3	701.3
45°	775.7	772.3	770.7	764.4	747.4	735.4	736.2	742.4	743.2	743.2	741.7
47.5°	817.5	816.9	814.0	801.9	782.9	769.4	770.7	780.6	784.3	783.5	784.3
50°	858.6	856.5	855.8	840.3	814.8	799.1	802.6	815.4	823.2	821.1	821.8
52.5°	897.5	894.1	892.6	874.2	844.4	826.8	830.4	848.7	857.9	857.3	857.3
55°	928.0	926.6	926.0	903.2	869.3	850.2	855.0	875.7	889.9	886.9	886.3
57.5°	953.6	952.2	952.8	926.6	889.1	867.1	873.5	899.1	915.4	911.2	911.2
60°	972.0	970.6	971.2	943.7	903.2	879.3	886.9	913.8	933.0	928.0	927.4
62.5°	980.5	979.8	981.2	952.2	909.7	884.9	893.4	922.4	943.0	936.6	935.1
65°	979.2	979.8	981.8	952.8	908.9	883.5	892.6	922.4	943.7	936.6	934.4
67.5°	967.7	969.9	972.8	944.4	900.5	875.7	884.1	913.8	935.1	927.4	923.8
70°	946.5	948.6	953.6	926.6	884.9	860.0	867.9	896.9	916.0	906.7	902.5
72.5°	913.1	918.2	923.8	900.5	860.8	837.4	845.1	872.2	889.9	877.7	872.9
75°	871.4	878.5	886.3	866.4	829.7	808.4	816.1	840.3	852.2	841.0	831.7
77.5°	824.6	831.7	841.0	824.6	792.0	773.6	778.7	798.5	809.1	794.9	787.9
80°	768.1	775.7	788.5	777.9	751.7	733.2	738.9	753.0	758.0	743.2	733.9
82.5°	711.9	719.1	731.1	726.9	704.9	690.1	692.9	703.6	705.6	687.9	680.0
85°	651.8	658.2	673.8	673.0	656.8	644.8	646.8	653.2	648.2	629.2	620.5
87.5°	591.5	595.0	612.9	615.7	607.2	598.6	597.9	597.9	590.8	571.7	565.4
90°	532.8	536.3	553.3	562.5	557.6	550.5	549.0	546.2	532.1	514.3	510.1
92.5°	476.1	477.4	496.7	509.3	507.9	503.1	500.9	495.2	478.9	458.3	455.5
95°	422.9	424.4	442.8	457.0	460.6	459.0	454.8	447.0	425.7	405.2	404.5
97.5°	374.1	373.3	391.0	408.8	415.8	415.8	409.4	398.8	378.4	357.7	357.0
100°	329.4	328.1	344.3	365.6	373.3	374.8	369.2	354.9	331.6	315.2	315.9
102.5°	289.1	287.6	301.8	322.3	333.7	336.5	330.1	313.1	291.2	276.3	276.9
105°	253.6	252.2	264.2	284.0	296.8	299.7	292.6	276.3	252.2	241.6	243.0
107.5°	220.4	219.6	228.1	247.9	262.1	266.3	259.3	241.6	218.8	211.1	211.8
110°	194.2	193.4	197.6	216.1	231.7	236.0	227.5	208.9	189.8	185.0	185.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	170.8	168.6	171.4	187.7	201.8	206.9	198.3	179.2	164.4	162.2	163.0
115°	148.8	148.8	148.1	160.8	175.7	179.9	171.4	154.5	142.4	141.8	141.8
117.5°	131.1	129.6	128.9	136.7	150.1	155.1	147.3	131.8	124.0	124.7	125.5
120°	114.1	114.1	111.8	115.5	127.5	131.1	124.7	112.6	107.6	109.1	109.9
122.5°	99.9	99.3	97.0	97.7	106.3	110.5	104.2	95.0	93.6	96.4	96.4
125°	86.4	85.7	83.6	82.1	86.4	90.0	85.7	80.0	80.8	83.6	84.4
127.5°	74.4	73.8	70.8	68.0	70.2	72.3	69.3	66.7	70.2	72.3	72.9
130°	63.8	63.1	60.2	56.0	55.2	56.7	54.5	55.2	59.5	63.1	63.1
132.5°	53.9	53.9	50.2	45.4	42.5	42.5	42.5	45.4	50.2	53.1	53.9
135°	44.6	44.6	41.9	36.1	31.3	30.5	31.3	36.1	41.9	43.9	44.6
137.5°	36.8	36.1	33.2	28.3	22.0	20.5	22.0	27.7	33.2	36.1	36.1
140°	29.0	28.3	25.5	21.3	15.6	12.8	15.6	20.5	25.5	28.3	28.3
142.5°	21.3	21.3	18.4	14.9	9.9	7.7	9.9	14.9	19.1	20.5	21.3
145°	14.9	14.9	12.8	9.3	5.7	4.2	5.7	9.9	12.8	14.9	14.9
147.5°	9.9	9.9	8.5	5.7	3.6	2.2	3.6	6.4	8.5	9.9	9.9
150°	5.7	5.7	5.0	3.6	1.3	0.7	1.3	3.6	5.0	5.7	5.7
152.5°	2.9	2.9	2.2	1.3	0.7	0.7	0.7	1.3	2.9	2.9	3.6
155°	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.7	1.3	1.3	1.3
157.5°	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)