

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: P240104

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240104
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-AF24-60-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 5941.3 lumens
Efficiency: N/A
Efficacy: 92.8 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: B2 - U4 - G3

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



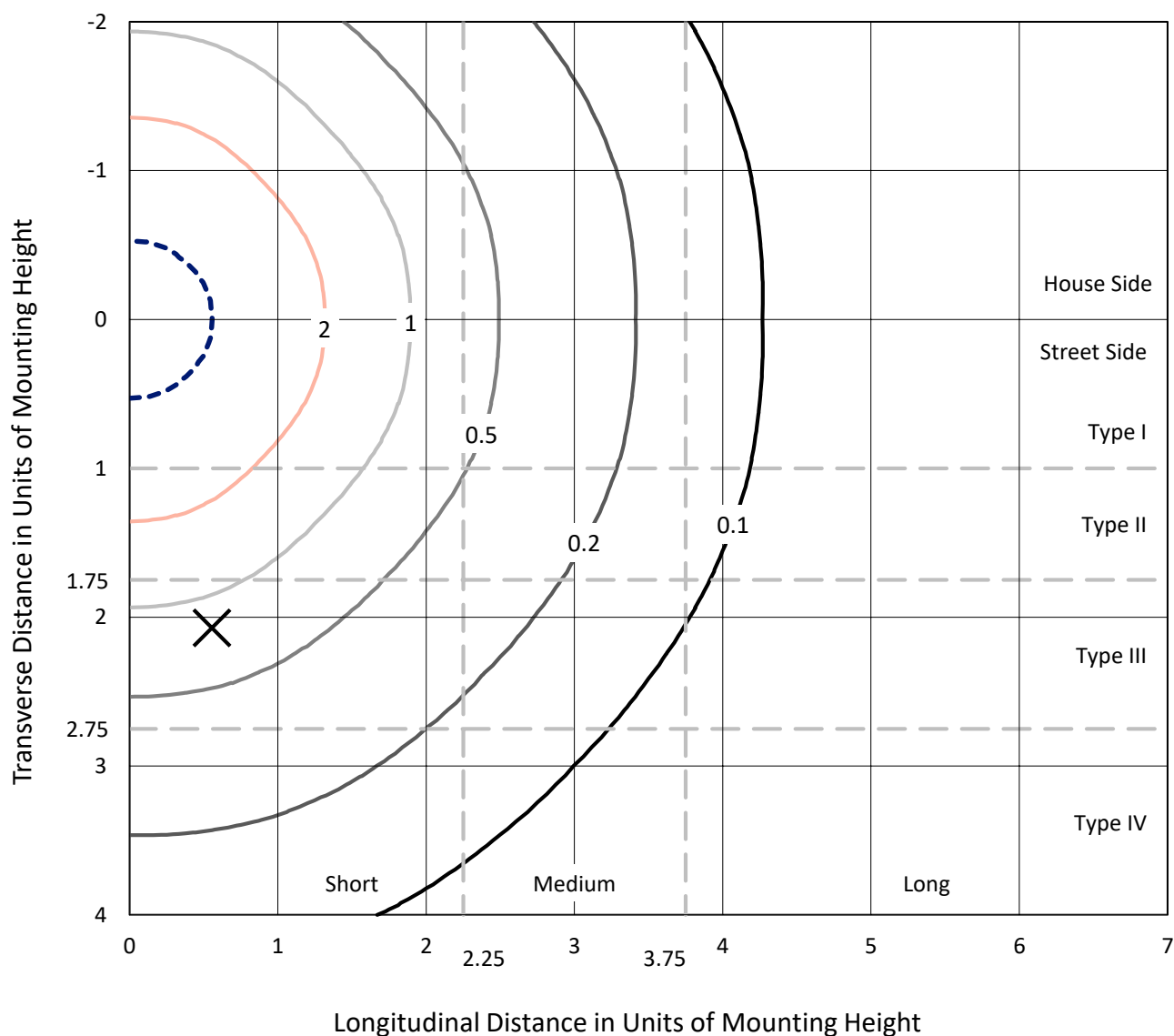
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

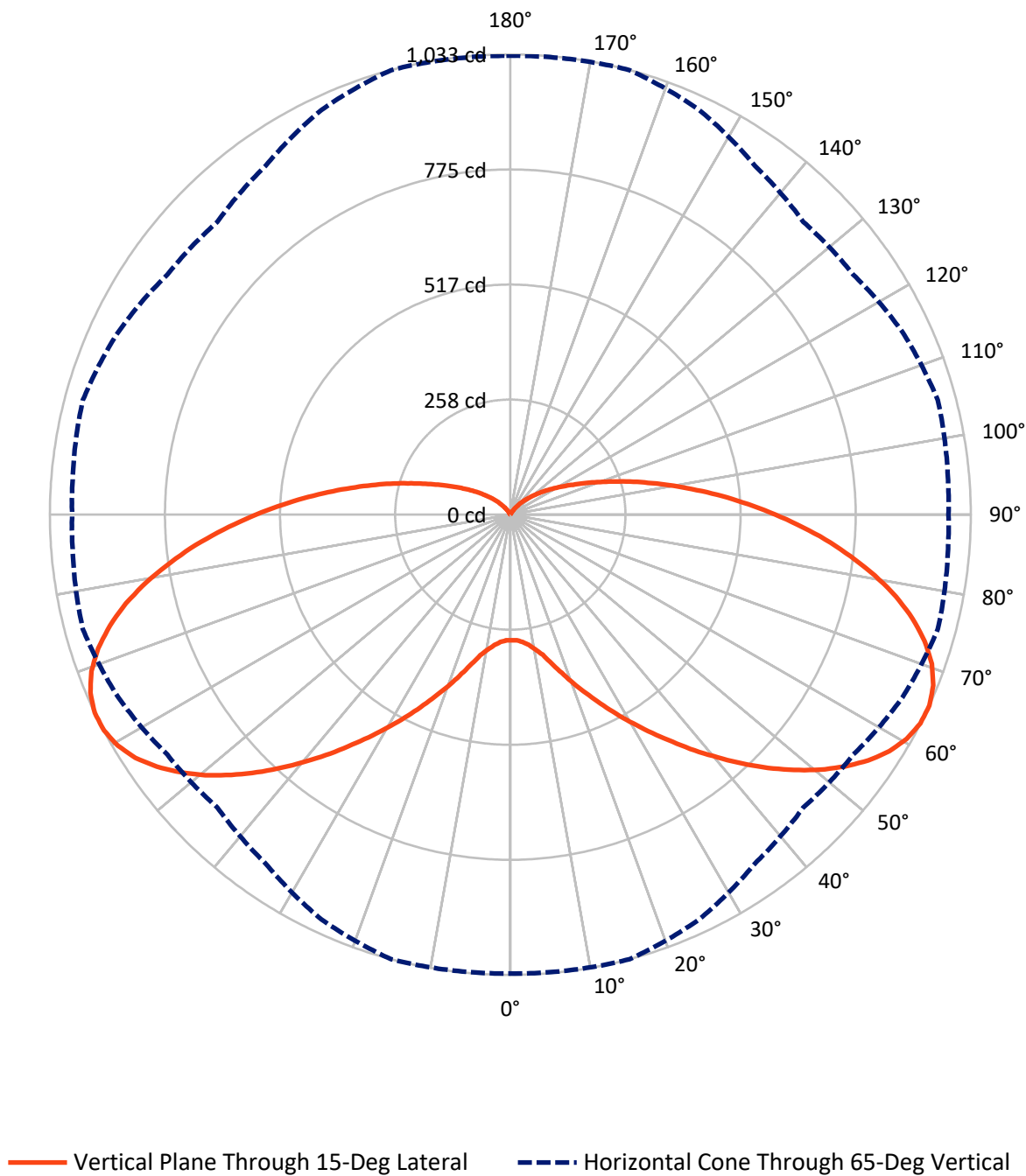


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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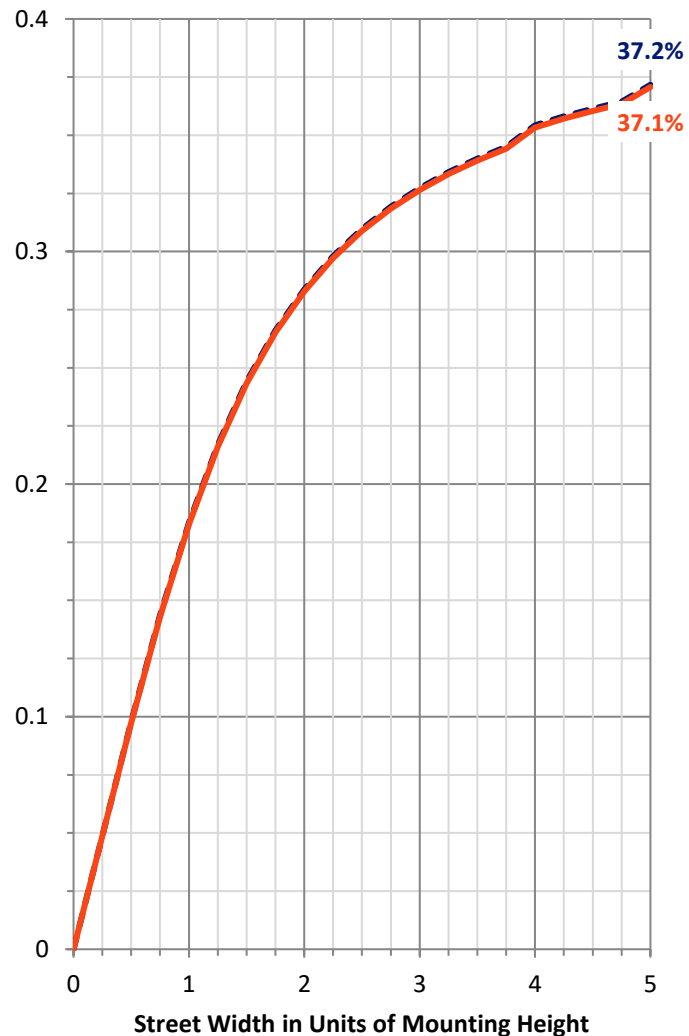
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.4	553.3	2970.7
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2417.4	553.3	2970.7
	% Fixture	40.7	9.3	50.0
Total	Lumens	4834.8	1106.5	5941.3
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.5
10°-20°	99.4	1.7
20°-30°	217.3	3.7
30°-40°	391.5	6.6
40°-50°	612.4	10.3
50°-60°	834.2	14.0
60°-70°	968.1	16.3
70°-80°	935.3	15.7
80°-90°	748.5	12.6
90°-100°	509.9	8.6
100°-110°	307.6	5.2
110°-120°	167.8	2.8
120°-130°	81.3	1.4
130°-140°	31.7	0.5
140°-150°	7.5	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4834.8	81.4
0°-180°	5941.3	100.0

Coefficient of Utilization



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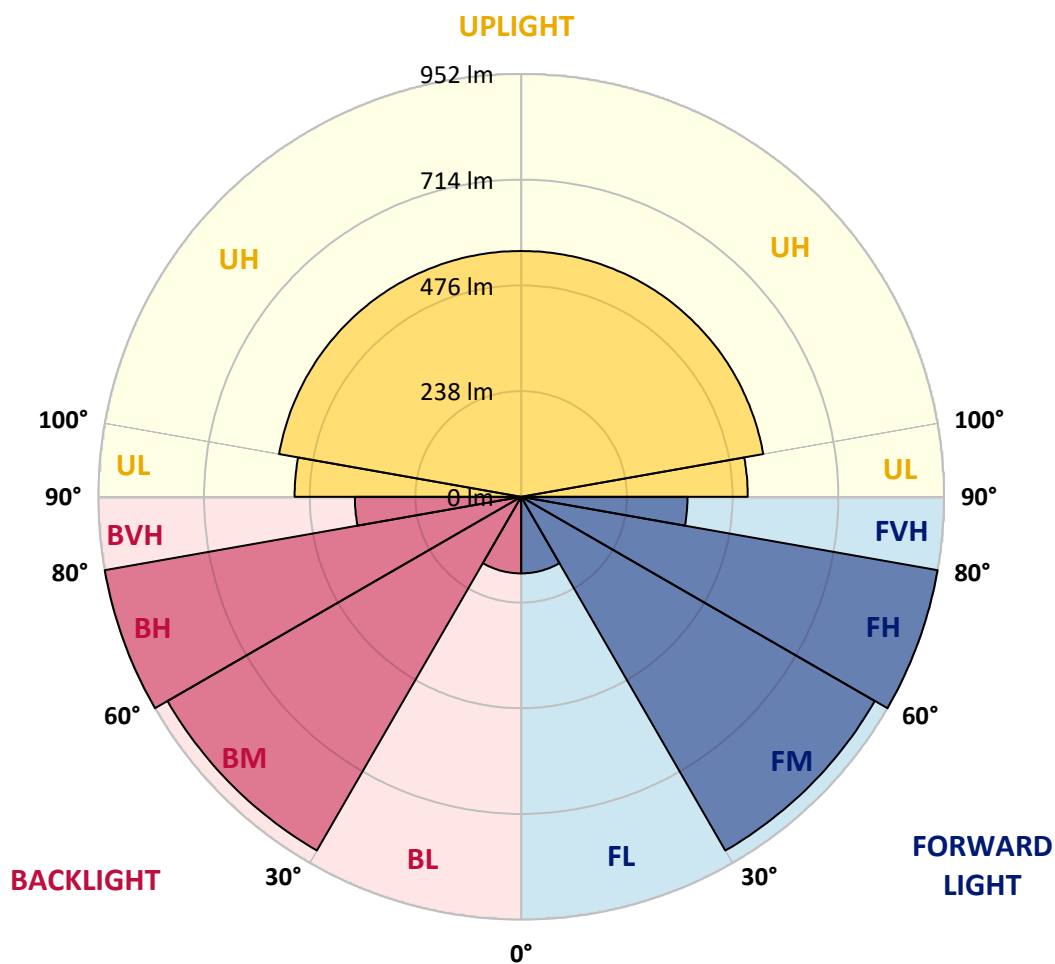
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.4	2.9			
FM	(30°-60°)	919.1	15.5			
FH	(60°-80°)	951.7	16.0			G1/1800
FVH	(80°-90°)	374.3	6.3			G3/500
BL	(0°-30°)	172.4	2.9	B1/500		
BM	(30°-60°)	919.1	15.5	B1/1000		
BH	(60°-80°)	951.7	16.0	B2/1000		G1/1800
BVH	(80°-90°)	374.3	6.3			G3/500
UL	(90°-100°)	509.9	8.6		U4/1000	
UH	(100°-180°)	553.3	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°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8
2.5°	283.3	283.3	282.5	282.5	282.5	282.5	282.5	283.3	282.5	283.3	283.3
5°	287.0	287.8	287.0	287.0	287.8	287.0	287.0	287.8	287.0	287.0	287.0
7.5°	295.9	295.9	295.2	295.2	295.2	294.4	294.4	295.2	294.4	294.4	294.4
10°	307.9	307.9	307.1	307.1	306.4	305.7	305.7	305.7	306.4	306.4	306.4
12.5°	323.6	324.3	322.0	322.0	321.3	320.5	320.5	320.5	320.5	321.3	320.5
15°	347.4	347.4	342.9	342.9	340.6	339.9	338.4	339.9	341.5	342.2	343.6
17.5°	376.4	374.9	370.5	370.5	366.0	361.5	363.8	366.0	368.3	369.0	369.0
20°	406.3	406.3	399.6	399.6	395.9	392.1	392.8	394.3	395.9	397.3	396.6
22.5°	436.8	438.3	432.4	432.4	429.3	428.6	424.9	424.9	425.6	427.2	427.2
25°	473.3	471.9	466.7	466.7	466.0	466.0	460.6	457.7	458.5	459.2	459.2
27.5°	510.7	509.1	503.2	503.2	503.9	502.5	498.7	493.5	491.2	493.5	492.0
30°	547.9	547.2	542.0	542.0	543.4	542.0	537.5	529.3	527.7	528.6	529.3
32.5°	587.4	588.2	583.7	583.7	584.4	580.7	576.9	571.0	565.8	568.0	568.0
35°	631.4	631.4	627.0	627.0	624.7	620.9	616.5	612.0	606.8	609.1	607.5
37.5°	676.1	675.4	670.9	670.9	666.5	659.0	656.7	654.5	648.6	650.0	650.8
40°	723.8	721.6	715.7	715.7	706.7	698.5	697.0	697.0	690.3	694.0	694.8
42.5°	770.1	768.5	760.4	760.4	747.0	737.2	735.0	740.2	735.7	738.0	738.0
45°	816.2	812.5	804.3	804.3	786.4	773.8	774.5	781.2	781.9	781.9	780.5
47.5°	860.2	859.5	843.8	843.8	823.7	809.6	811.0	821.4	825.2	824.5	825.2
50°	903.5	901.2	884.1	884.1	857.2	840.9	844.5	858.1	866.2	864.0	864.7
52.5°	944.5	940.7	919.8	919.8	888.5	869.9	873.7	893.0	902.8	902.0	902.0
55°	976.5	975.1	950.4	950.4	914.6	894.6	899.8	921.4	936.3	933.3	932.5
57.5°	1003.4	1001.9	975.1	975.1	935.5	912.5	919.1	945.9	963.1	958.6	958.6
60°	1022.7	1021.2	993.0	993.0	950.4	925.1	933.3	961.6	981.7	976.5	975.8
62.5°	1031.6	1030.9	1001.9	1001.9	957.2	931.1	940.0	970.6	992.2	985.5	984.0
65°	1030.2	1030.9	1002.6	1002.6	956.4	929.6	939.3	970.6	993.0	985.5	983.3
67.5°	1018.2	1020.5	993.7	993.7	947.5	921.4	930.3	961.6	984.0	975.8	972.1
70°	995.9	998.2	975.1	975.1	931.1	905.0	913.2	943.8	963.8	954.2	949.7
72.5°	960.9	966.1	947.5	947.5	905.7	881.1	889.4	917.7	936.3	923.6	918.4
75°	916.9	924.3	872.9	872.9	850.6	858.8	884.1	896.8	884.9	884.9	875.1
77.5°	867.7	875.1	833.4	833.4	814.1	819.3	840.1	851.3	836.4	836.4	828.9
80°	808.0	816.2	790.9	790.9	771.5	777.5	792.4	797.6	781.9	781.9	772.3
82.5°	749.2	756.7	741.7	741.7	726.1	729.1	740.2	742.5	723.8	723.8	715.7
85°	685.8	692.5	691.0	691.0	678.3	680.6	687.3	682.1	662.0	662.0	653.1
87.5°	622.5	626.1	638.8	638.8	629.9	629.1	629.1	621.7	601.6	601.6	594.8
90°	560.6	564.3	586.7	586.7	579.2	577.8	574.7	559.9	541.2	541.2	536.7
92.5°	500.9	502.5	535.9	535.9	534.5	529.3	527.0	521.1	503.9	482.3	479.4
95°	445.0	446.5	480.8	480.8	484.6	483.0	478.5	470.4	448.1	426.4	425.6
97.5°	393.6	392.8	430.2	430.2	437.6	437.6	430.9	419.7	398.0	376.4	375.7
100°	346.7	345.1	384.6	384.6	392.8	394.3	388.4	373.5	348.8	331.7	332.5
102.5°	304.1	302.7	339.2	339.2	351.1	354.0	347.4	329.5	306.4	290.7	291.4
105°	266.9	265.4	298.9	298.9	312.3	315.3	307.9	290.7	265.4	254.2	255.7
107.5°	231.8	231.1	261.0	261.0	275.8	280.3	272.8	254.2	230.4	222.2	222.9
110°	204.3	203.5	227.4	227.4	243.8	248.3	239.3	219.9	199.8	194.6	195.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	179.6	177.4	180.4	197.5	212.5	217.7	208.7	188.6	173.0	170.7	171.4
115°	156.5	156.5	155.8	169.2	184.8	189.3	180.4	162.5	149.9	149.0	149.0
117.5°	137.9	136.5	135.6	143.8	158.0	163.3	155.1	138.6	130.4	131.2	132.0
120°	120.0	120.0	117.7	121.5	134.2	137.9	131.2	118.6	113.3	114.8	115.6
122.5°	105.1	104.3	102.1	102.9	111.8	116.3	109.6	99.8	98.4	101.4	101.4
125°	90.9	90.2	88.0	86.4	90.9	94.6	90.2	84.2	85.0	88.0	88.7
127.5°	78.3	77.5	74.6	71.6	73.8	76.0	73.0	70.1	73.8	76.0	76.8
130°	67.1	66.4	63.3	58.9	58.1	59.6	57.4	58.1	62.6	66.4	66.4
132.5°	56.7	56.7	52.9	47.7	44.7	44.7	44.7	47.7	52.9	56.0	56.7
135°	47.0	47.0	44.0	38.1	32.8	32.0	32.8	38.1	44.0	46.2	47.0
137.5°	38.8	38.1	35.0	29.8	23.1	21.6	23.1	29.1	35.0	38.1	38.1
140°	30.6	29.8	26.8	22.4	16.4	13.4	16.4	21.6	26.8	29.8	29.8
142.5°	22.4	22.4	19.3	15.7	10.4	8.2	10.4	15.7	20.2	21.6	22.4
145°	15.7	15.7	13.4	9.7	5.9	4.5	5.9	10.4	13.4	15.7	15.7
147.5°	10.4	10.4	8.9	5.9	3.7	2.3	3.7	6.8	8.9	10.4	10.4
150°	5.9	5.9	5.2	3.7	1.5	0.7	1.5	3.7	5.2	5.9	5.9
152.5°	3.0	3.0	2.3	1.5	0.7	0.7	0.7	1.5	3.0	3.0	3.7
155°	1.5	1.5	1.5	0.7	0.0	0.0	0.0	0.7	1.5	1.5	1.5
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)