

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: P266290

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.1 lumens
Efficiency: N/A
Efficacy: 81.9 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: B1 - U3 - G1

Input Watts (W): 31
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

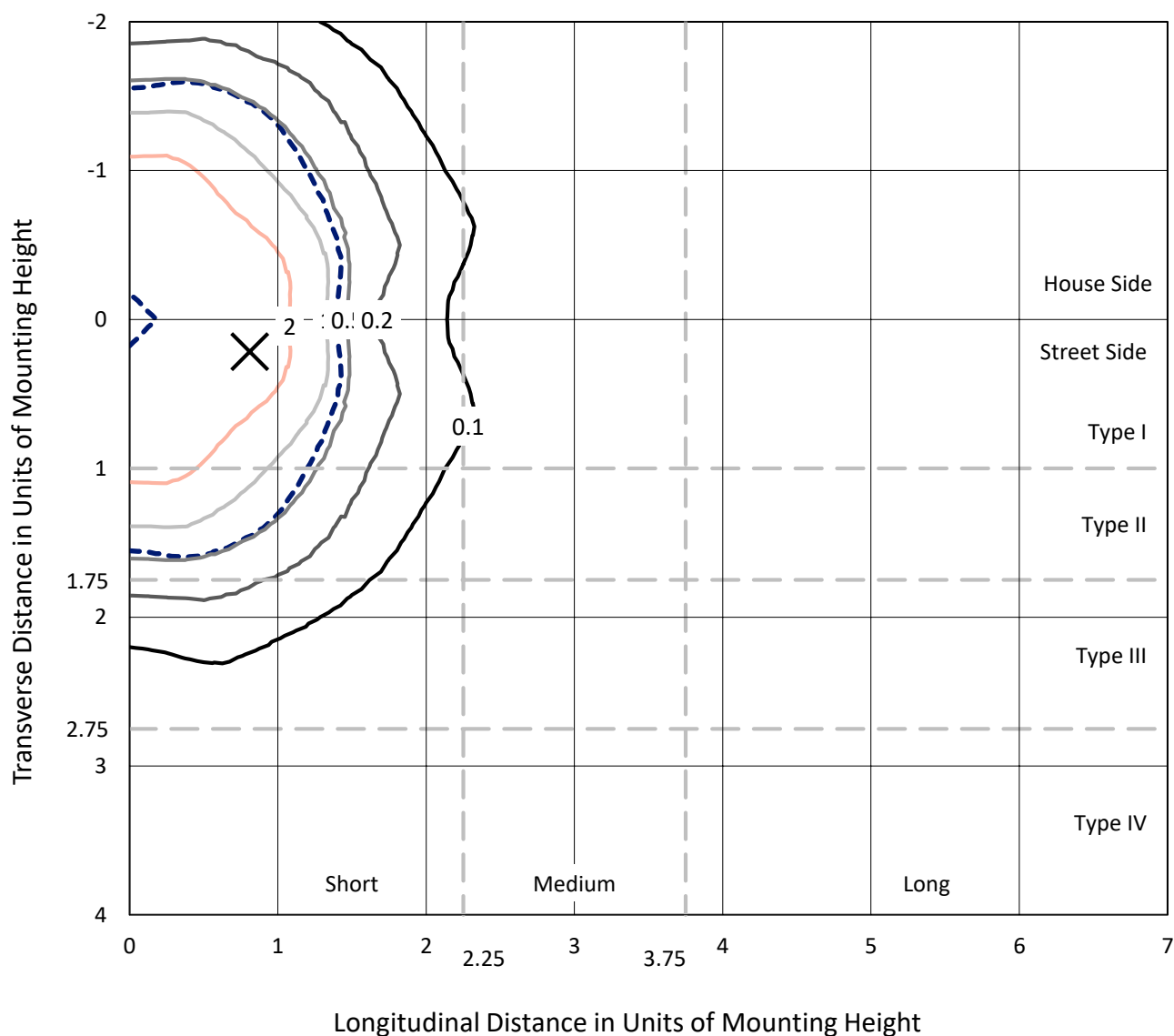


REPORT NUMBER: P266290

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

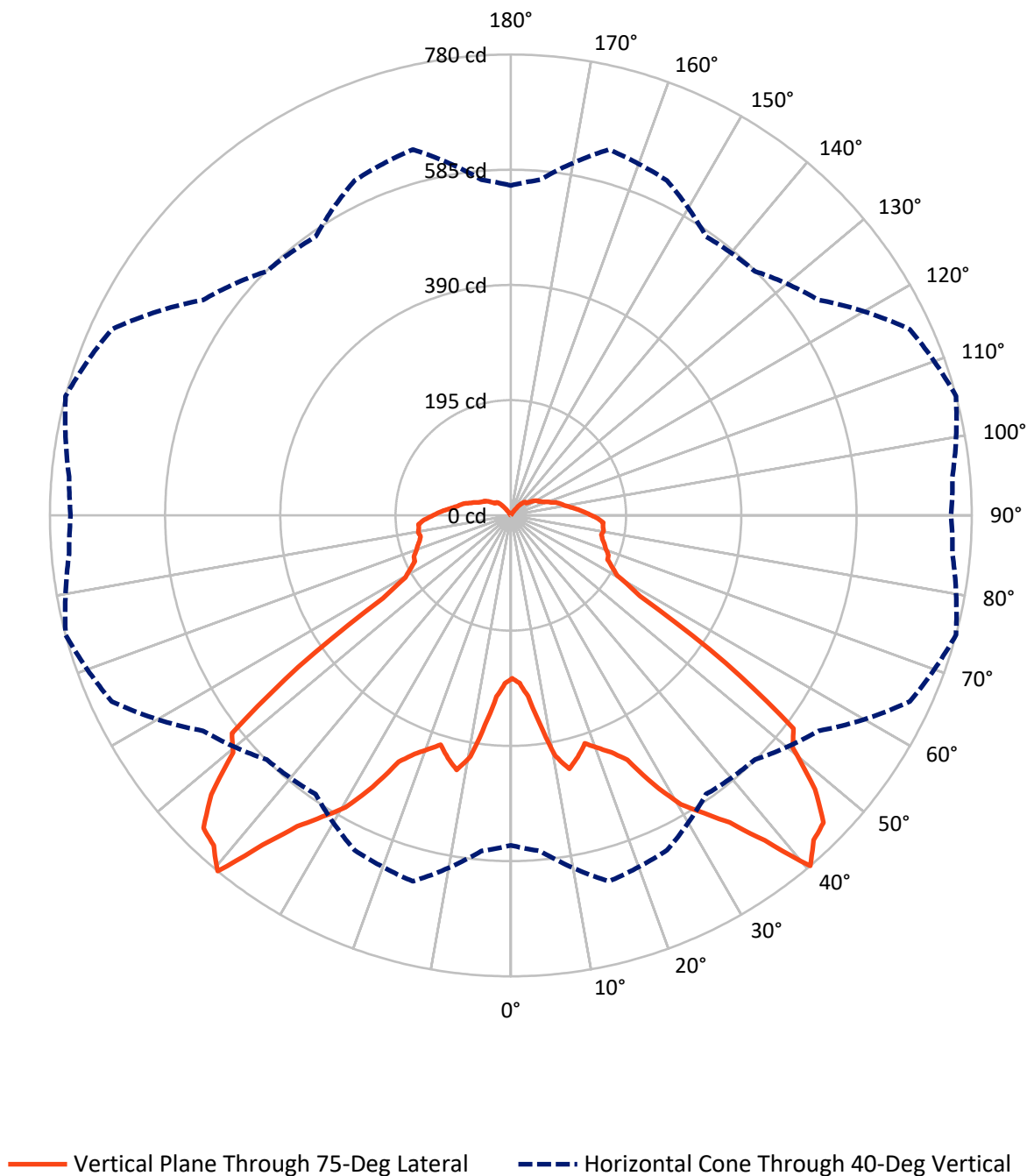


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266290

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266290

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-A-7027

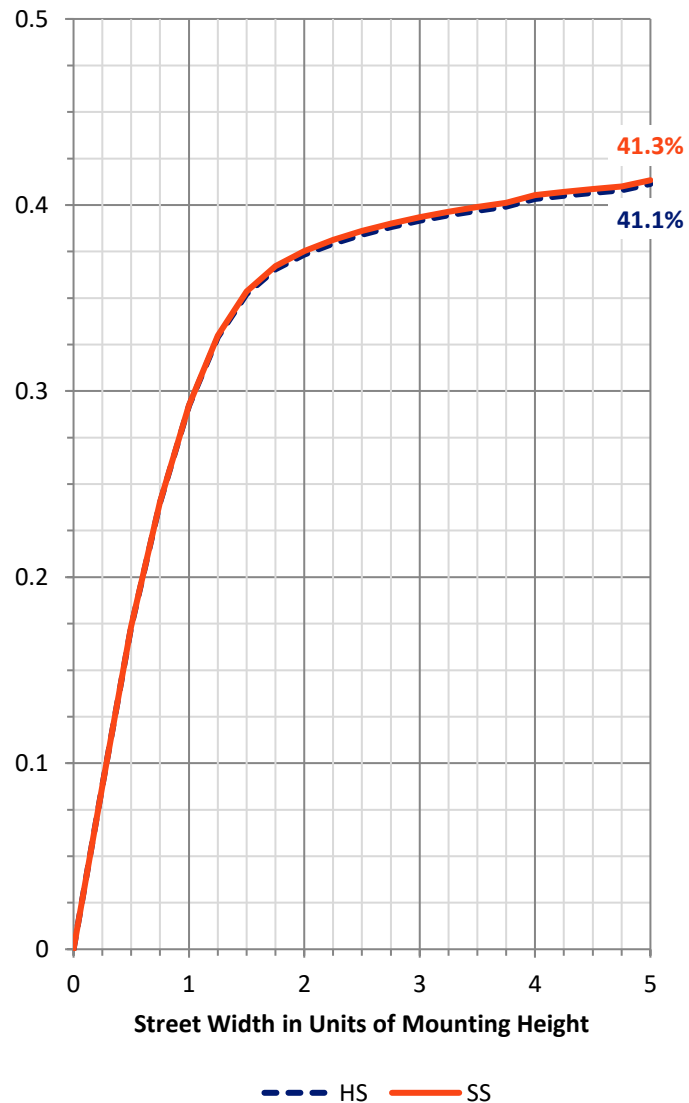
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.1	171.9	1269.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1097.1	171.9	1269.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	2194.2	343.9	2538.1
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.3
10°-20°	132.2	5.2
20°-30°	236.2	9.3
30°-40°	373.9	14.7
40°-50°	501.6	19.8
50°-60°	399.3	15.7
60°-70°	183.2	7.2
70°-80°	167.0	6.6
80°-90°	168.3	6.6
90°-100°	129.4	5.1
100°-110°	90.4	3.6
110°-120°	59.7	2.4
120°-130°	37.3	1.5
130°-140°	21.8	0.9
140°-150°	5.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2194.2	86.5
0°-180°	2538.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266290

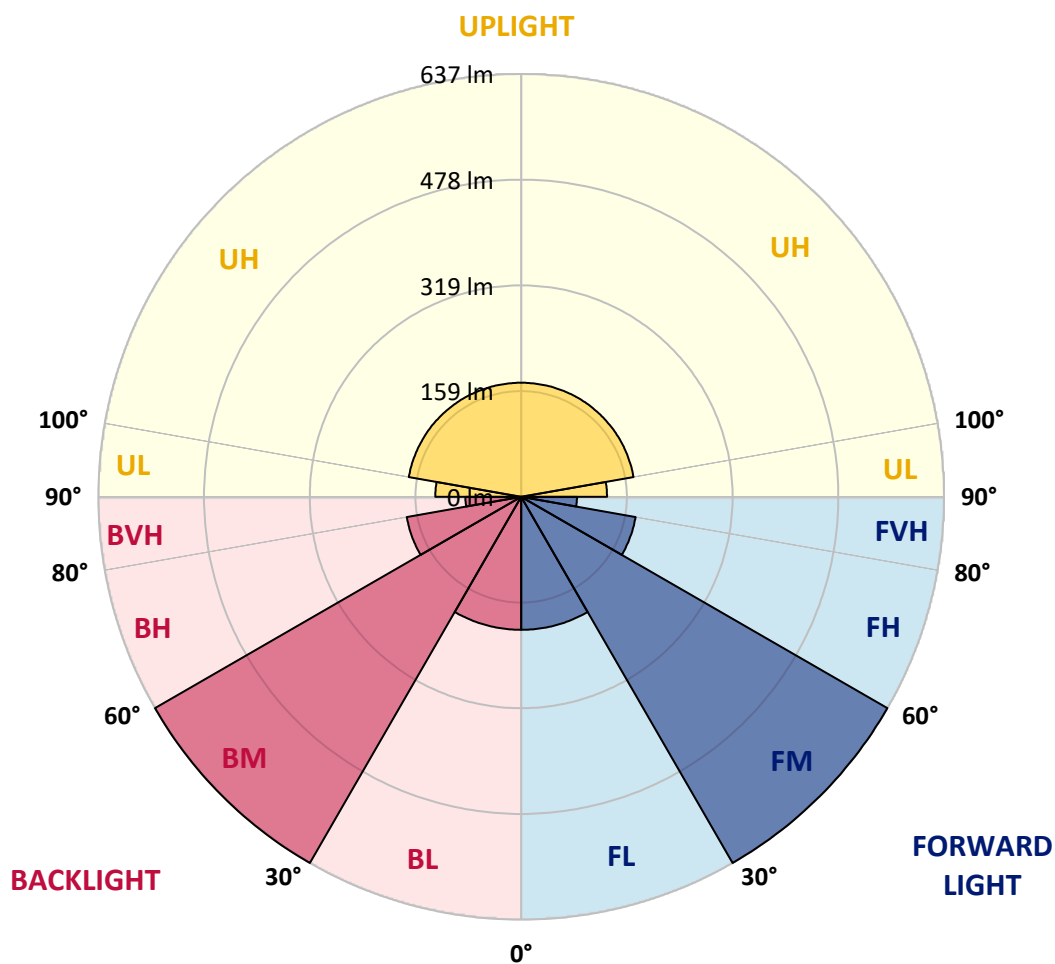
CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.5	7.9			
FM	(30°-60°)	637.4	25.1			
FH	(60°-80°)	175.1	6.9			G0/660
FVH	(80°-90°)	84.1	3.3			G1/100
BL	(0°-30°)	200.5	7.9	B1/500		
BM	(30°-60°)	637.4	25.1	B1/1000		
BH	(60°-80°)	175.1	6.9	B1/500		G0/660
BVH	(80°-90°)	84.1	3.3			G1/100
UL	(90°-100°)	129.4	5.1		U3/500	
UH	(100°-180°)	171.9	6.8		U3/500	

BUG Rating: B1-U3-G1

Type V Short





REPORT NUMBER: P266290

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	283.2	283.2	283.2	282.5	283.2	284.0	284.6	284.6	284.3	283.2	282.5
5°	303.2	303.2	302.8	303.4	303.4	302.2	302.8	305.2	307.6	305.9	305.2
7.5°	351.4	350.5	348.2	346.0	343.7	343.7	348.8	351.9	357.3	358.0	356.3
10°	400.1	401.5	402.9	402.9	408.5	415.0	419.4	418.2	413.9	411.0	409.0
12.5°	414.4	415.3	427.2	457.0	478.9	496.9	481.6	458.7	440.3	428.5	427.2
15°	425.2	428.0	442.8	480.0	535.0	549.9	518.4	460.0	424.4	407.7	403.9
17.5°	435.9	439.0	464.1	517.9	561.4	557.7	519.8	457.2	405.6	383.2	380.5
20°	426.5	429.8	465.1	537.0	568.8	550.9	537.7	478.9	420.0	394.4	391.4
22.5°	430.3	433.6	469.2	539.1	558.7	559.7	539.4	504.3	435.3	405.9	401.2
25°	437.0	439.7	483.6	554.3	554.7	551.9	541.8	522.5	458.2	430.3	426.2
27.5°	437.0	439.5	488.7	547.8	551.6	545.5	558.3	565.5	516.0	491.1	492.1
30°	456.6	458.0	509.0	547.2	538.8	543.5	579.6	601.2	567.5	527.2	526.9
32.5°	494.7	501.3	555.0	570.6	537.4	541.8	585.1	622.9	601.0	552.5	547.2
35°	543.8	545.5	594.9	590.7	547.2	544.8	597.9	657.0	638.4	590.7	589.1
37.5°	559.7	562.1	620.9	610.0	559.0	561.0	619.2	698.6	698.0	659.7	647.6
40°	558.3	570.2	641.1	625.3	576.0	584.3	635.7	745.2	780.1	750.4	745.0
42.5°	659.0	665.1	706.6	649.3	591.4	591.4	642.5	736.2	751.6	694.8	683.7
45°	669.5	669.1	714.8	668.9	595.5	581.7	618.6	701.2	741.9	704.4	687.8
47.5°	647.9	656.3	713.2	657.6	588.1	554.0	577.3	661.4	692.9	635.0	621.8
50°	624.6	631.0	674.3	606.6	551.2	526.9	544.6	605.3	617.9	548.1	538.1
52.5°	560.7	561.4	612.7	559.4	519.1	494.1	508.4	564.8	598.9	532.3	525.1
55°	475.3	484.4	549.6	516.4	481.3	459.7	462.4	471.8	441.7	342.1	318.7
57.5°	363.4	375.1	451.2	452.8	425.8	391.4	353.6	299.4	257.9	165.6	159.2
60°	247.5	257.5	314.9	329.1	340.0	300.5	244.7	213.5	207.1	143.6	138.9
62.5°	153.2	161.5	215.4	220.4	244.0	219.4	194.0	184.5	192.0	137.3	133.8
65°	141.7	147.3	186.8	179.5	185.2	183.9	172.7	170.9	180.1	133.8	131.5
67.5°	136.9	141.7	173.1	167.7	170.0	172.0	164.3	165.6	178.1	136.5	133.8
70°	134.6	139.5	168.6	164.8	167.4	169.3	164.6	162.6	170.7	137.6	133.8
72.5°	132.8	138.2	161.9	159.4	165.9	171.3	166.6	162.2	165.6	138.2	134.6
75°	129.7	135.1	155.8	157.2	166.9	173.5	167.4	160.5	160.2	136.9	132.5
77.5°	129.0	135.1	149.4	157.8	167.4	175.8	170.9	161.2	156.8	137.6	132.1
80°	128.1	134.8	152.4	163.2	170.0	174.5	172.4	165.6	159.2	142.7	136.9
82.5°	133.8	140.0	155.1	167.4	169.3	168.6	168.6	164.3	157.2	143.0	137.6
85°	140.9	145.6	161.5	168.6	166.9	162.6	160.5	160.2	156.8	146.8	142.3
87.5°	139.5	143.0	153.8	160.5	161.2	152.4	152.7	150.7	147.1	136.9	133.2
90°	130.4	132.8	144.9	152.2	147.7	140.7	137.6	133.5	133.8	124.8	122.0
92.5°	124.3	127.1	135.9	140.0	139.2	127.4	125.5	125.0	123.0	115.3	113.5
95°	116.3	117.9	125.5	130.9	127.4	115.3	113.2	111.5	111.8	108.9	109.1
97.5°	114.3	115.6	121.0	120.0	114.3	103.8	102.3	101.8	101.4	99.7	99.4
100°	109.9	109.9	111.5	108.4	101.8	94.0	91.9	92.3	92.6	90.5	89.9
102.5°	102.3	102.8	103.5	100.7	94.3	86.1	84.1	85.9	86.5	85.9	85.5
105°	96.9	96.7	96.9	94.0	86.9	79.8	77.4	79.1	80.8	81.0	80.5
107.5°	88.9	88.6	88.6	85.5	80.0	74.4	72.4	71.3	71.3	71.3	71.3
110°	77.1	77.4	77.4	76.0	73.3	70.0	67.3	65.2	65.8	65.5	66.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	71.7	71.7	71.0	70.0	67.3	63.9	60.8	59.5	58.7	58.5	58.7
115°	65.8	66.3	64.1	63.5	60.8	58.7	55.8	54.7	54.7	55.8	56.5
117.5°	60.8	60.8	59.5	57.9	55.4	53.8	52.5	51.7	51.7	53.1	53.1
120°	55.1	55.1	53.8	51.7	50.8	48.2	48.7	48.2	49.3	51.1	51.4
122.5°	48.7	48.7	47.3	45.6	46.4	44.6	43.9	42.6	44.6	46.6	47.0
125°	43.3	42.8	41.6	39.5	42.2	42.2	40.6	36.1	38.8	40.6	41.0
127.5°	39.5	39.2	37.5	35.6	38.8	41.0	37.2	32.8	34.1	35.8	36.6
130°	37.5	37.2	35.6	33.1	34.1	38.8	33.4	31.4	33.1	34.9	34.9
132.5°	36.1	35.8	34.5	32.1	30.5	35.6	30.1	30.7	33.1	34.9	34.9
135°	33.4	33.4	31.8	28.3	24.3	26.1	24.3	27.7	30.5	31.8	32.1
137.5°	28.7	28.7	27.4	24.3	19.7	18.5	19.3	23.6	26.7	28.0	28.0
140°	22.6	22.3	21.0	18.2	12.8	8.9	12.4	18.0	21.0	22.3	22.3
142.5°	15.9	15.5	13.8	11.1	6.7	3.1	6.7	10.8	13.8	15.2	15.5
145°	10.2	10.2	8.9	6.7	3.4	1.0	2.8	6.4	8.4	9.8	9.8
147.5°	6.4	6.4	5.4	3.8	1.0	0.7	1.0	3.1	5.1	6.1	6.4
150°	3.8	3.8	2.8	1.3	0.7	0.3	0.7	1.0	2.1	3.1	3.1
152.5°	1.3	1.0	0.7	0.7	0.3	0.3	0.3	0.7	0.7	1.0	1.0
155°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	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)