

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: P266358

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266358
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-AF24-50-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 4230.1 lumens
Efficiency: N/A
Efficacy: 78.3 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 - U3 - G2

Input Watts (W): 54
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



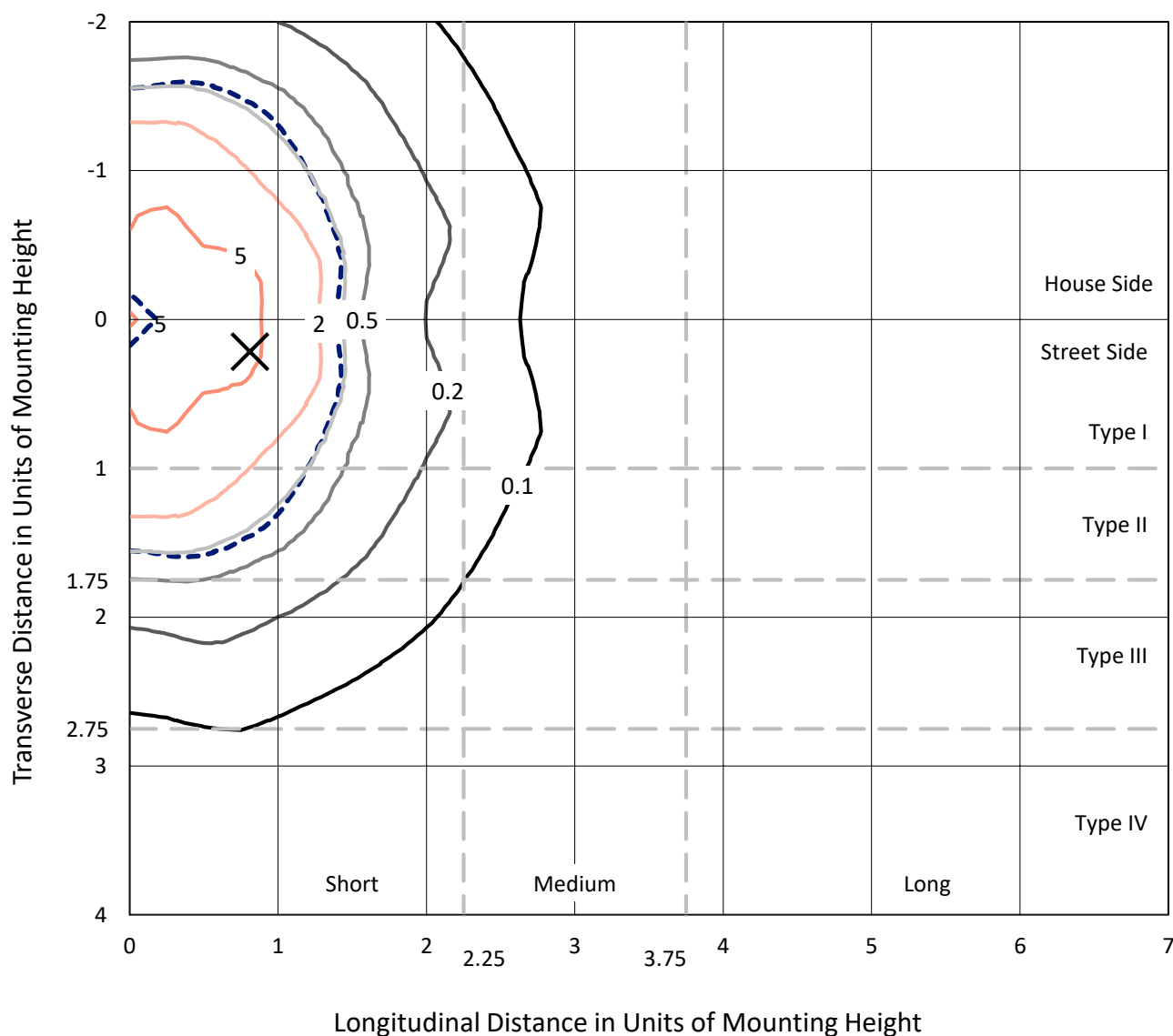
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

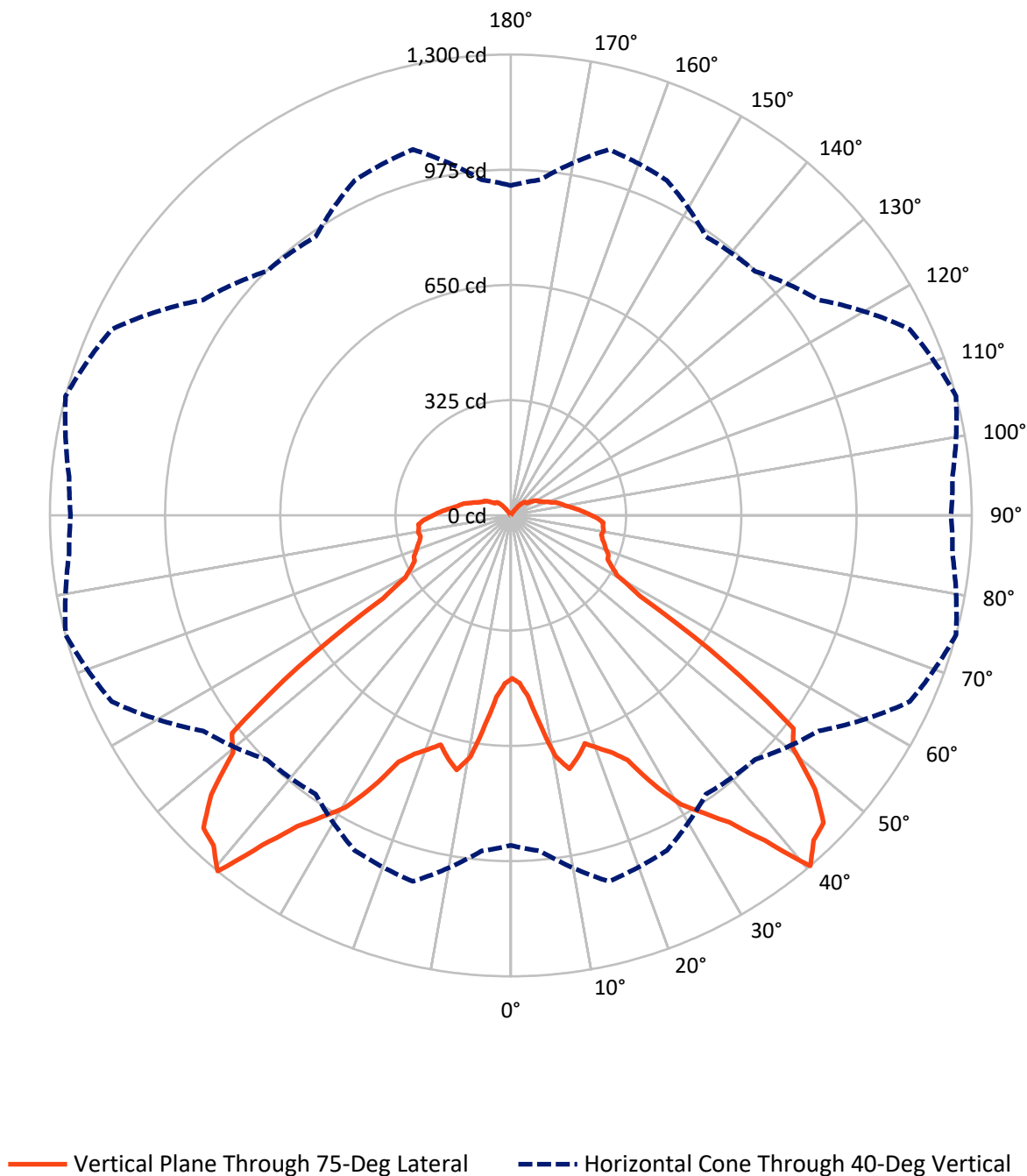


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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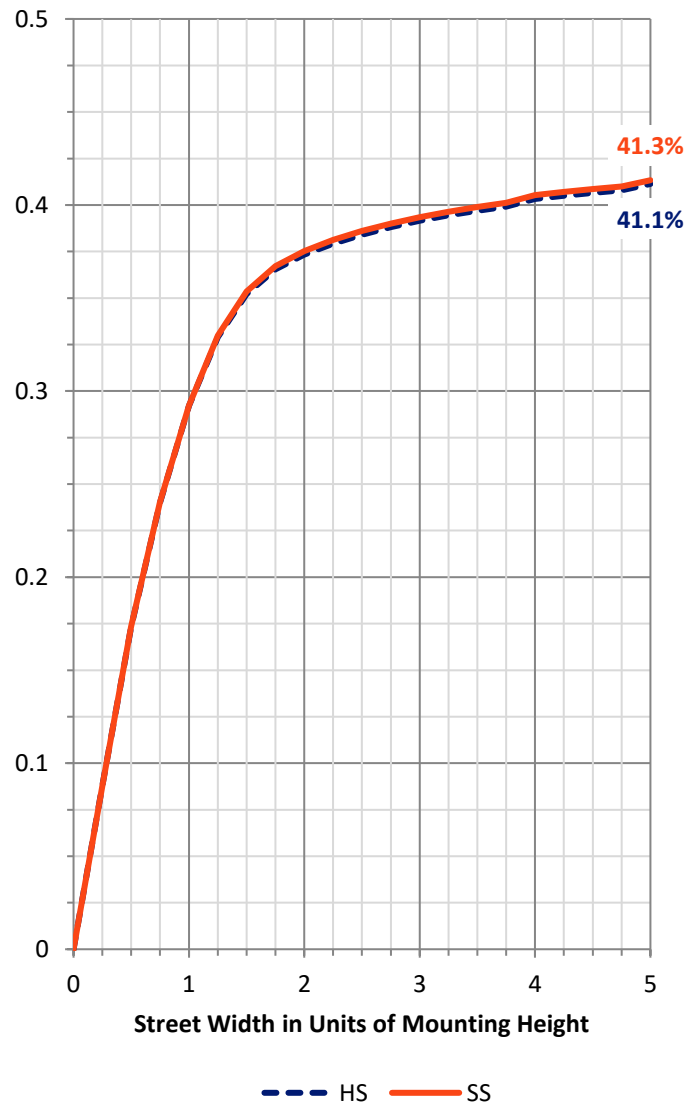
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1828.5	286.6	2115.1
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1828.5	286.6	2115.1
	% Fixture	43.2	6.8	50.0
Total	Lumens	3657.0	573.1	4230.1
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.3
10°-20°	220.3	5.2
20°-30°	393.6	9.3
30°-40°	623.1	14.7
40°-50°	836.0	19.8
50°-60°	665.5	15.7
60°-70°	305.4	7.2
70°-80°	278.4	6.6
80°-90°	280.5	6.6
90°-100°	215.7	5.1
100°-110°	150.6	3.6
110°-120°	99.5	2.4
120°-130°	62.2	1.5
130°-140°	36.4	0.9
140°-150°	8.3	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3657.0	86.5
0°-180°	4230.1	100.0

Coefficient of Utilization



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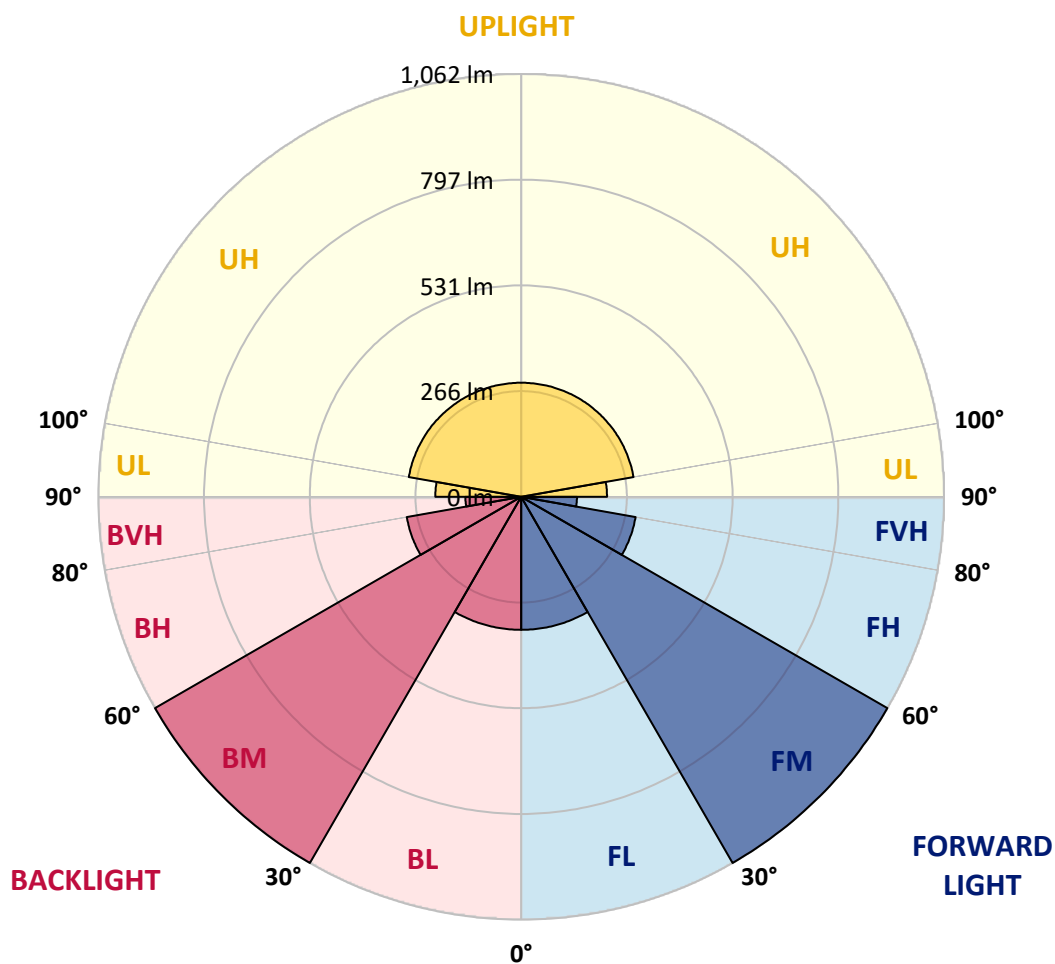
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.1	7.9			
FM	(30°-60°)	1062.3	25.1			
FH	(60°-80°)	291.9	6.9			G0/660
FVH	(80°-90°)	140.2	3.3			G2/225
BL	(0°-30°)	334.1	7.9	B1/500		
BM	(30°-60°)	1062.3	25.1	B2/2500		
BH	(60°-80°)	291.9	6.9	B1/500		G0/660
BVH	(80°-90°)	140.2	3.3			G2/225
UL	(90°-100°)	215.7	5.1		U3/500	
UH	(100°-180°)	286.6	6.8		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	472.0	472.0	472.0	470.9	472.0	473.1	474.2	474.2	473.8	472.0	470.9
5°	505.2	505.2	504.7	505.8	505.8	503.6	504.7	508.7	512.7	509.8	508.7
7.5°	585.9	584.2	580.1	576.8	572.8	572.8	581.4	586.5	595.3	596.6	593.7
10°	666.9	669.1	671.5	671.5	681.0	691.8	699.1	696.7	690.1	685.0	681.6
12.5°	690.5	692.4	711.9	761.6	798.2	828.1	802.6	764.4	733.9	714.2	711.9
15°	708.7	713.2	737.9	799.9	891.7	916.5	864.1	766.7	707.5	679.4	673.1
17.5°	726.6	731.7	773.4	863.0	935.7	929.4	866.3	762.1	676.0	638.8	634.3
20°	710.9	716.5	775.1	895.2	948.0	918.2	896.1	798.2	700.1	657.4	652.3
22.5°	717.0	722.6	781.9	898.5	931.2	932.8	899.1	840.5	725.6	676.6	668.6
25°	728.3	732.8	806.0	923.7	924.4	919.9	902.9	870.8	763.7	717.0	710.3
27.5°	728.3	732.3	814.6	913.0	919.2	909.2	930.6	942.4	860.1	818.4	820.2
30°	761.0	763.3	848.3	912.0	897.9	905.9	966.0	1002.1	945.7	878.7	878.3
32.5°	824.6	835.3	925.0	950.9	895.6	902.9	975.1	1038.1	1001.5	921.0	912.0
35°	906.3	909.2	991.4	984.6	912.0	908.0	996.5	1095.0	1064.0	984.6	981.8
37.5°	932.8	936.8	1034.8	1016.7	931.7	935.0	1032.0	1164.4	1163.2	1099.5	1079.3
40°	930.6	950.2	1068.5	1042.2	959.8	973.9	1059.6	1242.0	1300.0	1250.5	1241.5
42.5°	1098.4	1108.6	1177.9	1082.1	985.8	985.8	1070.8	1226.8	1252.7	1158.2	1139.6
45°	1115.9	1115.3	1191.4	1114.7	992.5	969.5	1030.8	1168.9	1236.4	1173.9	1146.2
47.5°	1079.9	1094.0	1188.5	1096.2	980.1	923.3	962.2	1102.4	1154.7	1058.5	1036.5
50°	1041.0	1051.6	1123.8	1011.1	918.7	878.3	907.5	1008.8	1029.6	913.7	896.8
52.5°	934.4	935.7	1021.3	932.3	865.2	823.6	847.2	941.2	998.1	887.2	875.4
55°	791.9	807.1	915.9	860.8	802.1	766.1	770.6	786.3	736.3	570.1	531.2
57.5°	605.5	625.3	752.1	754.8	709.8	652.3	589.2	499.1	429.7	276.0	265.3
60°	412.3	429.2	525.0	548.7	566.7	500.7	407.8	356.0	345.3	239.4	231.6
62.5°	255.2	269.2	358.9	367.2	406.8	365.6	323.3	307.6	319.9	228.7	223.0
65°	236.1	245.5	311.5	299.1	308.7	306.4	287.8	285.0	300.3	223.0	219.1
67.5°	228.1	236.1	288.4	279.5	283.3	286.6	273.8	276.0	296.9	227.6	223.0
70°	224.1	232.7	281.1	274.9	278.8	282.2	274.3	271.0	284.5	229.2	223.0
72.5°	221.4	230.3	269.9	265.9	276.6	285.7	277.7	270.4	276.0	230.3	224.1
75°	216.3	225.4	259.7	261.9	278.3	289.0	278.8	267.5	266.9	228.1	220.9
77.5°	215.1	225.4	249.0	263.1	278.8	292.8	285.0	268.8	261.3	229.2	220.3
80°	213.4	224.8	254.0	272.0	283.3	290.6	287.3	276.0	265.3	237.7	228.1
82.5°	223.0	233.2	258.5	278.8	282.2	281.1	281.1	273.8	261.9	238.3	229.2
85°	234.8	242.8	269.2	281.1	278.3	271.0	267.5	266.9	261.3	244.5	237.2
87.5°	232.7	238.3	256.2	267.5	268.8	254.0	254.6	251.3	245.1	228.1	221.9
90°	217.4	221.4	241.6	253.5	246.1	234.4	229.2	222.5	223.0	207.9	203.3
92.5°	207.2	211.8	226.5	233.2	232.1	212.4	208.9	208.4	205.1	192.1	189.3
95°	193.8	196.5	208.9	218.0	212.4	192.1	188.7	185.9	186.5	181.4	181.9
97.5°	190.4	192.6	201.7	200.0	190.4	173.0	170.7	169.6	169.1	166.1	165.6
100°	183.1	183.1	185.9	180.7	169.6	156.7	153.3	153.8	154.4	150.9	149.8
102.5°	170.7	171.2	172.4	167.9	157.2	143.6	140.2	143.1	144.2	143.1	142.6
105°	161.7	161.1	161.7	156.7	144.7	132.9	128.9	131.8	134.7	135.1	134.0
107.5°	148.1	147.6	147.6	142.6	133.5	124.0	120.6	118.8	118.8	118.8	118.8
110°	128.5	128.9	128.9	126.8	122.2	116.6	112.1	108.8	109.9	109.2	110.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	119.5	119.5	118.2	116.6	112.1	106.4	101.4	99.2	98.1	97.5	98.1
115°	109.9	110.4	107.0	105.9	101.4	98.1	93.0	91.3	91.3	93.0	94.1
117.5°	101.4	101.4	99.2	96.3	92.3	89.7	87.3	86.1	86.1	88.5	88.5
120°	91.7	91.7	89.7	86.1	84.5	80.6	81.0	80.6	82.3	85.1	85.6
122.5°	81.0	81.0	78.8	76.0	77.2	74.4	73.2	71.0	74.4	77.8	78.3
125°	72.1	71.5	69.3	65.8	70.3	70.3	67.6	60.2	64.8	67.6	68.1
127.5°	65.8	65.3	62.5	59.2	64.8	68.1	62.0	54.6	57.0	59.6	60.8
130°	62.5	62.0	59.2	55.2	57.0	64.8	55.8	52.5	55.2	58.0	58.0
132.5°	60.2	59.6	57.4	53.4	50.8	59.2	50.1	51.3	55.2	58.0	58.0
135°	55.8	55.8	52.9	47.3	40.6	43.4	40.6	46.3	50.8	52.9	53.4
137.5°	47.9	47.9	45.6	40.6	32.7	31.0	32.1	39.4	44.5	46.7	46.7
140°	37.8	37.2	34.9	30.5	21.4	14.6	20.8	29.9	34.9	37.2	37.2
142.5°	26.5	26.0	23.0	18.5	11.3	5.1	11.3	18.1	23.0	25.3	26.0
145°	16.9	16.9	14.6	11.3	5.6	1.6	4.5	10.7	14.1	16.3	16.3
147.5°	10.7	10.7	9.1	6.2	1.6	1.1	1.6	5.1	8.4	10.2	10.7
150°	6.2	6.2	4.5	2.2	1.1	0.5	1.1	1.6	3.4	5.1	5.1
152.5°	2.2	1.6	1.1	1.1	0.5	0.5	0.5	1.1	1.1	1.6	1.6
155°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
162.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	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)