

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: P239832

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 3798 lumens
Efficiency: N/A
Efficacy: 94.9 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 - G2

Input Watts (W): 40
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



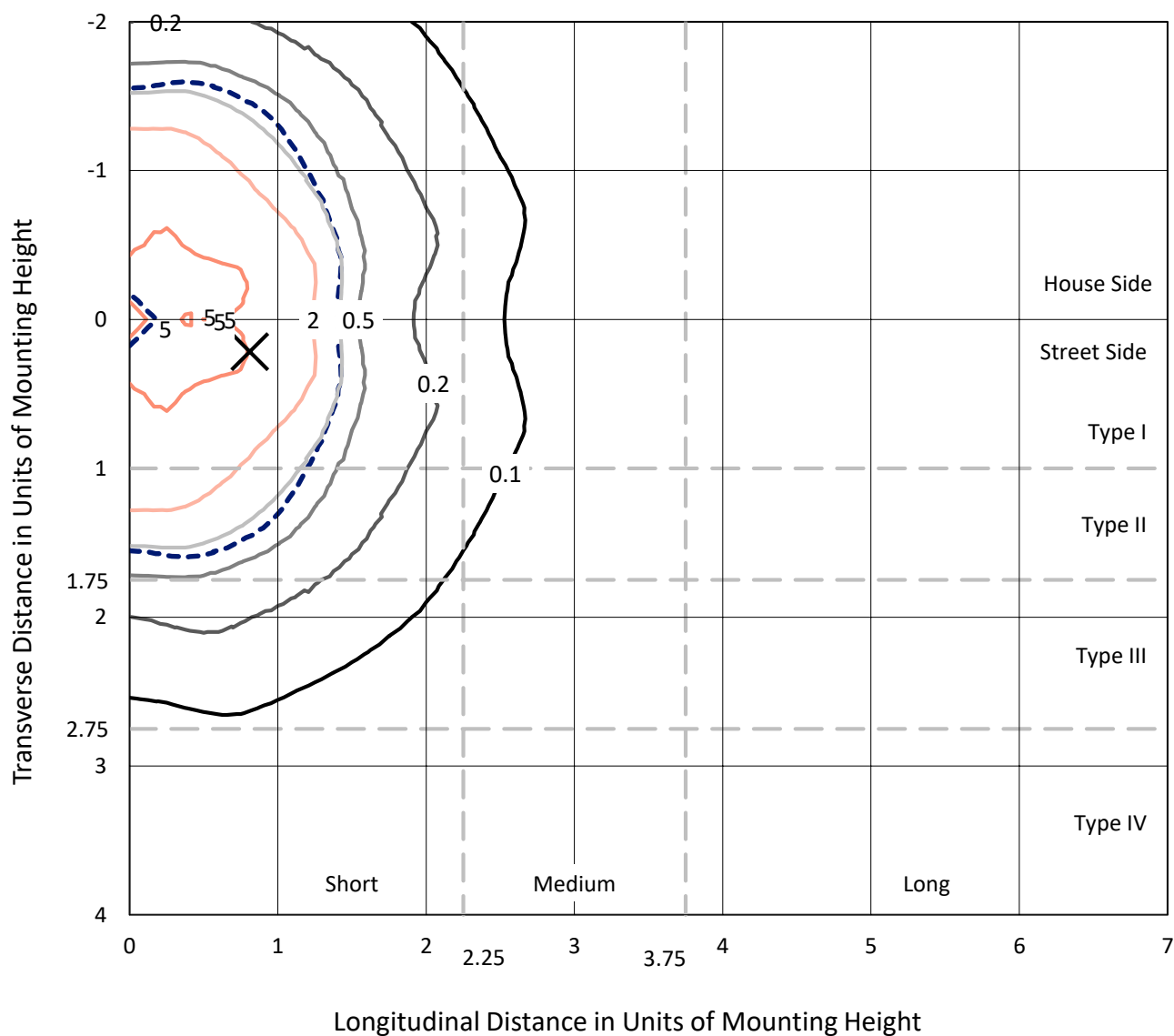
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

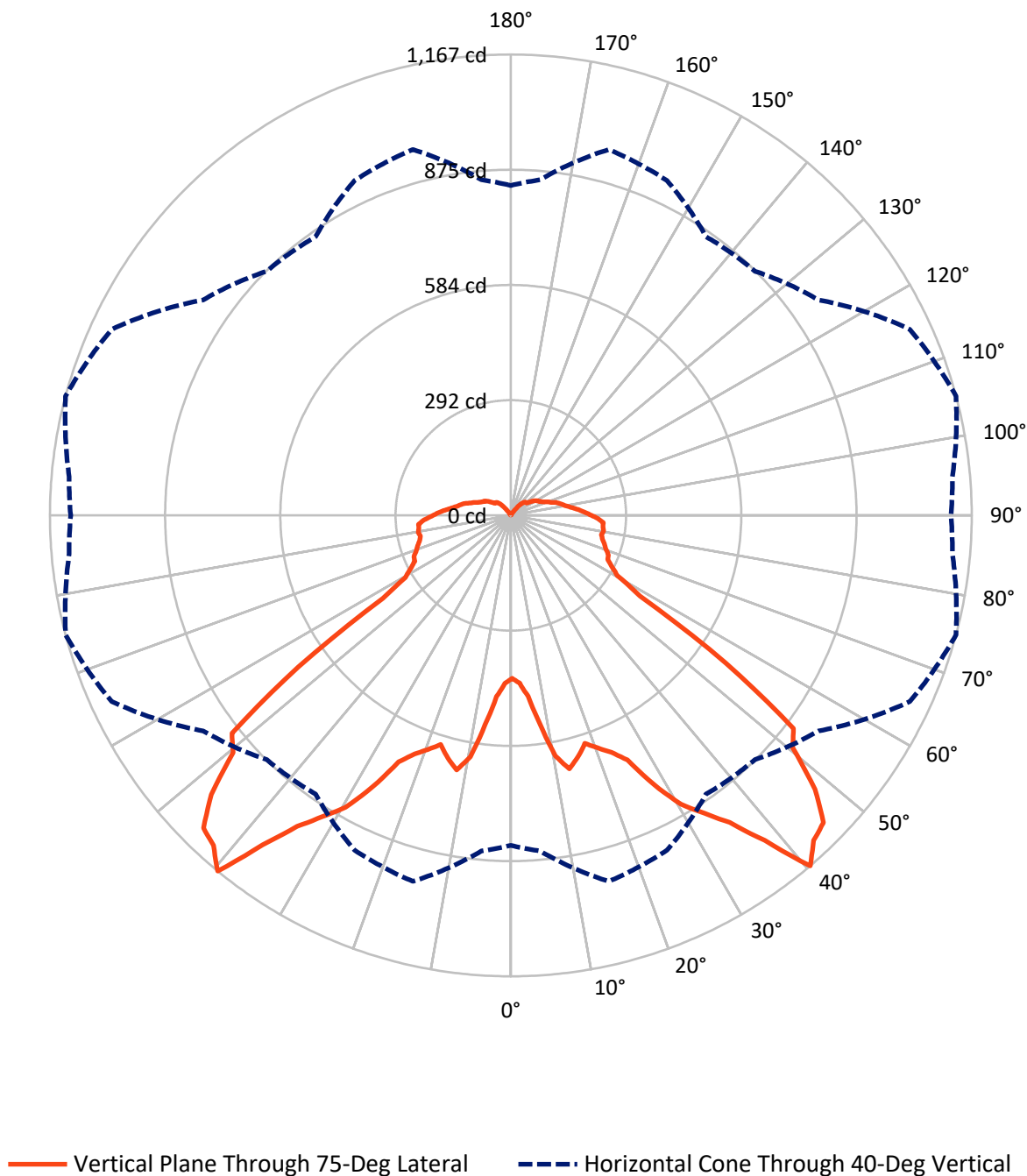


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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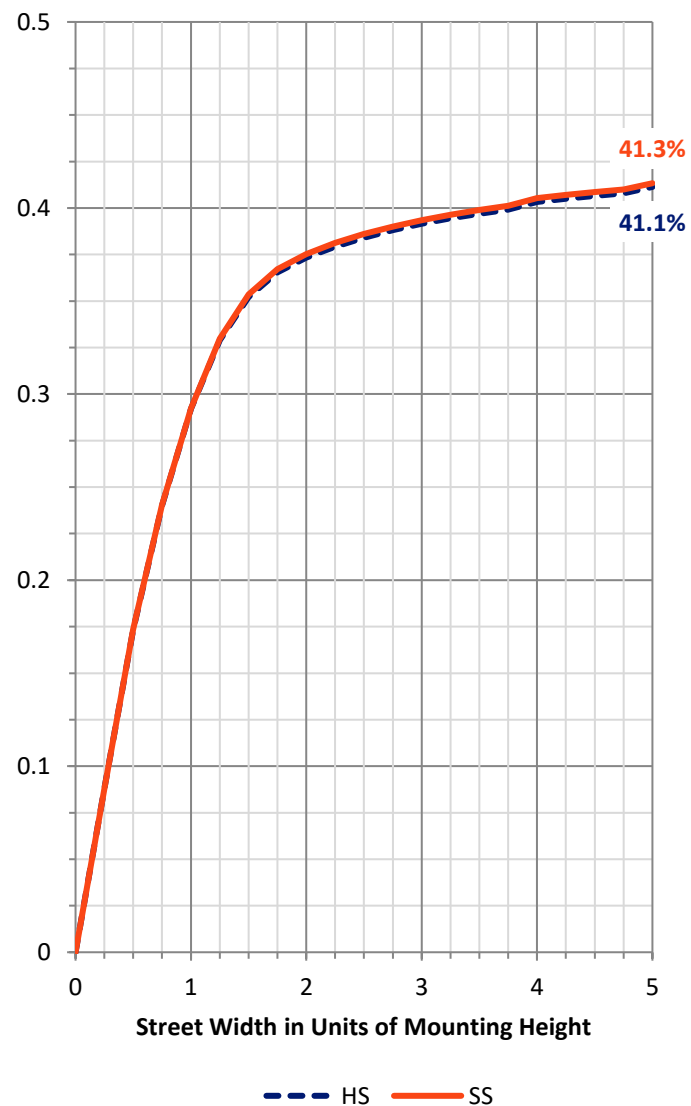
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.7	257.3	1899.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1641.7	257.3	1899.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	3283.4	514.6	3798.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.3
10°-20°	197.8	5.2
20°-30°	353.4	9.3
30°-40°	559.4	14.7
40°-50°	750.6	19.8
50°-60°	597.5	15.7
60°-70°	274.2	7.2
70°-80°	250.0	6.6
80°-90°	251.8	6.6
90°-100°	193.6	5.1
100°-110°	135.2	3.6
110°-120°	89.3	2.4
120°-130°	55.8	1.5
130°-140°	32.7	0.9
140°-150°	7.4	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3283.4	86.5
0°-180°	3798.0	100.0

Coefficient of Utilization



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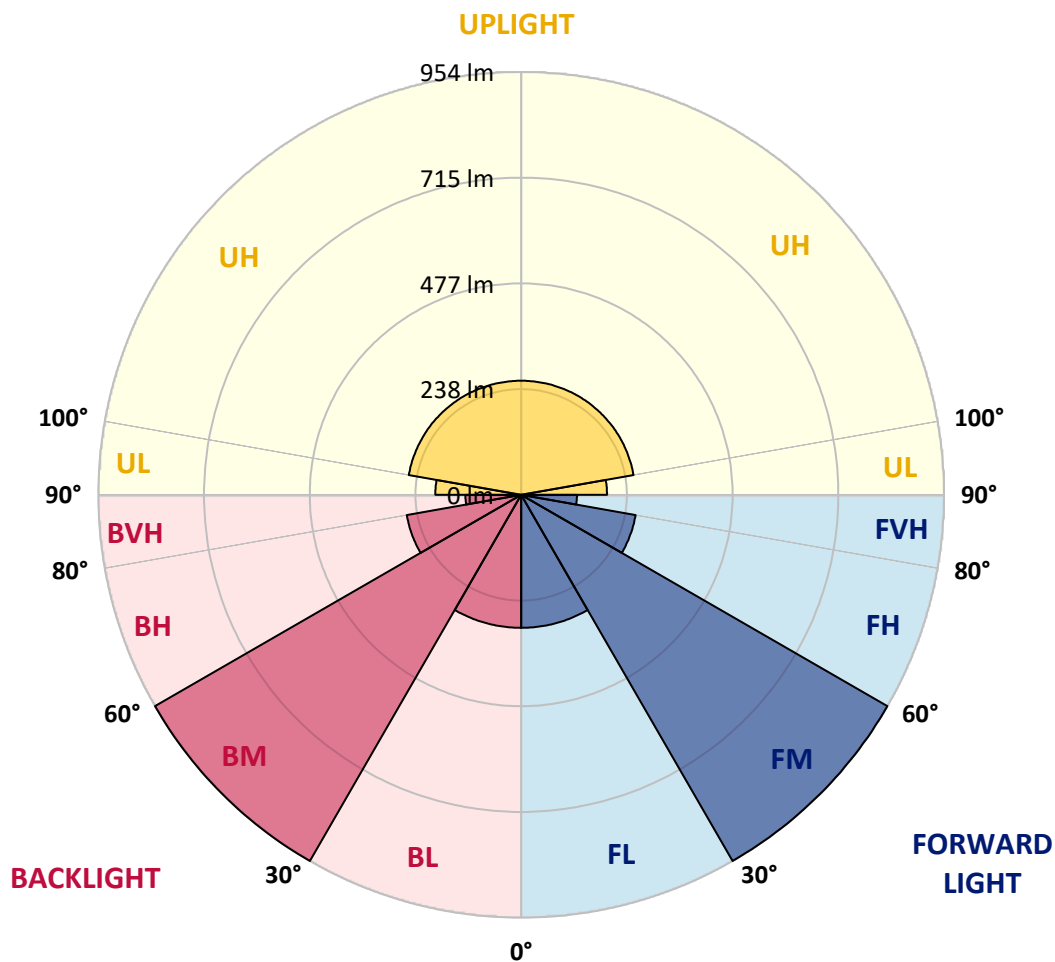
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.0	7.9			
FM	(30°-60°)	953.8	25.1			
FH	(60°-80°)	262.1	6.9			G0/660
FVH	(80°-90°)	125.9	3.3			G2/225
BL	(0°-30°)	300.0	7.9	B1/500		
BM	(30°-60°)	953.8	25.1	B1/1000		
BH	(60°-80°)	262.1	6.9	B1/500		G0/660
BVH	(80°-90°)	125.9	3.3			G2/225
UL	(90°-100°)	193.6	5.1		U3/500	
UH	(100°-180°)	257.3	6.8		U3/500	

BUG Rating: B1-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	423.8	423.8	423.8	422.8	423.8	424.8	425.8	425.8	425.3	423.8	422.8
5°	453.7	453.7	453.1	454.2	454.2	452.1	453.1	456.7	460.2	457.7	456.7
7.5°	526.0	524.5	520.9	517.9	514.3	514.3	521.9	526.5	534.6	535.6	533.1
10°	598.8	600.8	602.9	602.9	611.4	621.1	627.6	625.6	619.5	615.0	612.0
12.5°	620.0	621.6	639.3	683.8	716.6	743.4	720.7	686.3	659.0	641.3	639.3
15°	636.2	640.3	662.5	718.2	800.6	822.9	775.8	688.3	635.2	609.9	604.4
17.5°	652.4	657.0	694.4	774.8	840.0	834.5	777.8	684.3	606.9	573.5	569.5
20°	638.3	643.3	695.9	803.6	851.2	824.4	804.6	716.6	628.6	590.2	585.7
22.5°	643.8	648.9	702.0	806.7	836.0	837.5	807.2	754.6	651.4	607.4	600.3
25°	653.9	658.0	723.7	829.4	829.9	825.9	810.7	781.9	685.8	643.8	637.7
27.5°	653.9	657.5	731.3	819.8	825.4	816.3	835.5	846.1	772.3	734.9	736.4
30°	683.3	685.3	761.7	818.8	806.2	813.2	867.4	899.7	849.1	789.0	788.5
32.5°	740.4	750.0	830.4	853.7	804.1	810.7	875.4	932.1	899.2	826.9	818.8
35°	813.7	816.3	890.1	884.0	818.8	815.3	894.7	983.2	955.4	884.0	881.5
37.5°	837.5	841.1	929.1	912.9	836.5	839.5	926.5	1045.4	1044.4	987.2	969.0
40°	835.5	853.2	959.4	935.6	861.8	874.4	951.3	1115.2	1167.3	1122.8	1114.7
42.5°	986.2	995.3	1057.5	971.5	885.1	885.1	961.4	1101.5	1124.8	1039.8	1023.1
45°	1001.9	1001.4	1069.7	1000.9	891.1	870.4	925.5	1049.4	1110.1	1054.0	1029.2
47.5°	969.5	982.2	1067.1	984.2	880.0	828.9	863.8	989.7	1036.8	950.3	930.6
50°	934.6	944.2	1009.0	907.8	824.9	788.5	814.8	905.8	924.5	820.3	805.1
52.5°	839.0	840.0	916.9	837.0	776.8	739.4	760.6	845.1	896.2	796.6	785.9
55°	711.1	724.7	822.3	772.8	720.2	687.8	691.9	706.0	661.0	511.8	476.9
57.5°	543.7	561.4	675.2	677.7	637.2	585.7	529.0	448.1	385.9	247.8	238.2
60°	370.2	385.4	471.4	492.6	508.8	449.6	366.2	319.6	310.0	214.9	207.9
62.5°	229.1	241.7	322.2	329.7	365.1	328.2	290.3	276.1	287.3	205.3	200.3
65°	211.9	220.5	279.7	268.6	277.1	275.1	258.4	255.9	269.6	200.3	196.7
67.5°	204.8	211.9	258.9	250.9	254.4	257.4	245.8	247.8	266.5	204.3	200.3
70°	201.3	208.9	252.4	246.8	250.3	253.4	246.3	243.3	255.4	205.8	200.3
72.5°	198.8	206.9	242.3	238.7	248.3	256.4	249.3	242.8	247.8	206.9	201.3
75°	194.2	202.3	233.1	235.2	249.8	259.4	250.3	240.2	239.7	204.8	198.3
77.5°	193.2	202.3	223.5	236.2	250.3	263.0	255.9	241.2	234.7	205.8	197.7
80°	191.7	201.8	228.1	244.3	254.4	261.0	257.9	247.8	238.2	213.4	204.8
82.5°	200.3	209.4	232.1	250.3	253.4	252.4	252.4	245.8	235.2	213.9	205.8
85°	210.9	218.0	241.7	252.4	249.8	243.3	240.2	239.7	234.7	219.5	212.9
87.5°	208.9	213.9	230.1	240.2	241.2	228.1	228.6	225.6	220.0	204.8	199.3
90°	195.2	198.8	217.0	227.6	221.0	210.4	205.8	199.8	200.3	186.6	182.6
92.5°	186.1	190.2	203.3	209.4	208.4	190.7	187.6	187.1	184.1	172.5	169.9
95°	174.0	176.5	187.6	195.7	190.7	172.5	169.4	166.9	167.4	162.9	163.4
97.5°	170.9	173.0	181.1	179.5	170.9	155.3	153.2	152.2	151.7	149.2	148.7
100°	164.4	164.4	166.9	162.3	152.2	140.6	137.6	138.1	138.6	135.5	134.5
102.5°	153.2	153.7	154.8	150.7	141.1	129.0	125.9	128.5	129.5	128.5	128.0
105°	145.1	144.6	145.1	140.6	130.0	119.4	115.8	118.3	120.9	121.4	120.4
107.5°	133.0	132.5	132.5	128.0	119.9	111.3	108.2	106.7	106.7	106.7	106.7
110°	115.3	115.8	115.8	113.8	109.7	104.7	100.6	97.6	98.6	98.1	99.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	107.2	107.2	106.2	104.7	100.6	95.6	91.0	89.0	88.0	87.5	88.0
115°	98.6	99.1	96.1	95.1	91.0	88.0	83.4	81.9	81.9	83.4	84.5
117.5°	91.0	91.0	89.0	86.5	82.9	80.4	78.4	77.4	77.4	79.4	79.4
120°	82.4	82.4	80.4	77.4	75.9	72.3	72.8	72.3	73.8	76.4	76.9
122.5°	72.8	72.8	70.8	68.3	69.3	66.8	65.7	63.7	66.8	69.8	70.3
125°	64.7	64.2	62.2	59.2	63.2	63.2	60.7	54.1	58.2	60.7	61.2
127.5°	59.2	58.7	56.1	53.1	58.2	61.2	55.6	49.1	51.1	53.6	54.6
130°	56.1	55.6	53.1	49.6	51.1	58.2	50.1	47.0	49.6	52.1	52.1
132.5°	54.1	53.6	51.6	48.0	45.5	53.1	45.0	46.0	49.6	52.1	52.1
135°	50.1	50.1	47.5	42.5	36.4	38.9	36.4	41.5	45.5	47.5	48.0
137.5°	43.0	43.0	41.0	36.4	29.3	27.8	28.8	35.4	40.0	42.0	42.0
140°	33.9	33.4	31.4	27.3	19.2	13.1	18.7	26.8	31.4	33.4	33.4
142.5°	23.8	23.3	20.7	16.7	10.1	4.6	10.1	16.2	20.7	22.8	23.3
145°	15.2	15.2	13.1	10.1	5.1	1.5	4.0	9.6	12.6	14.7	14.7
147.5°	9.6	9.6	8.1	5.6	1.5	1.0	1.5	4.6	7.6	9.1	9.6
150°	5.6	5.6	4.0	2.0	1.0	0.5	1.0	1.5	3.0	4.6	4.6
152.5°	2.0	1.5	1.0	1.0	0.5	0.5	0.5	1.0	1.0	1.5	1.5
155°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
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)