

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: P240105

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240105
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 6648.1 lumens
Efficiency: N/A
Efficacy: 89.8 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: B3 - 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



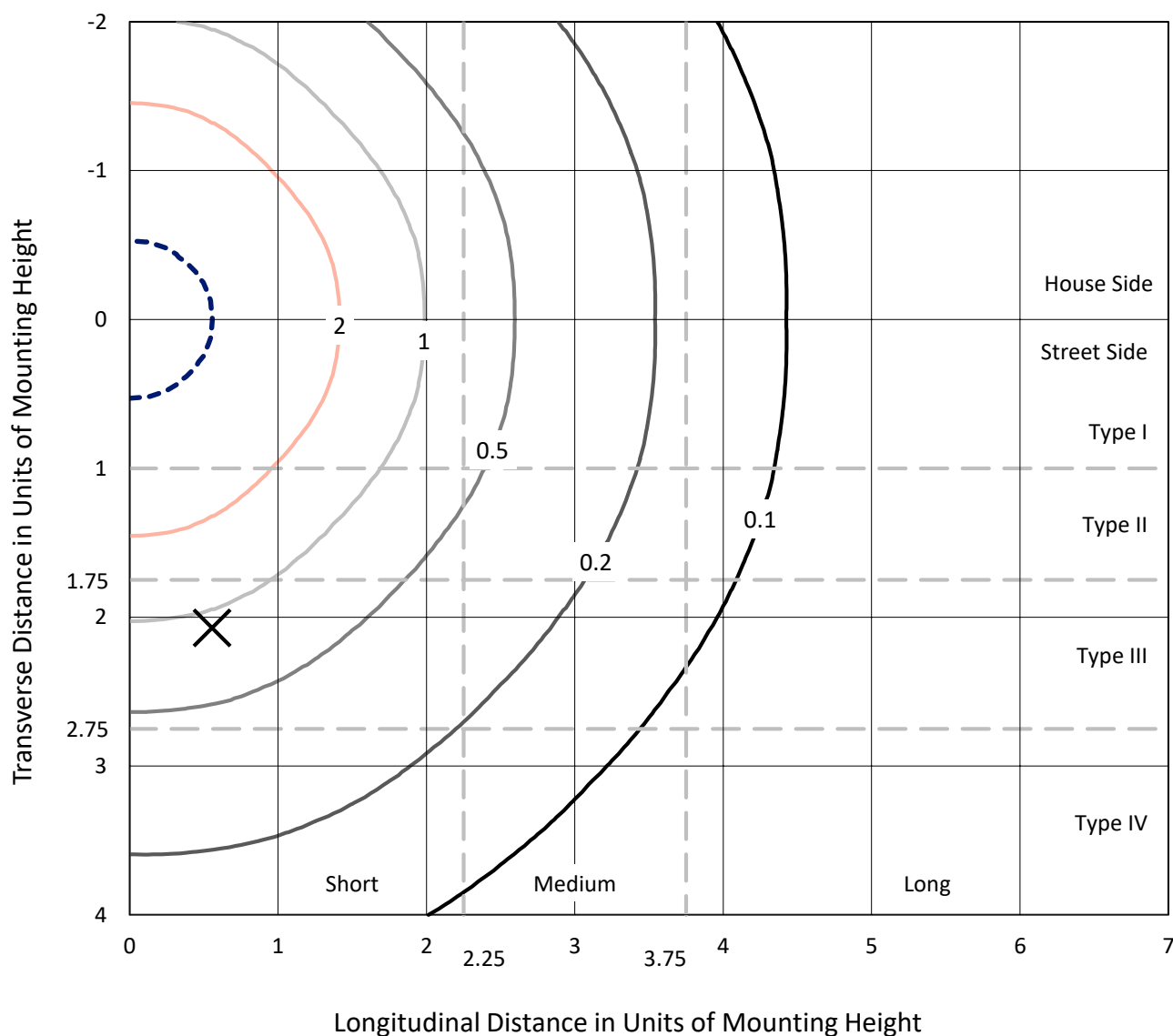
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

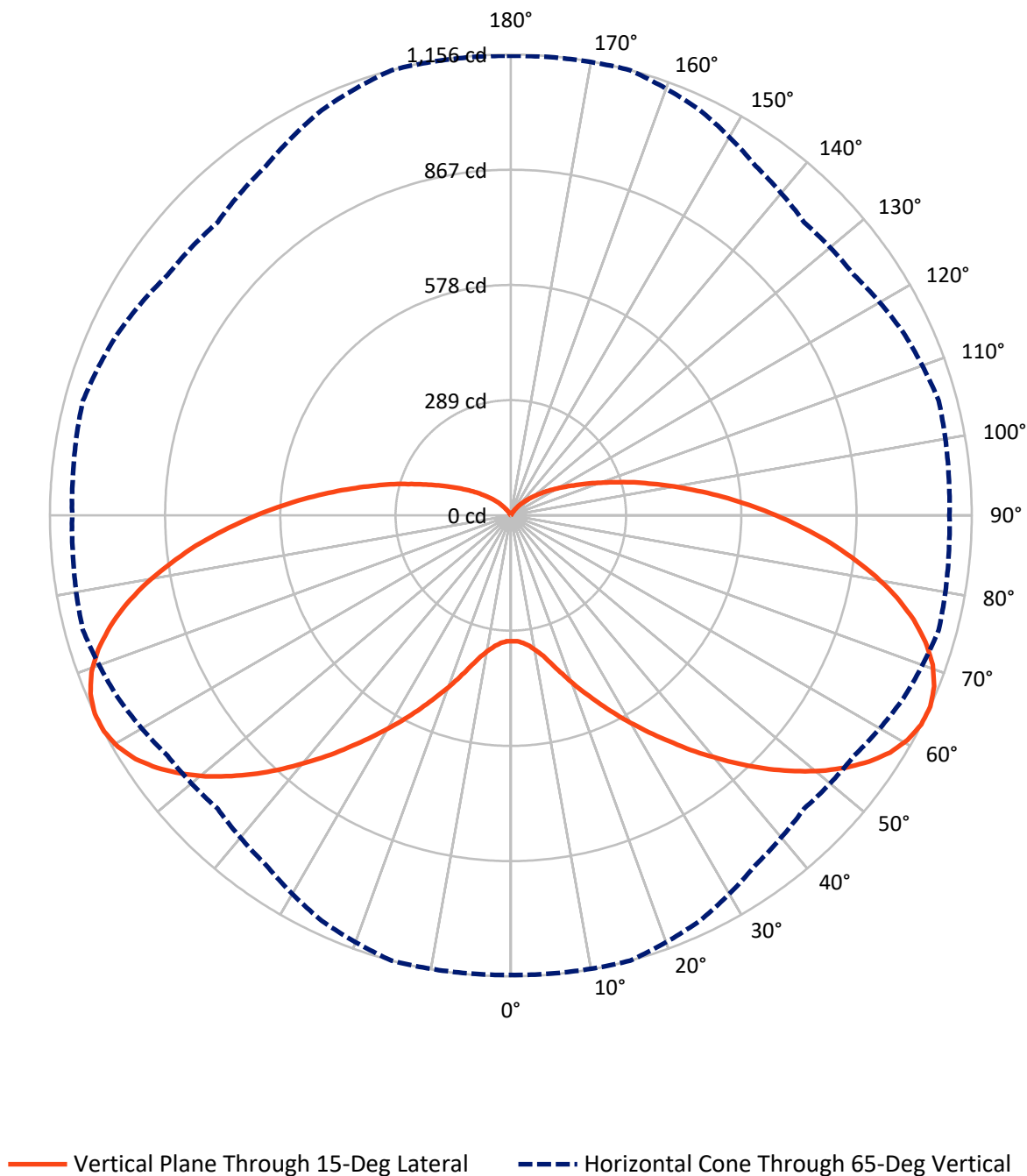


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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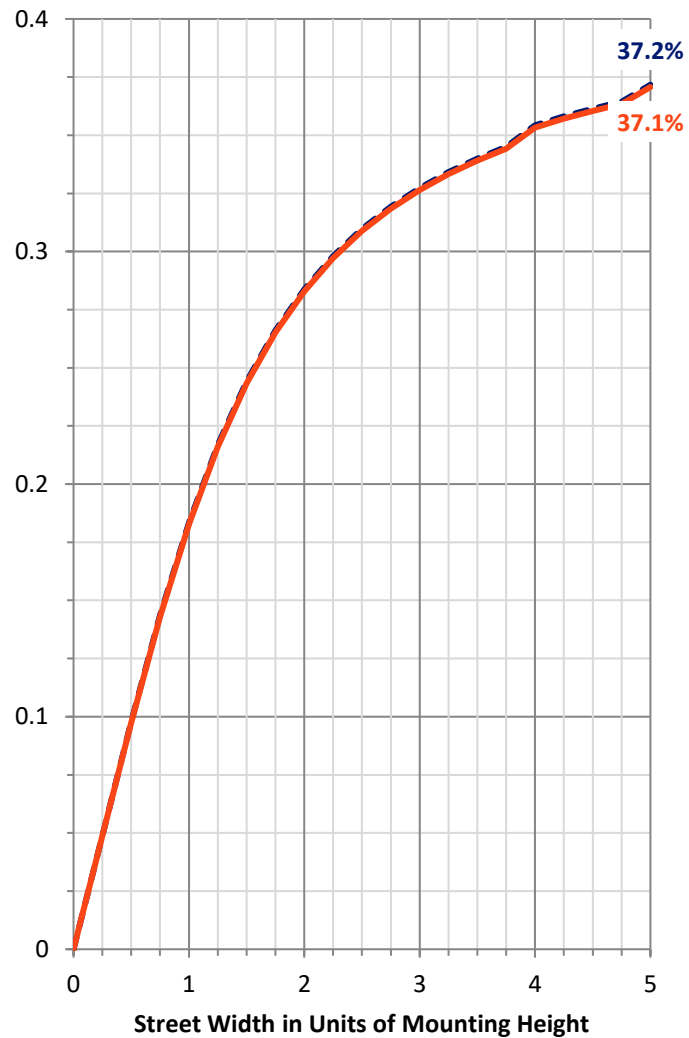
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2705.0	619.1	3324.1
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2705.0	619.1	3324.1
	% Fixture	40.7	9.3	50.0
Total	Lumens	5409.9	1238.2	6648.1
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	0.5
10°-20°	111.2	1.7
20°-30°	243.2	3.7
30°-40°	438.1	6.6
40°-50°	685.3	10.3
50°-60°	933.4	14.0
60°-70°	1083.2	16.3
70°-80°	1046.5	15.7
80°-90°	837.6	12.6
90°-100°	570.6	8.6
100°-110°	344.3	5.2
110°-120°	187.8	2.8
120°-130°	91.0	1.4
130°-140°	35.5	0.5
140°-150°	8.4	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5409.9	81.4
0°-180°	6648.1	100.0

Coefficient of Utilization



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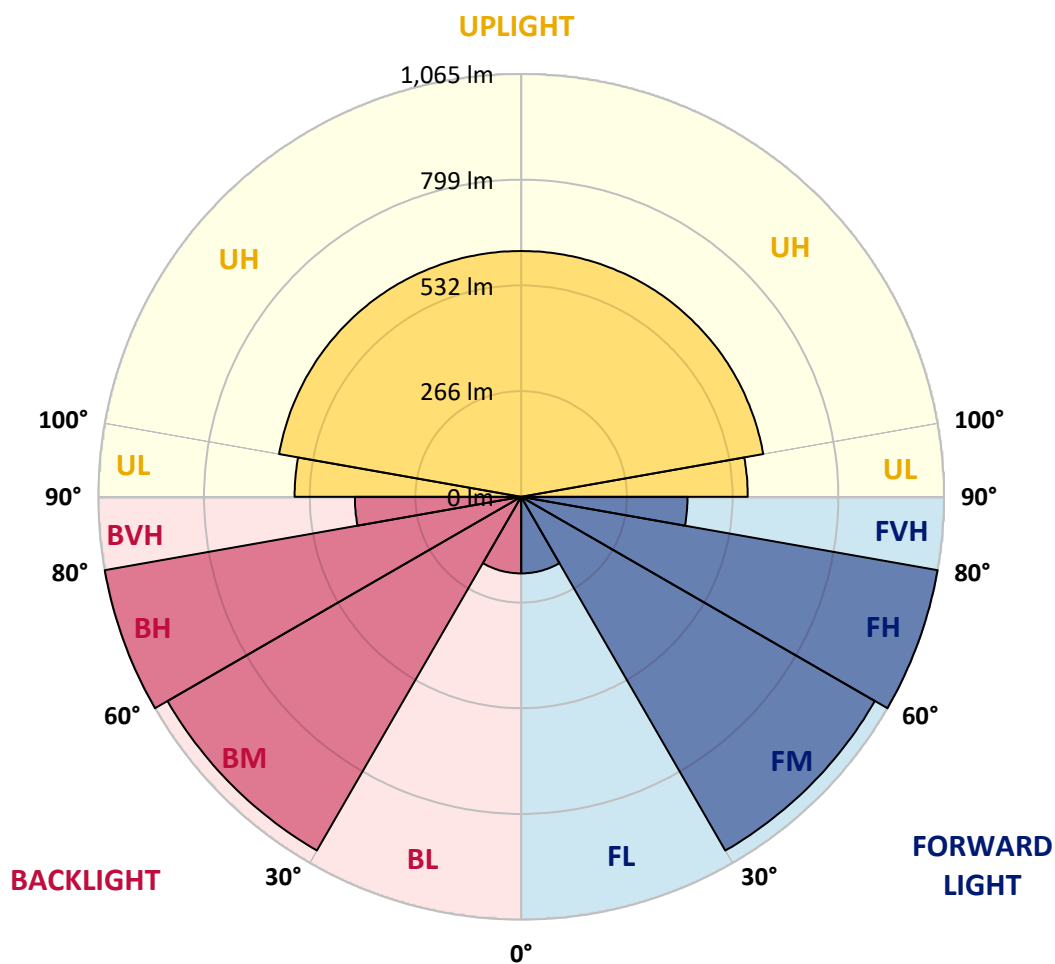
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.9	2.9			
FM	(30°-60°)	1028.4	15.5			
FH	(60°-80°)	1064.9	16.0			G1/1800
FVH	(80°-90°)	418.8	6.3			G3/500
BL	(0°-30°)	192.9	2.9	B1/500		
BM	(30°-60°)	1028.4	15.5	B2/2500		
BH	(60°-80°)	1064.9	16.0	B3/2500		G1/1800
BVH	(80°-90°)	418.8	6.3			G3/500
UL	(90°-100°)	570.6	8.6		U4/1000	
UH	(100°-180°)	619.1	9.3		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3
2.5°	317.0	317.0	316.1	316.1	316.1	316.1	316.1	317.0	316.1	317.0	317.0
5°	321.1	322.0	321.1	321.1	322.0	321.1	321.1	322.0	321.1	321.1	321.1
7.5°	331.1	331.1	330.3	330.3	330.3	329.5	329.5	330.3	329.5	329.5	329.5
10°	344.5	344.5	343.7	343.7	342.8	342.0	342.0	342.0	342.8	342.8	342.8
12.5°	362.0	362.8	361.2	360.4	359.5	358.6	358.6	358.6	358.6	359.5	358.6
15°	388.7	388.7	387.1	383.7	381.2	380.3	378.7	380.3	382.1	382.9	384.5
17.5°	421.3	419.6	417.9	414.6	409.6	404.6	407.0	409.6	412.0	412.9	412.9
20°	454.6	454.6	452.1	447.1	442.9	438.7	439.6	441.3	442.9	444.6	443.8
22.5°	488.8	490.5	487.1	483.8	480.5	479.7	475.5	475.5	476.3	477.9	477.9
25°	529.7	528.0	525.5	522.2	521.3	521.3	515.5	512.2	513.0	513.8	513.8
27.5°	571.4	569.7	566.4	563.0	563.9	562.2	558.0	552.2	549.7	552.2	550.6
30°	613.1	612.2	609.0	606.4	608.0	606.4	601.4	592.2	590.5	591.4	592.2
32.5°	657.3	658.2	654.0	653.2	654.0	649.8	645.6	638.9	633.1	635.6	635.6
35°	706.6	706.6	700.7	701.5	699.0	694.8	689.9	684.9	679.0	681.5	679.9
37.5°	756.6	755.8	751.6	750.7	745.7	737.3	734.9	732.3	725.7	727.3	728.2
40°	810.0	807.4	801.6	800.8	790.7	781.5	779.9	779.9	772.4	776.6	777.4
42.5°	861.6	860.0	855.0	850.8	835.8	824.9	822.5	828.3	823.3	825.8	825.8
45°	913.4	909.2	907.6	900.0	880.0	865.8	866.6	874.2	875.0	875.0	873.3
47.5°	962.6	961.8	958.4	944.3	921.7	905.8	907.6	919.2	923.4	922.6	923.4
50°	1011.0	1008.4	1007.6	989.3	959.2	940.9	945.1	960.0	969.2	966.8	967.6
52.5°	1056.8	1052.7	1051.0	1029.3	994.3	973.4	977.6	999.3	1010.2	1009.3	1009.3
55°	1092.7	1091.1	1090.3	1063.6	1023.5	1001.0	1006.8	1031.0	1047.7	1044.3	1043.5
57.5°	1122.8	1121.1	1121.9	1091.1	1046.9	1021.0	1028.5	1058.5	1077.7	1072.7	1072.7
60°	1144.5	1142.7	1143.6	1111.0	1063.6	1035.1	1044.3	1076.0	1098.5	1092.7	1091.9
62.5°	1154.4	1153.6	1155.3	1121.1	1071.0	1041.9	1051.8	1086.1	1110.2	1102.7	1101.1
65°	1152.8	1153.6	1156.1	1121.9	1070.2	1040.1	1051.0	1086.1	1111.0	1102.7	1100.2
67.5°	1139.5	1141.9	1145.3	1111.9	1060.2	1031.0	1041.0	1076.0	1101.1	1091.9	1087.7
70°	1114.4	1116.9	1122.8	1091.1	1041.9	1012.6	1021.8	1056.0	1078.5	1067.7	1062.6
72.5°	1075.2	1081.1	1087.7	1060.2	1013.4	985.9	995.1	1026.8	1047.7	1033.5	1027.7
75°	1026.0	1034.3	1043.5	1020.2	976.8	951.8	961.0	989.3	1003.4	990.1	979.3
77.5°	970.9	979.3	990.1	970.9	932.5	910.8	916.7	940.1	952.6	935.9	927.5
80°	904.2	913.4	928.4	915.8	885.1	863.4	870.0	886.7	892.5	875.0	864.2
82.5°	838.3	846.7	860.8	855.8	829.9	812.4	815.8	828.3	830.8	810.0	800.8
85°	767.4	774.9	793.3	792.4	773.2	759.0	761.6	769.1	763.2	740.7	730.7
87.5°	696.5	700.7	721.5	724.9	714.8	704.8	704.0	704.0	695.7	673.1	665.6
90°	627.3	631.5	651.4	662.3	656.4	648.1	646.4	643.1	626.5	605.6	600.6
92.5°	560.6	562.2	584.7	599.8	598.1	592.2	589.7	583.1	563.9	539.7	536.3
95°	498.0	499.6	521.3	538.0	542.2	540.5	535.5	526.3	501.3	477.1	476.3
97.5°	440.4	439.6	460.4	481.3	489.7	489.7	482.1	469.6	445.4	421.3	420.4
100°	387.9	386.2	405.4	430.5	439.6	441.3	434.5	417.9	390.4	371.2	372.0
102.5°	340.3	338.7	355.4	379.5	392.9	396.2	388.7	368.7	342.8	325.3	326.1
105°	298.6	297.0	311.2	334.5	349.5	352.8	344.5	325.3	297.0	284.5	286.1
107.5°	259.4	258.6	268.6	292.0	308.6	313.6	305.2	284.5	257.8	248.6	249.4
110°	228.5	227.7	232.7	254.4	272.7	277.7	267.7	246.0	223.5	217.7	218.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	201.0	198.6	201.8	221.1	237.7	243.6	233.5	211.0	193.5	191.0	191.8
115°	175.1	175.1	174.3	189.3	206.8	211.9	201.8	181.9	167.7	166.8	166.8
117.5°	154.4	152.6	151.8	161.0	176.9	182.7	173.5	155.2	146.0	146.8	147.6
120°	134.3	134.3	131.8	136.0	150.2	154.4	146.8	132.7	126.7	128.5	129.3
122.5°	117.6	116.8	114.3	115.1	125.1	130.1	122.7	111.8	110.1	113.4	113.4
125°	101.8	101.0	98.4	96.8	101.8	106.0	101.0	94.2	95.1	98.4	99.2
127.5°	87.6	86.7	83.4	80.1	82.6	85.1	81.7	78.4	82.6	85.1	85.9
130°	75.1	74.3	70.9	65.9	65.1	66.7	64.2	65.1	70.1	74.3	74.3
132.5°	63.4	63.4	59.2	53.4	50.0	50.0	50.0	53.4	59.2	62.6	63.4
135°	52.6	52.6	49.2	42.6	36.7	35.9	36.7	42.6	49.2	51.8	52.6
137.5°	43.4	42.6	39.2	33.3	25.9	24.1	25.9	32.5	39.2	42.6	42.6
140°	34.2	33.3	30.1	25.1	18.3	15.0	18.3	24.1	30.1	33.3	33.3
142.5°	25.1	25.1	21.7	17.5	11.7	9.2	11.7	17.5	22.5	24.1	25.1
145°	17.5	17.5	15.0	10.8	6.6	5.0	6.6	11.7	15.0	17.5	17.5
147.5°	11.7	11.7	10.0	6.6	4.2	2.5	4.2	7.5	10.0	11.7	11.7
150°	6.6	6.6	5.8	4.2	1.6	0.8	1.6	4.2	5.8	6.6	6.6
152.5°	3.4	3.4	2.5	1.6	0.8	0.8	0.8	1.6	3.4	3.4	4.2
155°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.8	1.6	1.6	1.6
157.5°	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)