

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: P266497

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266497
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-AF24-90-D-U-5WQ-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 6681.9 lumens
Efficiency: N/A
Efficacy: 71.1 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): 94
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

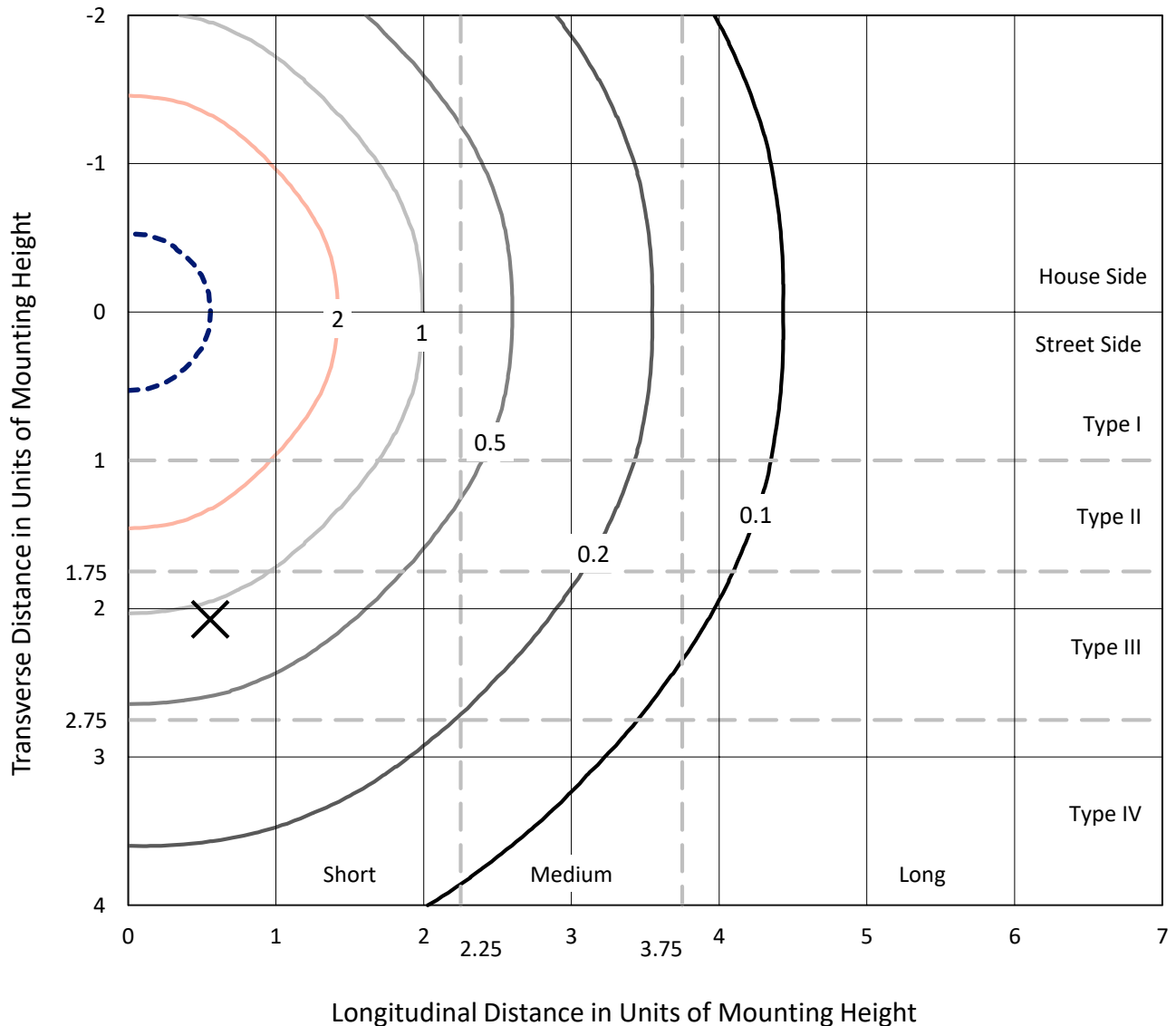


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

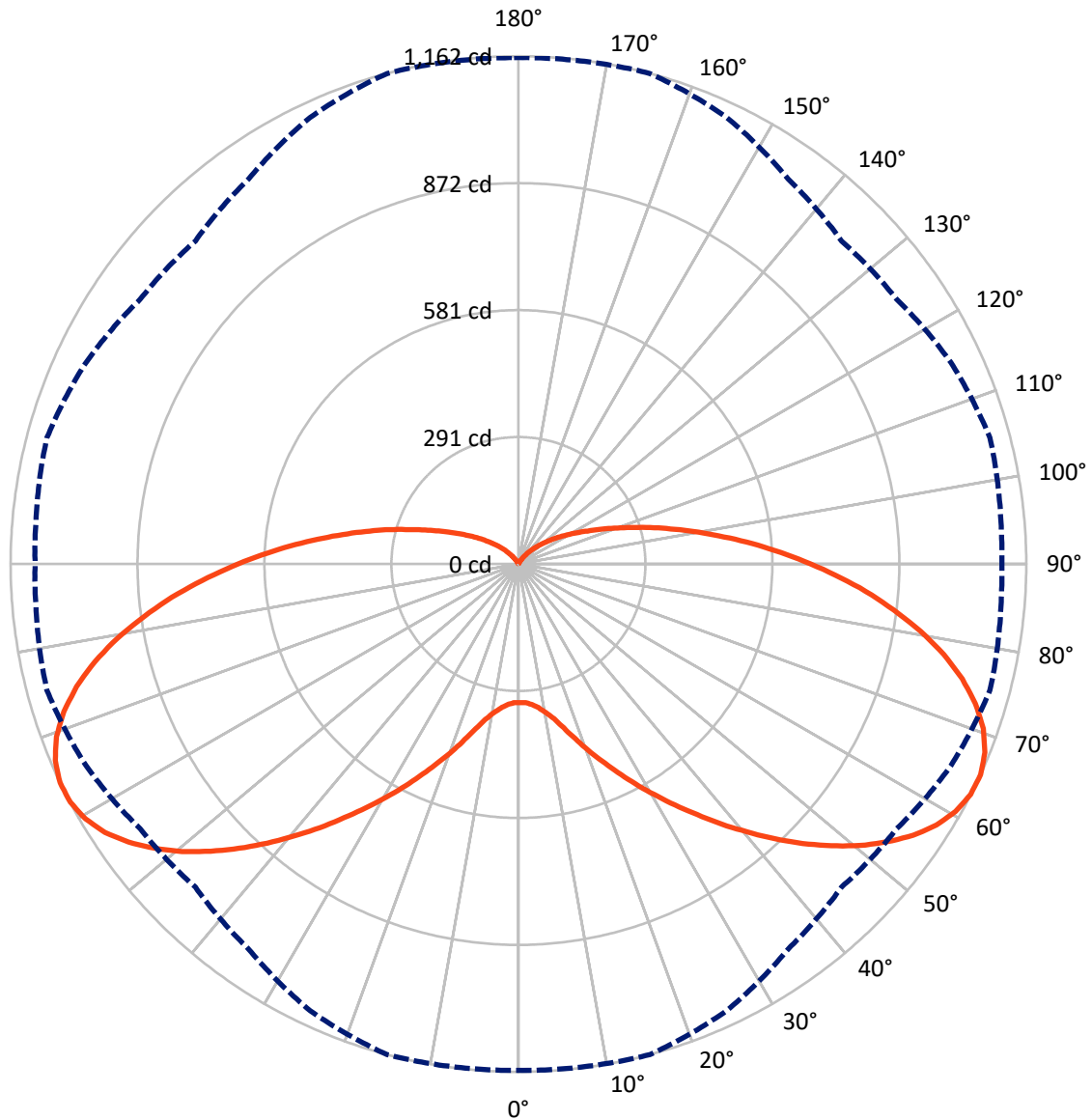


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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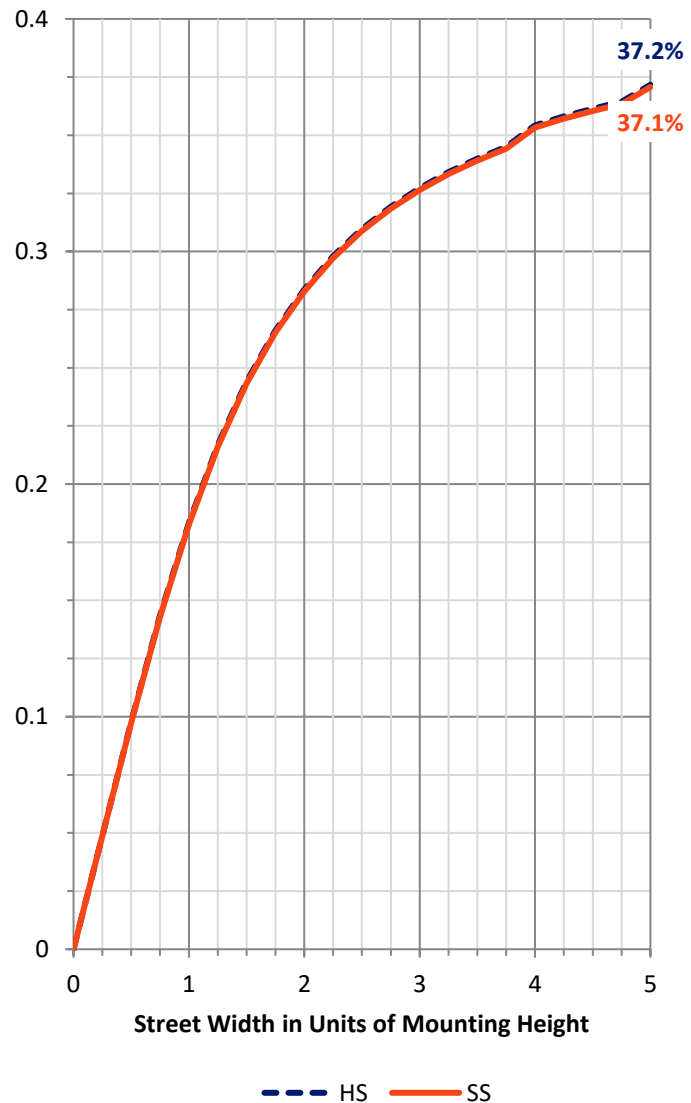
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2718.7	622.3	3341.0
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2718.7	622.3	3341.0
	% Fixture	40.7	9.3	50.0
Total	Lumens	5437.4	1244.5	6681.9
	% Fixture	81.4	18.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	0.5
10°-20°	111.8	1.7
20°-30°	244.4	3.7
30°-40°	440.3	6.6
40°-50°	688.8	10.3
50°-60°	938.2	14.0
60°-70°	1088.7	16.3
70°-80°	1051.8	15.7
80°-90°	841.8	12.6
90°-100°	573.5	8.6
100°-110°	346.0	5.2
110°-120°	188.8	2.8
120°-130°	91.5	1.4
130°-140°	35.6	0.5
140°-150°	8.5	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5437.4	81.4
0°-180°	6681.9	100.0



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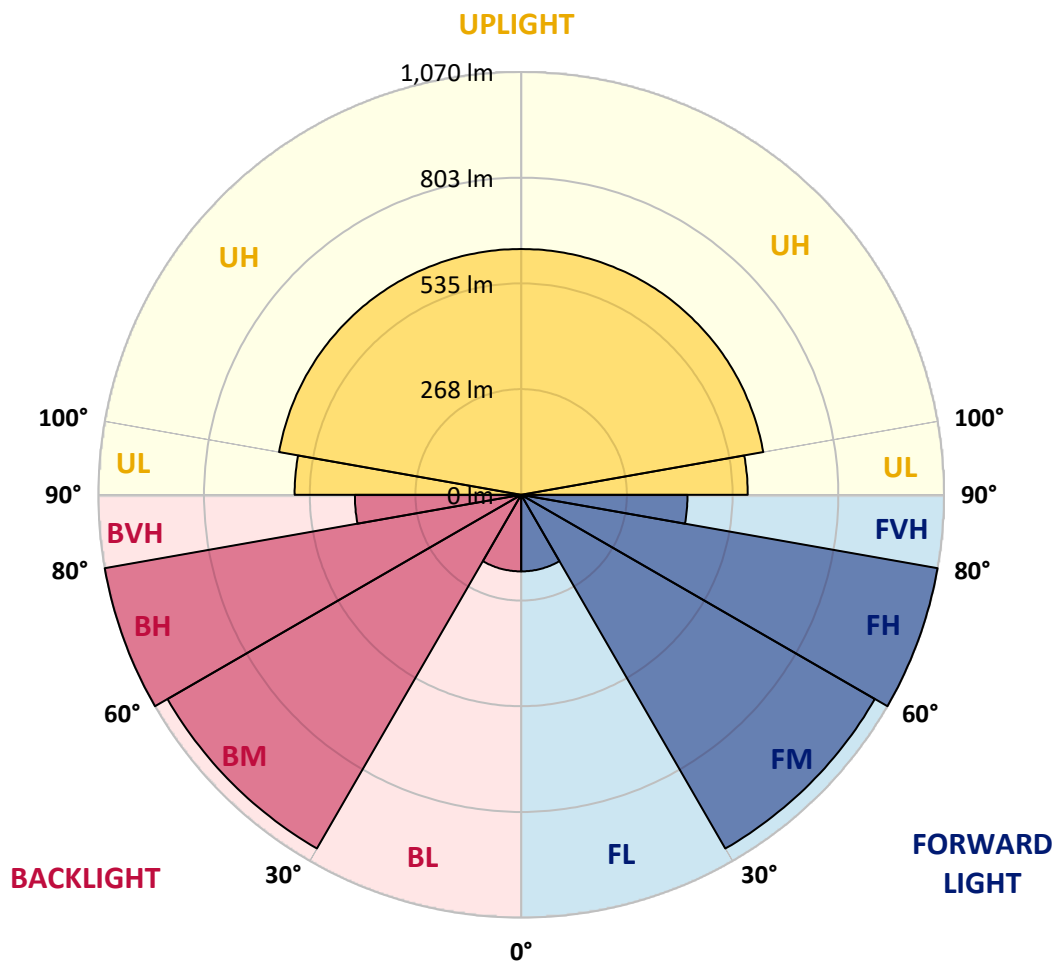
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.9	2.9			
FM (30°-60°)	1033.7	15.5			
FH (60°-80°)	1070.3	16.0			G1/1800
FVH (80°-90°)	420.9	6.3			G3/500
BL (0°-30°)	193.9	2.9	B1/500		
BM (30°-60°)	1033.7	15.5	B2/2500		
BH (60°-80°)	1070.3	16.0	B3/2500		G1/1800
BVH (80°-90°)	420.9	6.3			G3/500
UL (90°-100°)	573.5	8.6		U4/1000	
UH (100°-180°)	622.3	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°	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9
2.5°	318.5	318.5	317.7	317.7	317.7	317.7	317.7	318.5	317.7	318.5	318.5
5°	322.9	323.6	322.9	322.9	323.6	322.9	322.9	323.6	322.9	322.9	322.9
7.5°	332.8	332.8	332.1	332.1	332.1	331.1	331.1	332.1	331.1	331.1	331.1
10°	346.2	346.2	345.4	345.4	344.6	343.7	343.7	343.7	344.6	344.6	344.6
12.5°	363.9	364.7	363.1	362.1	361.4	360.5	360.5	360.5	360.5	361.4	360.5
15°	390.8	390.8	389.0	385.6	383.1	382.3	380.6	382.3	383.9	384.8	386.5
17.5°	423.5	421.8	420.0	416.6	411.7	406.7	409.1	411.7	414.2	414.9	414.9
20°	456.9	456.9	454.5	449.3	445.2	441.0	441.8	443.6	445.2	446.8	446.0
22.5°	491.4	493.0	489.5	486.3	482.8	482.1	477.9	477.9	478.6	480.5	480.5
25°	532.3	530.7	528.2	524.8	524.0	524.0	518.1	514.8	515.5	516.4	516.4
27.5°	574.2	572.6	569.3	565.9	566.7	565.0	560.9	555.1	552.5	555.1	553.4
30°	616.1	615.3	612.0	609.5	611.1	609.5	604.5	595.2	593.6	594.4	595.2
32.5°	660.7	661.5	657.3	656.4	657.3	653.1	648.8	642.2	636.3	638.9	638.9
35°	710.1	710.1	704.2	705.1	702.6	698.3	693.3	688.3	682.4	685.0	683.3
37.5°	760.3	759.5	755.4	754.5	749.5	741.1	738.5	736.2	729.3	731.1	731.8
40°	814.0	811.6	805.7	804.8	794.8	785.6	784.0	784.0	776.3	780.4	781.3
42.5°	866.1	864.3	859.3	855.1	840.0	829.1	826.6	832.5	827.5	829.9	829.9
45°	918.0	913.8	912.1	904.7	884.6	870.2	871.0	878.6	879.4	879.4	877.7
47.5°	967.5	966.7	963.3	949.0	926.4	910.4	912.1	923.8	928.0	927.2	928.0
50°	1016.2	1013.6	1012.7	994.3	964.2	945.6	949.9	965.0	974.2	971.6	972.5
52.5°	1062.2	1058.1	1056.3	1034.6	999.4	978.3	982.6	1004.3	1015.3	1014.5	1014.5
55°	1098.3	1096.7	1095.8	1069.0	1028.6	1006.0	1011.9	1036.3	1053.1	1049.6	1048.9
57.5°	1128.5	1126.7	1127.6	1096.7	1052.2	1026.1	1033.7	1064.0	1083.1	1078.1	1078.1
60°	1150.2	1148.6	1149.4	1116.8	1069.0	1040.3	1049.6	1081.5	1104.1	1098.3	1097.4
62.5°	1160.3	1159.4	1161.1	1126.7	1076.4	1047.2	1057.1	1091.6	1115.9	1108.2	1106.6
65°	1158.6	1159.4	1162.0	1127.6	1075.6	1045.4	1056.3	1091.6	1116.8	1108.2	1105.9
67.5°	1145.2	1147.8	1151.1	1117.5	1065.6	1036.3	1046.3	1081.5	1106.6	1097.4	1093.2
70°	1120.0	1122.6	1128.5	1096.7	1047.2	1017.8	1027.0	1061.3	1084.1	1073.1	1068.1
72.5°	1080.7	1086.5	1093.2	1065.6	1018.6	991.0	1000.2	1032.1	1053.1	1038.7	1033.0
75°	1031.3	1039.6	1048.9	1025.3	981.8	956.5	965.8	994.3	1008.5	995.1	984.3
77.5°	975.9	984.3	995.1	975.9	937.3	915.6	921.4	944.8	957.5	940.6	932.4
80°	908.7	918.0	933.1	920.6	889.5	867.8	874.4	891.2	897.0	879.4	868.5
82.5°	842.6	851.0	865.2	860.1	834.2	816.6	820.0	832.5	835.1	814.0	804.8
85°	771.4	778.8	797.2	796.4	777.2	762.9	765.4	773.0	767.2	744.4	734.5
87.5°	700.0	704.2	725.2	728.5	718.5	708.5	707.5	707.5	699.2	676.6	669.0
90°	630.4	634.7	654.8	665.6	659.7	651.5	649.7	646.4	629.6	608.6	603.7
92.5°	563.3	565.0	587.8	602.9	601.1	595.2	592.7	586.1	566.7	542.4	539.1
95°	500.5	502.2	524.0	540.8	544.9	543.3	538.3	529.0	503.9	479.5	478.6
97.5°	442.7	441.8	462.7	483.7	492.1	492.1	484.5	472.0	447.6	423.5	422.6
100°	389.9	388.2	407.4	432.7	441.8	443.6	436.8	420.0	392.4	373.1	374.0
102.5°	342.1	340.4	357.2	381.5	394.9	398.2	390.8	370.6	344.6	327.0	327.8
105°	300.2	298.4	312.7	336.1	351.2	354.7	346.2	327.0	298.4	285.9	287.5
107.5°	260.8	259.9	269.9	293.4	310.2	315.2	306.9	285.9	259.0	249.8	250.6
110°	229.6	228.9	233.9	255.7	274.2	279.2	269.1	247.4	224.7	218.7	219.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	202.1	199.6	202.8	222.2	238.9	244.8	234.7	212.1	194.6	192.0	192.9
115°	176.1	176.1	175.2	190.4	207.9	213.0	202.8	182.7	168.5	167.7	167.7
117.5°	155.0	153.4	152.6	161.9	177.8	183.7	174.5	155.9	146.8	147.5	148.4
120°	134.9	134.9	132.5	136.6	150.9	155.0	147.5	133.3	127.4	129.0	130.0
122.5°	118.1	117.4	114.9	115.7	125.8	130.9	123.2	112.4	110.8	114.1	114.1
125°	102.2	101.5	99.0	97.2	102.2	106.4	101.5	94.7	95.6	99.0	99.7
127.5°	88.0	87.1	83.8	80.5	83.1	85.5	82.1	78.8	83.1	85.5	86.3
130°	75.5	74.6	71.2	66.3	65.3	67.1	64.6	65.3	70.4	74.6	74.6
132.5°	63.7	63.7	59.5	53.7	50.3	50.3	50.3	53.7	59.5	62.9	63.7
135°	52.8	52.8	49.4	42.8	36.9	36.0	36.9	42.8	49.4	52.0	52.8
137.5°	43.6	42.8	39.3	33.5	26.1	24.3	26.1	32.7	39.3	42.8	42.8
140°	34.3	33.5	30.3	25.2	18.4	15.1	18.4	24.3	30.3	33.5	33.5
142.5°	25.2	25.2	21.7	17.5	11.8	9.3	11.8	17.5	22.6	24.3	25.2
145°	17.5	17.5	15.1	10.9	6.6	5.0	6.6	11.8	15.1	17.5	17.5
147.5°	11.8	11.8	10.2	6.6	4.2	2.5	4.2	7.5	10.2	11.8	11.8
150°	6.6	6.6	5.8	4.2	1.6	0.9	1.6	4.2	5.8	6.6	6.6
152.5°	3.4	3.4	2.5	1.6	0.9	0.9	0.9	1.6	3.4	3.4	4.2
155°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6	1.6
157.5°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)