

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: P266463

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266463
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-AF24-80-D-U-5WQ-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 6178.5 lumens
Efficiency: N/A
Efficacy: 74.4 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 - U4 - G3

Input Watts (W): 83
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



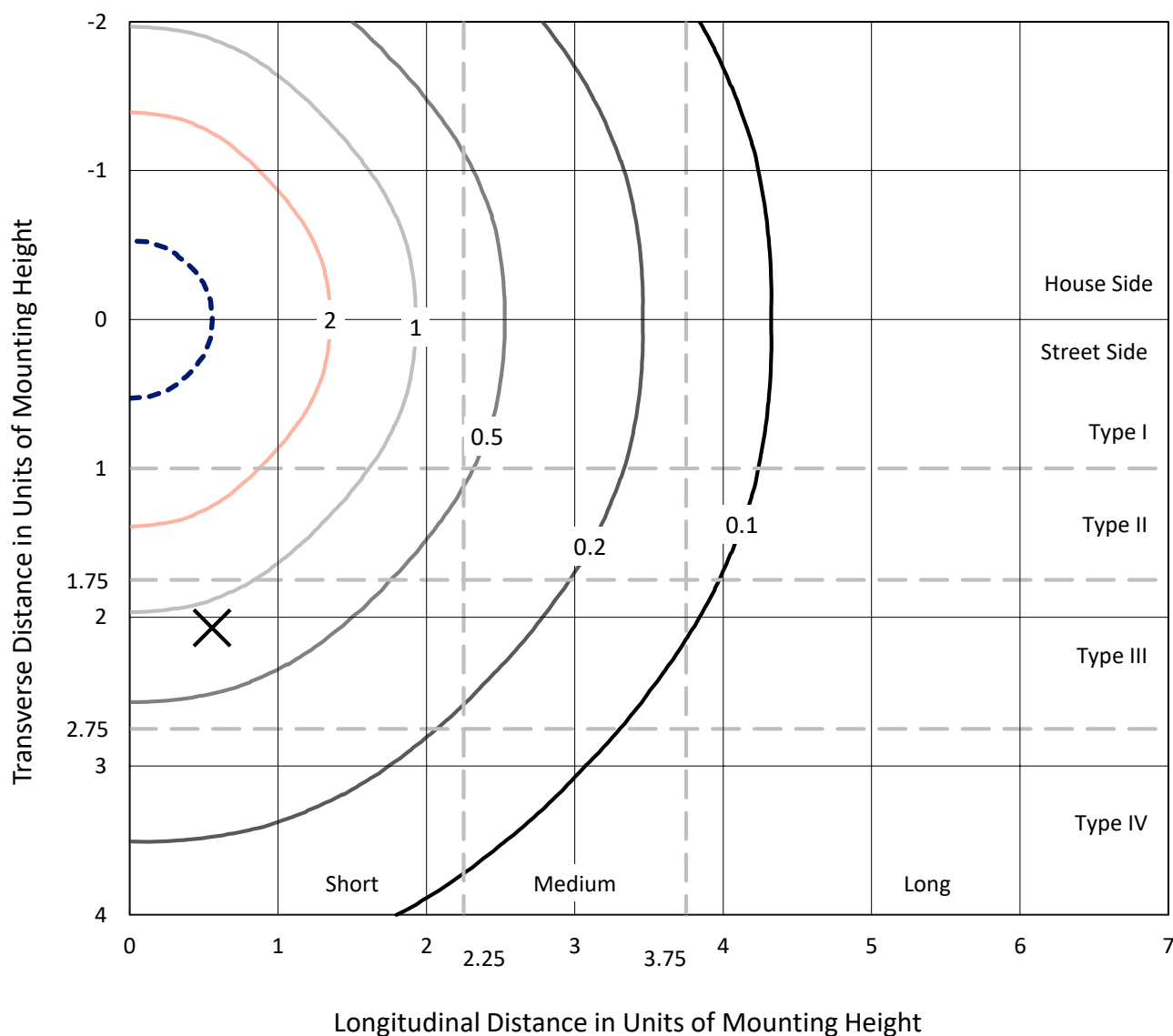
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

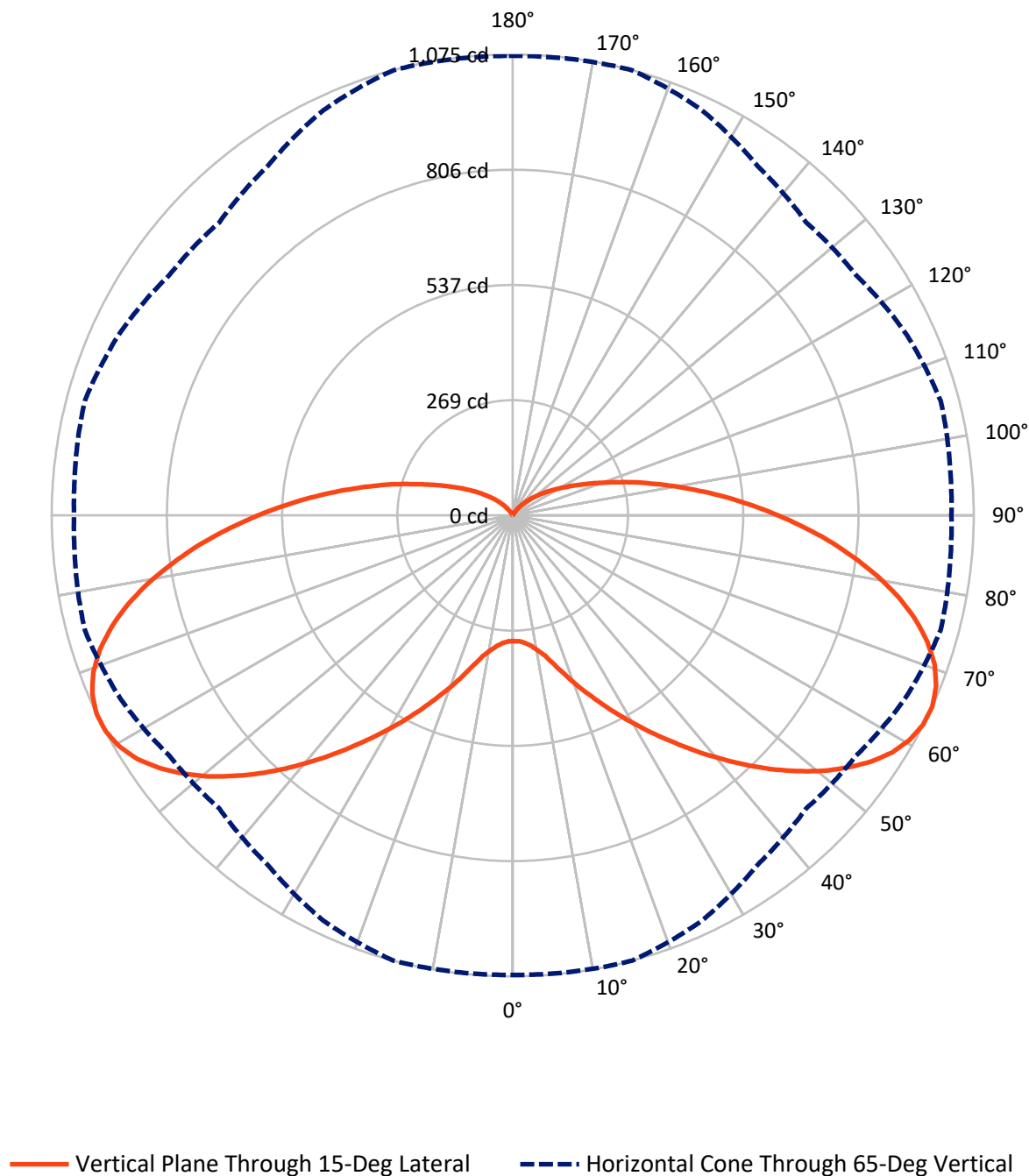


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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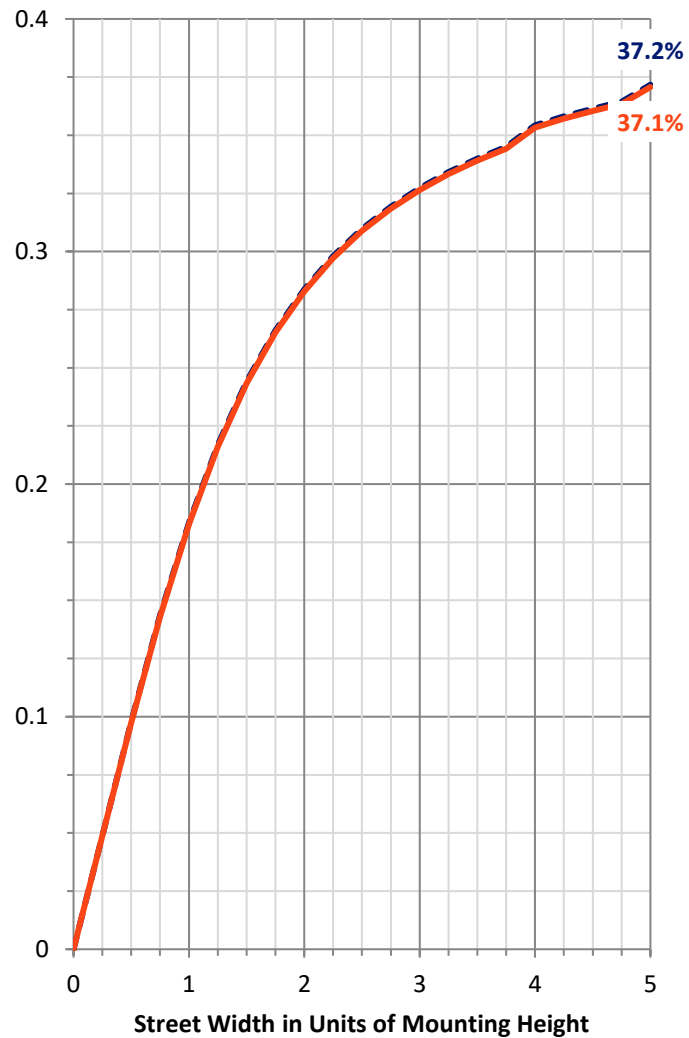
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.9	575.4	3089.2
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2513.9	575.4	3089.2
	% Fixture	40.7	9.3	50.0
Total	Lumens	5027.7	1150.7	6178.5
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	0.5
10°-20°	103.4	1.7
20°-30°	226.0	3.7
30°-40°	407.2	6.6
40°-50°	636.9	10.3
50°-60°	867.5	14.0
60°-70°	1006.7	16.3
70°-80°	972.6	15.7
80°-90°	778.4	12.6
90°-100°	530.2	8.6
100°-110°	319.9	5.2
110°-120°	174.5	2.8
120°-130°	84.6	1.4
130°-140°	32.9	0.5
140°-150°	7.8	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5027.7	81.4
0°-180°	6178.5	100.0

Coefficient of Utilization



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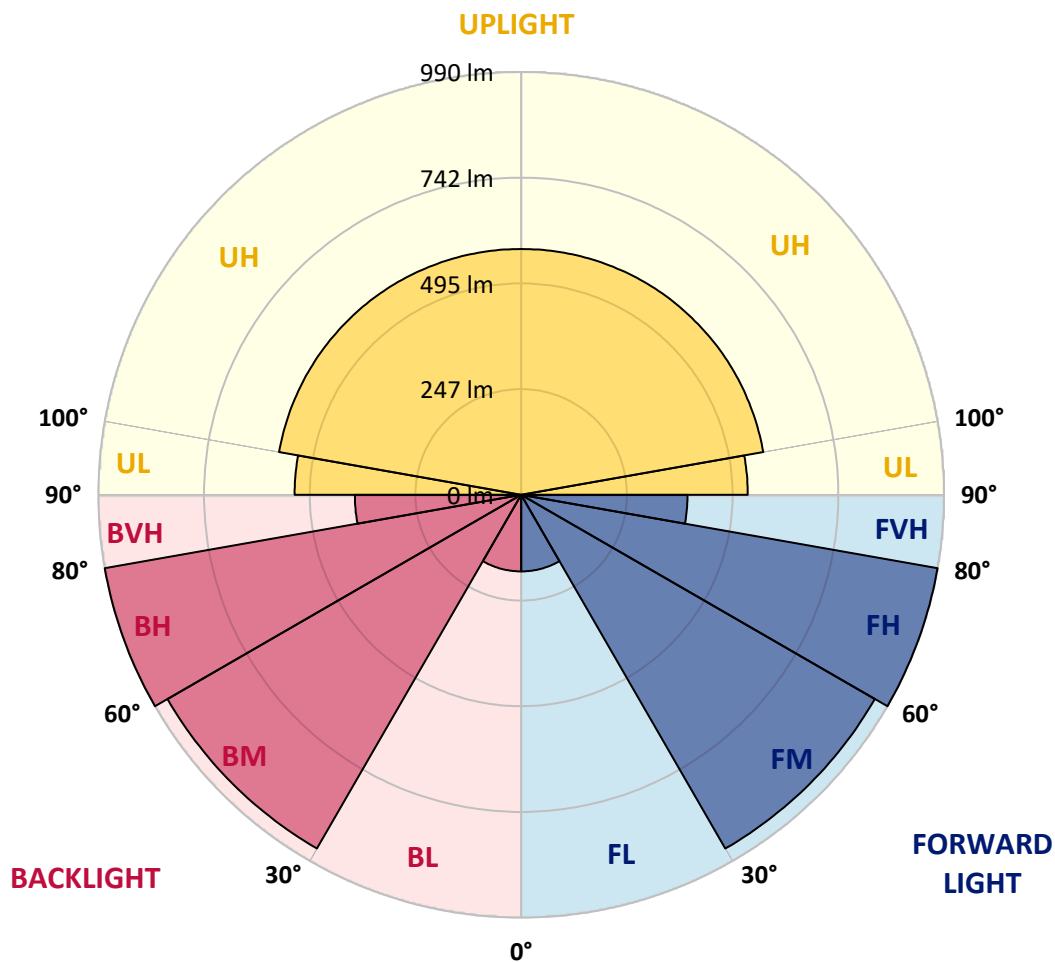
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.2	2.9			
FM	(30°-60°)	955.8	15.5			
FH	(60°-80°)	989.7	16.0			G1/1800
FVH	(80°-90°)	389.2	6.3			G3/500
BL	(0°-30°)	179.2	2.9	B1/500		
BM	(30°-60°)	955.8	15.5	B1/1000		
BH	(60°-80°)	989.7	16.0	B2/1000		G1/1800
BVH	(80°-90°)	389.2	6.3			G3/500
UL	(90°-100°)	530.2	8.6		U4/1000	
UH	(100°-180°)	575.4	9.3		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	294.6	294.6	293.7	293.7	293.7	293.7	293.7	294.6	293.7	294.6	294.6
5°	298.4	299.2	298.4	298.4	299.2	298.4	298.4	299.2	298.4	298.4	298.4
7.5°	307.8	307.8	307.0	307.0	307.0	306.2	306.2	307.0	306.2	306.2	306.2
10°	320.2	320.2	319.3	319.3	318.5	317.8	317.8	317.8	318.5	318.5	318.5
12.5°	336.4	337.3	334.9	334.9	334.1	333.4	333.4	333.4	333.4	334.1	333.4
15°	361.3	361.3	356.5	356.5	354.2	353.6	352.0	353.6	355.0	355.8	357.3
17.5°	391.5	390.0	385.3	385.3	380.6	376.0	378.2	380.6	382.9	383.8	383.8
20°	422.6	422.6	415.5	415.5	411.7	407.7	408.5	410.0	411.7	413.2	412.4
22.5°	454.3	455.8	449.6	449.6	446.5	445.6	441.8	441.8	442.7	444.2	444.2
25°	492.2	490.7	485.3	485.3	484.5	484.5	479.1	476.0	476.7	477.4	477.4
27.5°	531.0	529.5	523.3	523.3	524.0	522.5	518.6	513.2	510.9	513.2	511.7
30°	569.7	568.9	563.5	563.5	565.2	563.5	558.9	550.4	548.9	549.7	550.4
32.5°	610.8	611.7	607.0	607.0	607.8	603.9	600.0	593.8	588.4	590.6	590.6
35°	656.7	656.7	651.9	651.9	649.7	645.7	641.1	636.4	631.0	633.3	631.8
37.5°	703.2	702.4	697.7	697.7	693.0	685.2	682.9	680.6	674.4	676.0	676.8
40°	752.7	750.4	744.2	744.2	735.0	726.4	724.8	724.8	717.8	721.7	722.4
42.5°	800.7	799.2	790.7	790.7	776.8	766.7	764.4	769.8	765.1	767.4	767.4
45°	848.9	844.9	836.4	836.4	817.8	804.6	805.4	812.3	813.1	813.1	811.6
47.5°	894.6	893.9	877.6	877.6	856.7	841.8	843.4	854.3	858.2	857.3	858.2
50°	939.5	937.2	919.3	919.3	891.5	874.4	878.4	892.2	900.8	898.5	899.3
52.5°	982.1	978.3	956.5	956.5	924.0	904.7	908.5	928.7	938.8	938.0	938.0
55°	1015.5	1013.9	988.3	988.3	951.1	930.3	935.7	958.1	973.7	970.6	969.8
57.5°	1043.4	1041.9	1013.9	1013.9	972.9	948.8	955.8	983.7	1001.6	996.8	996.8
60°	1063.6	1062.1	1032.5	1032.5	988.3	962.1	970.6	1000.1	1021.0	1015.5	1014.7
62.5°	1072.8	1072.0	1041.9	1041.9	995.3	968.3	977.5	1009.3	1031.9	1024.7	1023.3
65°	1071.3	1072.0	1042.7	1042.7	994.6	966.7	976.7	1009.3	1032.5	1024.7	1022.5
67.5°	1058.9	1061.3	1033.3	1033.3	985.4	958.1	967.5	1000.1	1023.3	1014.7	1010.9
70°	1035.7	1038.0	1013.9	1013.9	968.3	941.1	949.6	981.4	1002.2	992.3	987.5
72.5°	999.3	1004.7	985.4	985.4	941.9	916.4	924.9	954.3	973.7	960.5	955.1
75°	953.6	961.2	948.2	948.2	907.7	884.6	893.0	919.3	932.6	920.1	910.2
77.5°	902.3	910.2	866.7	866.7	846.6	846.6	852.0	873.6	885.3	869.7	862.1
80°	840.4	848.9	822.5	822.5	802.4	802.4	808.6	824.0	829.5	813.1	803.2
82.5°	779.1	786.8	771.4	771.4	755.0	755.0	758.1	769.8	772.2	752.7	744.2
85°	713.2	720.1	718.6	718.6	705.3	705.3	707.8	714.7	709.3	688.5	679.1
87.5°	647.3	651.2	664.3	664.3	655.0	655.0	654.2	654.2	646.5	625.6	618.7
90°	582.9	586.9	610.0	610.0	602.4	602.4	600.7	597.7	582.2	562.8	558.1
92.5°	520.9	522.5	557.4	557.4	555.8	550.4	548.1	541.9	524.0	501.6	498.5
95°	462.7	464.3	503.9	503.9	503.9	502.3	497.8	489.1	466.0	443.5	442.7
97.5°	409.3	408.5	455.0	455.0	455.0	455.0	448.1	436.4	413.9	391.5	390.8
100°	360.5	359.0	408.5	408.5	408.5	410.0	403.9	388.3	362.7	344.9	345.8
102.5°	316.3	314.8	365.2	365.2	365.2	368.2	361.3	342.7	318.5	302.3	303.1
105°	277.5	276.0	324.7	324.7	324.7	327.9	320.2	302.3	276.0	264.3	265.9
107.5°	241.0	240.2	286.7	286.7	286.7	291.5	283.8	264.3	239.6	231.0	231.9
110°	212.4	211.6	253.5	253.5	253.5	258.2	248.8	228.7	207.8	202.3	203.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	186.8	184.5	187.6	205.4	221.0	226.4	217.1	196.1	179.8	177.5	178.4
115°	162.9	162.9	162.1	176.0	192.2	196.9	187.6	169.1	155.9	155.0	155.0
117.5°	143.4	141.8	141.0	149.6	164.3	169.8	161.2	144.2	135.6	136.5	137.3
120°	124.9	124.9	122.4	126.3	139.5	143.4	136.5	123.2	117.9	119.4	120.2
122.5°	109.4	108.5	106.2	107.0	116.3	120.9	113.9	103.8	102.3	105.5	105.5
125°	94.6	93.9	91.4	89.9	94.6	98.5	93.9	87.7	88.4	91.4	92.3
127.5°	81.3	80.6	77.6	74.4	76.7	79.1	75.9	72.9	76.7	79.1	79.9
130°	69.8	69.0	65.8	61.3	60.5	62.1	59.6	60.5	65.0	69.0	69.0
132.5°	58.8	58.8	55.1	49.5	46.5	46.5	46.5	49.5	55.1	58.1	58.8
135°	48.9	48.9	45.8	39.5	34.1	33.3	34.1	39.5	45.8	48.1	48.9
137.5°	40.3	39.5	36.4	31.0	24.1	22.5	24.1	30.3	36.4	39.5	39.5
140°	31.8	31.0	27.8	23.3	17.1	14.0	17.1	22.5	27.8	31.0	31.0
142.5°	23.3	23.3	20.1	16.3	10.9	8.5	10.9	16.3	20.9	22.5	23.3
145°	16.3	16.3	14.0	10.2	6.2	4.6	6.2	10.9	14.0	16.3	16.3
147.5°	10.9	10.9	9.3	6.2	3.9	2.3	3.9	6.9	9.3	10.9	10.9
150°	6.2	6.2	5.4	3.9	1.5	0.8	1.5	3.9	5.4	6.2	6.2
152.5°	3.1	3.1	2.3	1.5	0.8	0.8	0.8	1.5	3.1	3.1	3.9
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5	1.5
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)