

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: P836317

Luminaire Tested: **ARCH3-170-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15339 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.6
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: 24 FT



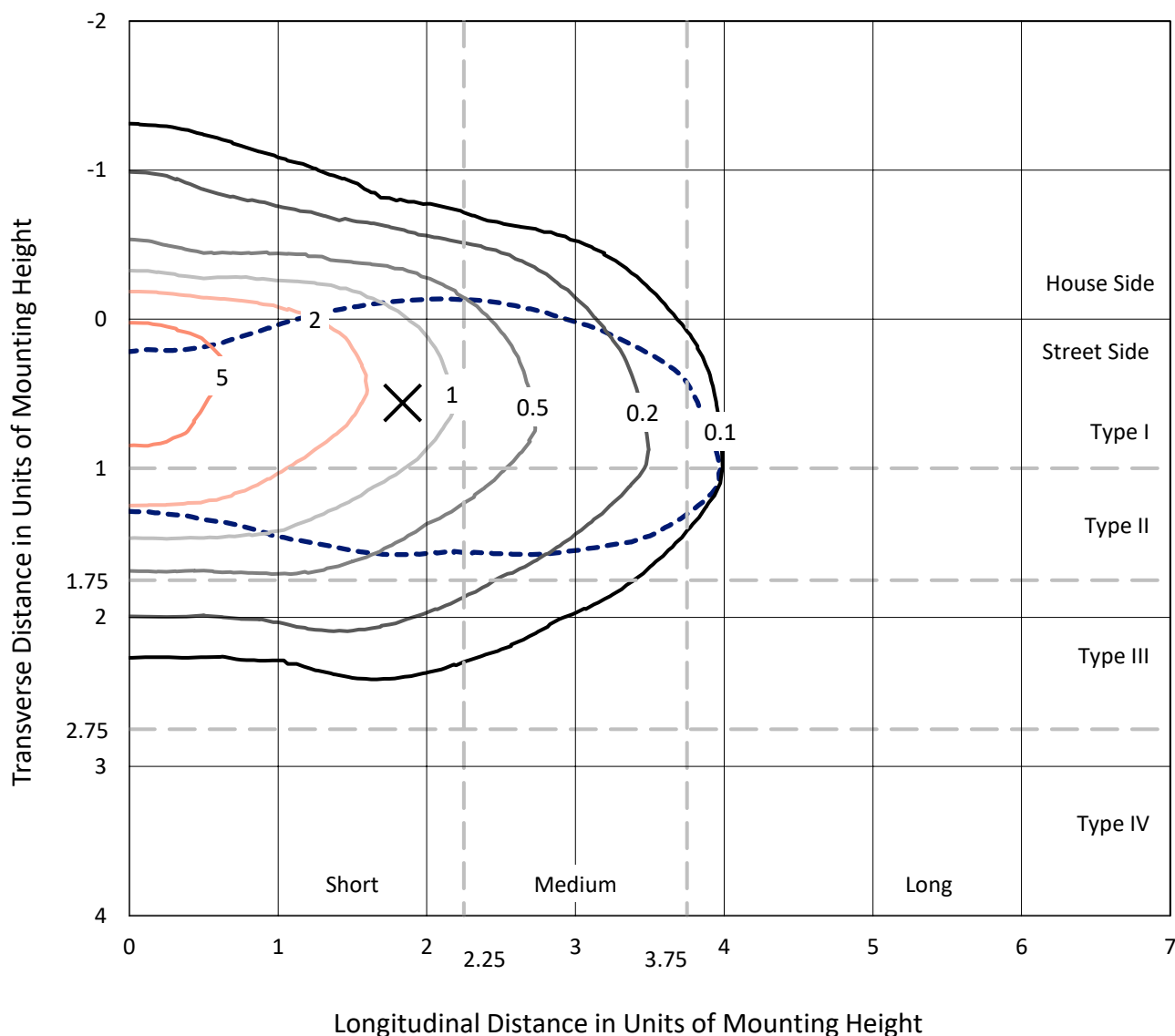
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

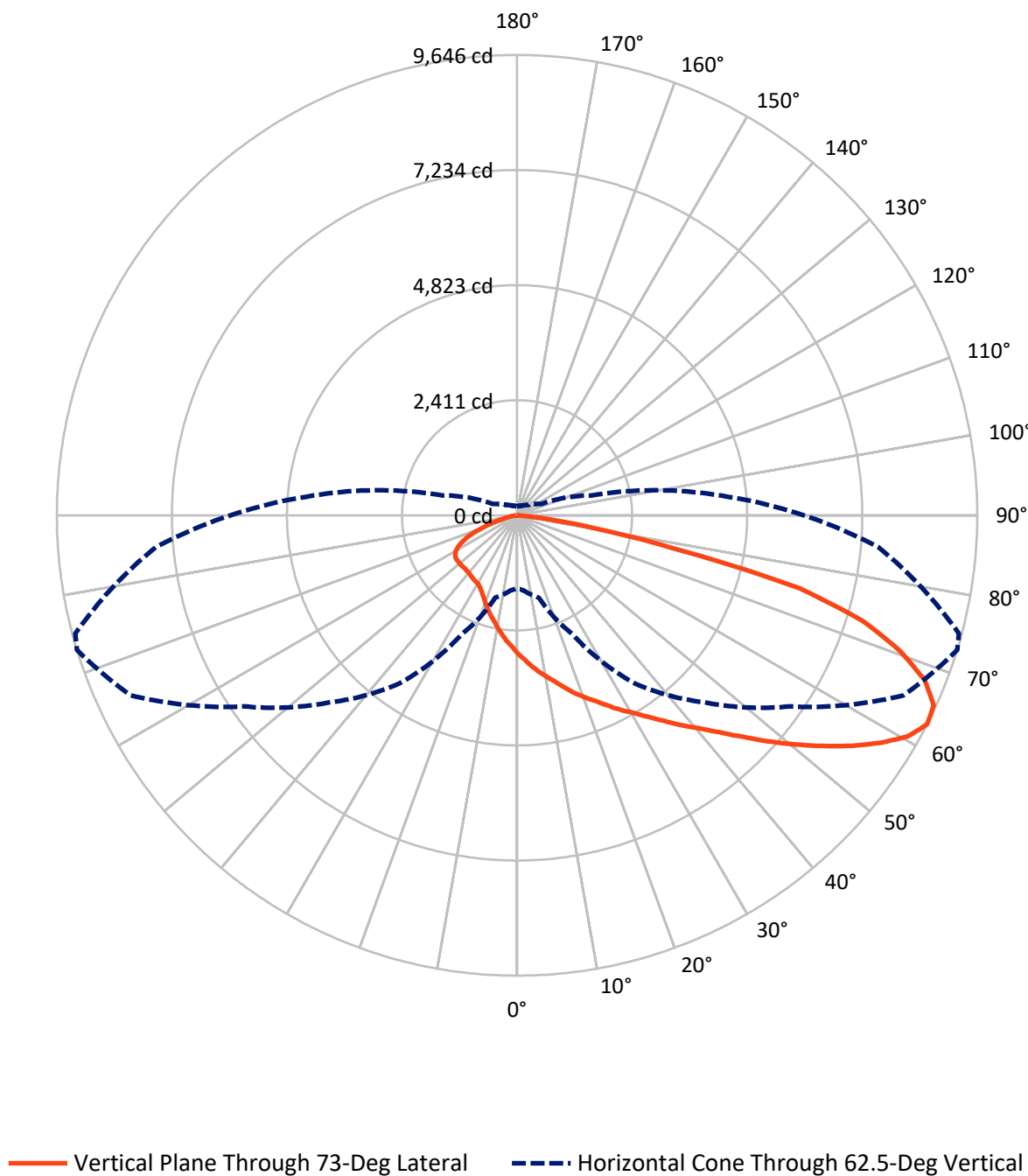


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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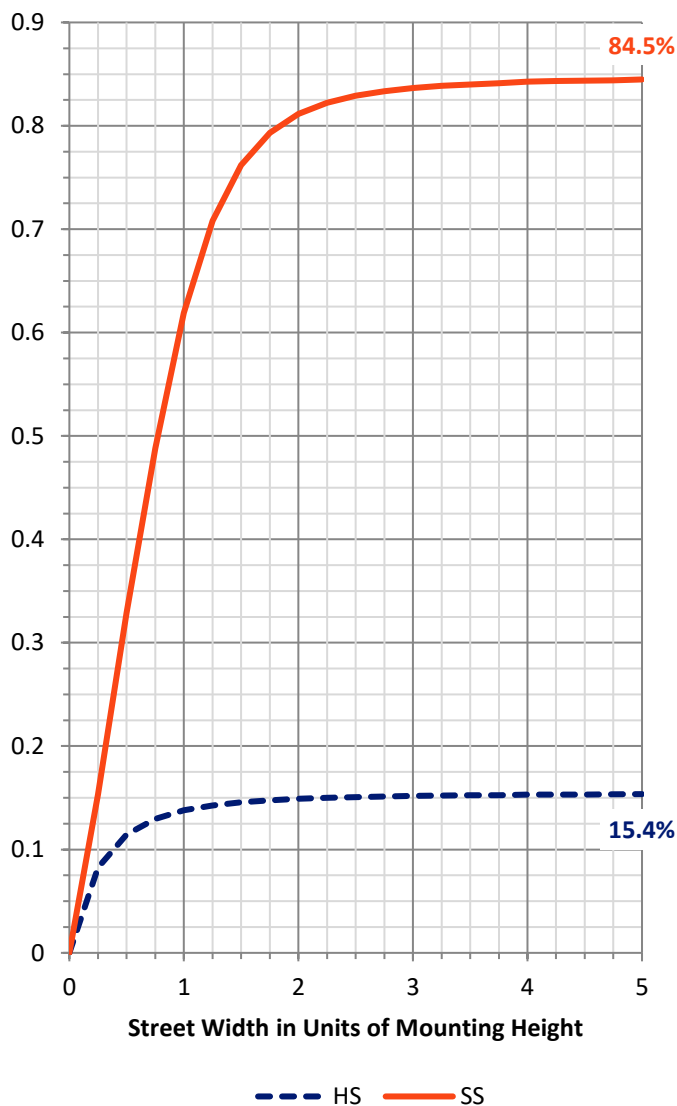
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2377.8	0.0	2377.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12961.2	0.0	12961.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	15339.0	0.0	15339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.8
10°-20°	846.7	5.5
20°-30°	1409.3	9.2
30°-40°	2126.5	13.9
40°-50°	2972.3	19.4
50°-60°	3283.0	21.4
60°-70°	2860.0	18.6
70°-80°	1444.7	9.4
80°-90°	116.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15339.0	100.0
0°-180°	15339.0	100.0

Coefficient of Utilization



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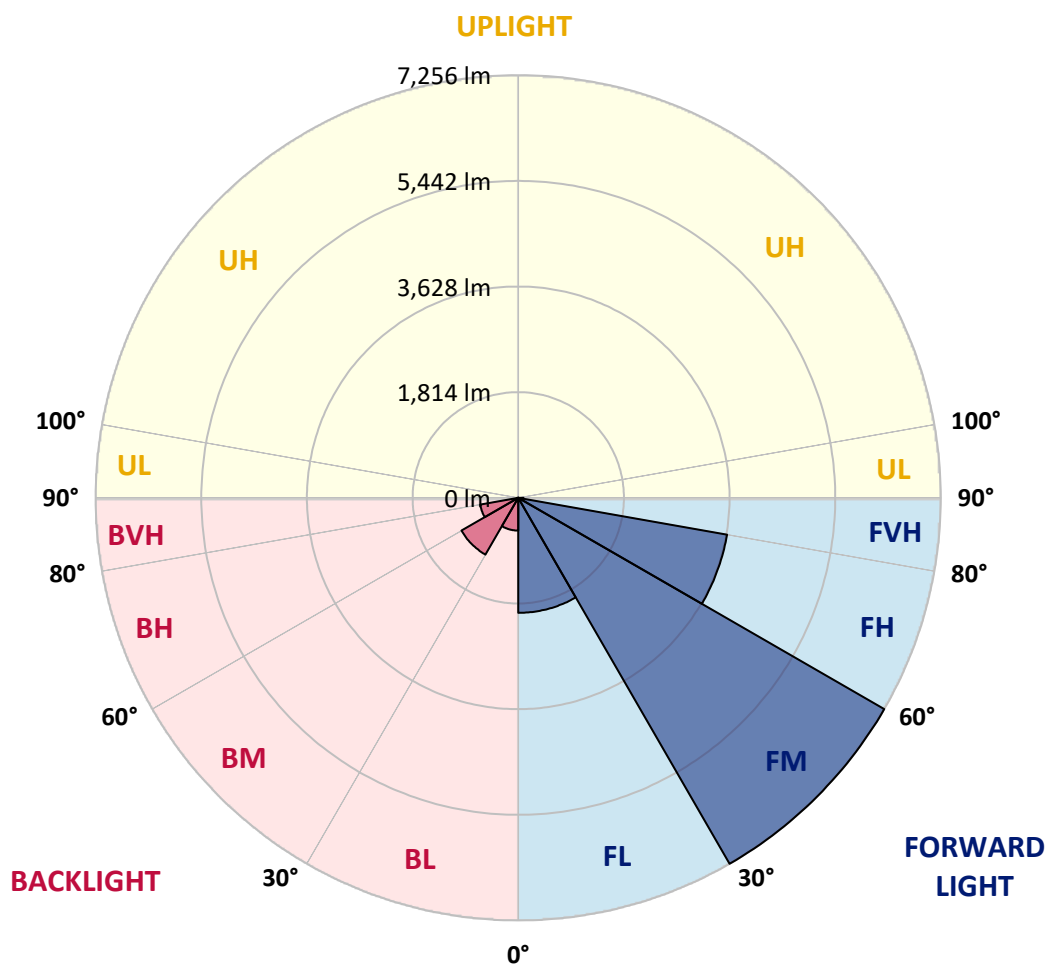
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1974.6	12.9			
FM	(30°-60°)	7255.9	47.3			
FH	(60°-80°)	3641.0	23.7			G2/5000
FVH	(80°-90°)	89.7	0.6			G1/100
BL	(0°-30°)	562.0	3.7	B2/1000		
BM	(30°-60°)	1125.9	7.3	B2/2500		
BH	(60°-80°)	663.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	3305.6	3342.3	3322.3	3335.6	3268.8	3225.3	3175.2	3078.3	3024.8	3018.1	2954.6
5°	3790.2	3830.3	3796.9	3786.8	3669.9	3569.6	3456.0	3285.5	3171.9	3151.8	3011.4
7.5°	4274.8	4311.6	4271.5	4241.4	4084.3	3907.2	3740.1	3489.4	3312.2	3278.8	3058.2
10°	4615.7	4649.2	4619.1	4589.0	4425.2	4244.7	4007.4	3679.9	3439.2	3385.8	3088.3
12.5°	4873.1	4893.1	4879.8	4853.0	4699.3	4505.4	4278.2	3893.8	3583.0	3516.1	3135.1
15°	5083.7	5117.1	5100.4	5080.3	4933.3	4739.4	4522.2	4117.7	3750.1	3666.5	3205.3
17.5°	5224.0	5247.4	5250.8	5250.8	5120.4	4929.9	4719.3	4321.6	3917.2	3810.2	3272.1
20°	5287.5	5314.3	5331.0	5357.7	5250.8	5087.0	4873.1	4495.4	4074.3	3954.0	3335.6
22.5°	5317.6	5341.0	5384.5	5444.6	5357.7	5220.7	5023.5	4655.8	4231.4	4104.4	3409.2
25°	5341.0	5371.1	5434.6	5548.2	5488.1	5371.1	5200.6	4839.7	4418.5	4288.2	3516.1
27.5°	5404.5	5441.3	5501.5	5638.5	5565.0	5508.1	5387.8	5036.9	4615.7	4482.0	3646.5
30°	5625.1	5655.2	5651.9	5738.8	5648.5	5631.8	5548.2	5227.4	4806.2	4672.6	3800.2
32.5°	6026.2	6056.3	5982.7	5949.3	5752.1	5755.5	5722.0	5431.3	5033.5	4896.5	3977.4
35°	6457.4	6490.8	6393.8	6337.0	6006.1	5909.2	5925.9	5685.3	5287.5	5150.5	4197.9
37.5°	6841.7	6881.8	6798.3	6714.7	6380.5	6156.5	6153.2	5969.4	5578.3	5437.9	4441.9
40°	7052.3	7099.1	7149.2	7102.4	6751.5	6504.1	6397.2	6260.2	5865.8	5722.0	4706.0
42.5°	7152.6	7282.9	7373.1	7343.1	7055.6	6805.0	6677.9	6564.3	6216.7	6076.3	5020.2
45°	6871.8	6875.1	7065.7	7229.4	7176.0	7008.8	6985.4	6905.2	6617.8	6484.1	5374.4
47.5°	6520.9	6494.1	6627.8	6918.6	7069.0	7112.4	7249.5	7282.9	7075.7	6942.0	5735.4
50°	5678.6	5695.3	6129.8	6547.6	6841.7	7122.5	7436.7	7670.6	7546.9	7419.9	6116.4
52.5°	4619.1	4659.2	5157.2	6076.3	6540.9	7022.2	7546.9	8058.3	8028.2	7907.9	6497.5
55°	3703.3	3766.8	4294.9	5290.9	6156.5	6798.3	7593.7	8412.6	8526.2	8416.0	6871.8
57.5°	2830.9	2897.8	3342.3	4365.1	5665.2	6434.0	7560.3	8723.4	8990.8	8920.6	7216.1
60°	2132.4	2199.2	2483.3	3539.5	5050.2	6026.2	7393.2	8927.3	9408.6	9335.1	7466.7
62.5°	1527.4	1580.9	1791.5	2754.1	4301.6	5541.6	6982.1	8930.7	9645.9	9585.8	7587.1
65°	1099.6	1099.6	1270.1	1965.3	3599.7	4960.0	6360.4	8519.6	9595.8	9579.1	7503.5
67.5°	792.1	798.8	935.8	1373.7	2871.0	4254.8	5554.9	7787.6	9208.1	9291.6	7202.7
70°	561.5	578.2	641.7	959.2	2169.2	3359.0	4692.6	6828.4	8509.5	8656.6	6621.1
72.5°	434.5	444.5	488.0	668.5	1584.3	2496.7	3740.1	5758.8	7577.0	7744.1	5829.0
75°	334.2	344.3	377.7	491.3	1136.4	1751.4	2657.1	4468.7	6109.8	6407.2	4682.6
77.5°	244.0	257.4	280.8	357.6	661.8	1113.0	1611.0	2513.4	3372.4	3512.8	2453.3
80°	113.6	130.4	163.8	230.6	357.6	524.7	571.5	969.3	1621.0	1694.6	1330.2
82.5°	63.5	80.2	93.6	140.4	180.5	187.2	193.9	244.0	611.6	675.1	558.2
85°	30.1	40.1	43.5	60.2	60.2	53.5	63.5	46.8	100.3	120.3	117.0
87.5°	0.0	3.3	6.7	16.7	13.4	10.0	10.0	10.0	10.0	13.4	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2924.5	2881.1	2780.8	2693.9	2637.1	2587.0	2520.1	2490.0	2436.5	2446.6	2416.5
5°	2941.2	2861.0	2683.9	2520.1	2399.8	2292.8	2175.8	2109.0	2035.5	2028.8	2005.4
7.5°	2951.3	2827.6	2573.6	2343.0	2159.1	1995.4	1838.3	1751.4	1661.1	1641.1	1621.0
10°	2941.2	2777.5	2459.9	2159.1	1915.1	1711.3	1534.1	1423.8	1330.2	1306.8	1286.8
12.5°	2951.3	2750.7	2353.0	1988.7	1697.9	1467.3	1266.7	1153.1	1066.2	1042.8	1029.4
15°	2974.7	2734.0	2262.7	1834.9	1504.0	1246.7	1049.5	952.6	882.4	859.0	852.3
17.5°	2994.7	2717.3	2165.8	1684.5	1310.2	1052.8	882.4	802.2	742.0	718.6	711.9
20°	3021.5	2693.9	2068.9	1540.8	1139.7	899.1	748.7	678.5	631.7	615.0	611.6
22.5°	3044.8	2677.2	1978.7	1397.1	982.6	775.4	648.4	591.6	558.2	541.5	541.5
25°	3105.0	2683.9	1901.8	1263.4	865.7	678.5	571.5	528.1	501.3	491.3	491.3
27.5°	3175.2	2710.6	1841.6	1149.8	765.4	605.0	518.1	481.3	467.9	454.6	457.9
30°	3275.5	2764.1	1801.5	1056.2	691.9	548.1	474.6	447.9	434.5	431.2	431.2
32.5°	3402.5	2851.0	1798.2	996.0	638.4	504.7	444.5	421.1	414.4	411.1	411.1
35°	3552.9	2927.9	1778.1	969.3	605.0	474.6	421.1	404.4	401.1	401.1	401.1
37.5°	3733.4	3054.9	1764.7	932.5	588.2	457.9	404.4	391.1	391.1	391.1	391.1
40°	3920.5	3158.5	1744.7	899.1	581.6	447.9	394.4	377.7	377.7	377.7	377.7
42.5°	4144.5	3308.9	1738.0	882.4	571.5	441.2	381.0	361.0	364.3	364.3	367.7
45°	4415.2	3479.4	1734.7	865.7	568.2	434.5	367.7	344.3	347.6	344.3	344.3
47.5°	4689.3	3676.5	1744.7	855.6	564.9	427.8	357.6	327.5	327.5	324.2	324.2
50°	4976.7	3857.0	1751.4	845.6	558.2	414.4	340.9	314.2	307.5	300.8	304.2
52.5°	5247.4	4024.1	1754.7	828.9	538.1	394.4	327.5	297.5	287.4	277.4	280.8
55°	5518.2	4184.6	1761.4	808.8	511.4	374.3	310.8	280.8	267.4	254.0	254.0
57.5°	5762.2	4325.0	1744.7	758.7	481.3	354.3	294.1	260.7	240.6	227.3	227.3
60°	5929.3	4425.2	1694.6	685.2	441.2	330.9	277.4	240.6	217.3	207.2	207.2
62.5°	6009.5	4441.9	1604.3	564.9	391.1	307.5	257.4	220.6	200.5	193.9	193.9
65°	5932.6	4368.4	1463.9	424.5	337.6	280.8	237.3	203.9	183.8	167.1	167.1
67.5°	5665.2	4161.2	1270.1	320.9	287.4	254.0	217.3	187.2	163.8	150.4	150.4
70°	5127.1	3730.0	982.6	257.4	244.0	220.6	197.2	167.1	147.1	130.4	130.4
72.5°	4421.9	3161.8	691.9	207.2	207.2	187.2	167.1	147.1	127.0	113.6	113.6
75°	3392.5	2339.6	464.6	167.1	170.5	157.1	137.0	120.3	107.0	96.9	96.9
77.5°	1851.6	1156.4	284.1	123.7	127.0	120.3	107.0	96.9	90.2	80.2	80.2
80°	899.1	508.0	163.8	86.9	90.2	86.9	80.2	70.2	70.2	63.5	63.5
82.5°	377.7	190.5	86.9	60.2	60.2	53.5	50.1	50.1	50.1	46.8	46.8
85°	93.6	36.8	36.8	33.4	33.4	33.4	30.1	30.1	30.1	23.4	26.7
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	10.0	3.3	0.0	0.0	0.0
90°	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)