

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: P841093

Luminaire Tested: **ARCH4-130-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15406 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 132
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



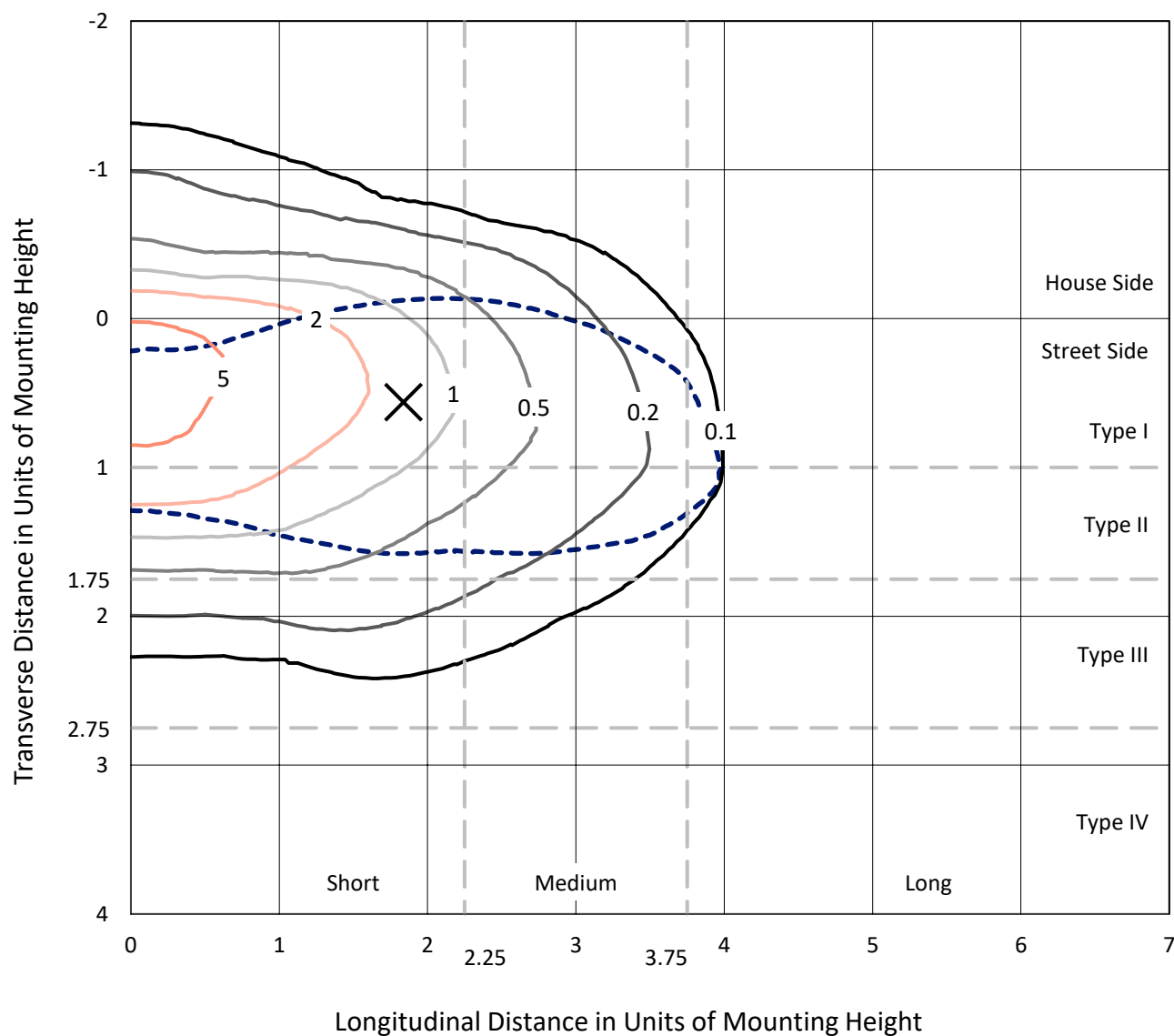
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

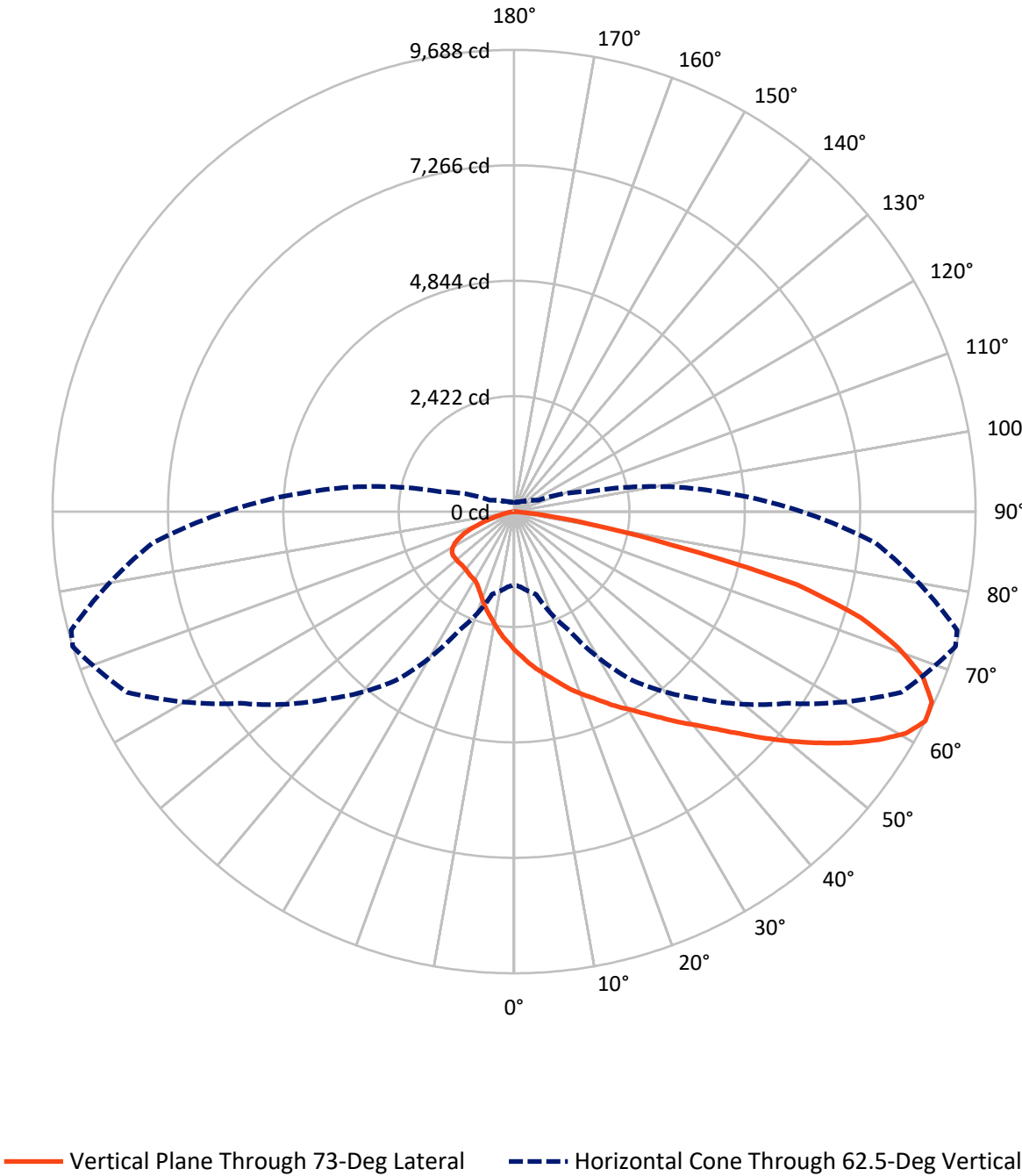


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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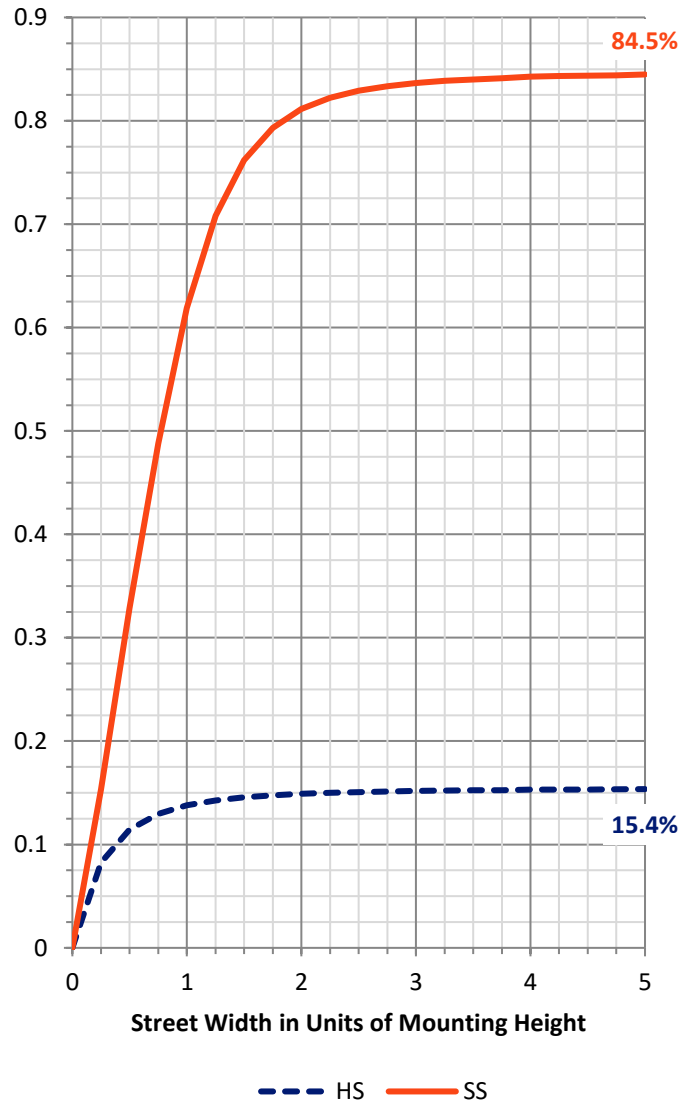
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2388.2	0.0	2388.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13017.8	0.0	13017.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	15406.0	0.0	15406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.8
10°-20°	850.4	5.5
20°-30°	1415.5	9.2
30°-40°	2135.8	13.9
40°-50°	2985.2	19.4
50°-60°	3297.4	21.4
60°-70°	2872.5	18.6
70°-80°	1451.0	9.4
80°-90°	116.5	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°	15406.0	100.0
0°-180°	15406.0	100.0

Coefficient of Utilization



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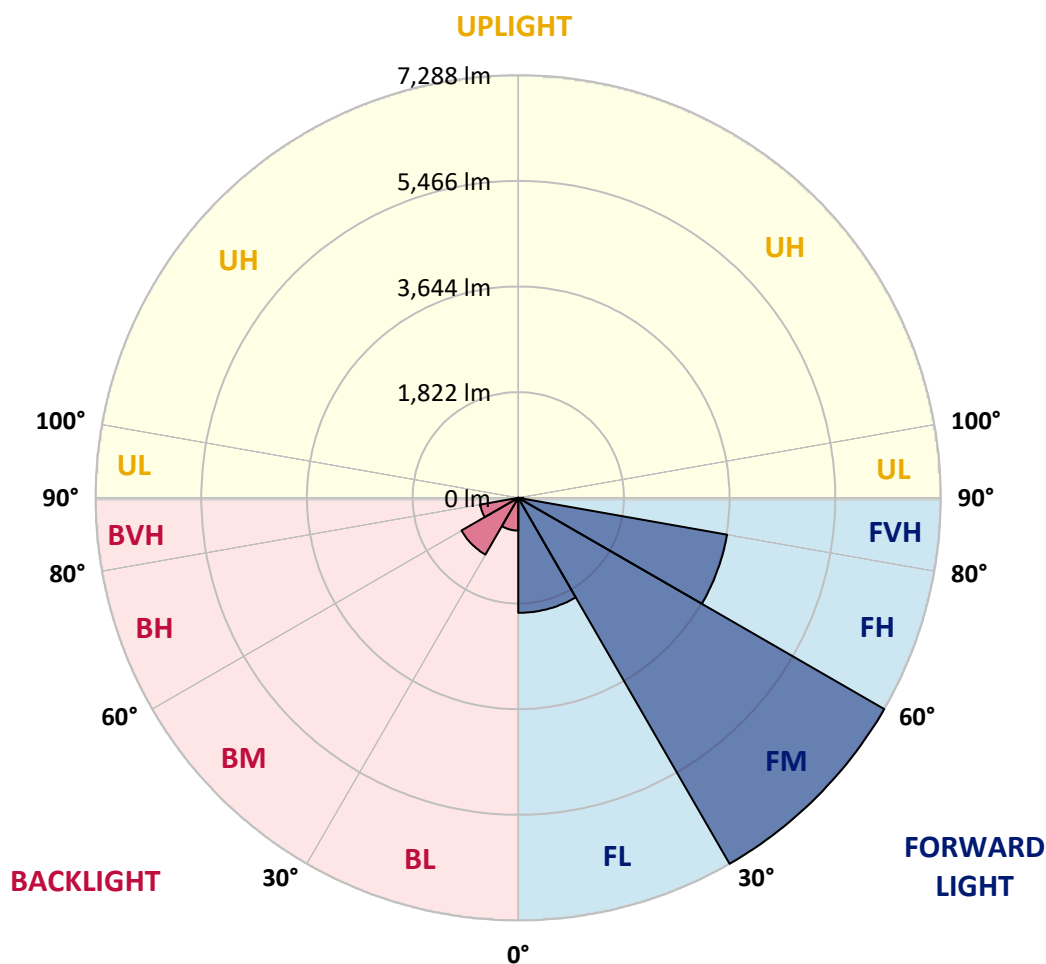
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1983.2	12.9			
FM	(30°-60°)	7287.6	47.3			
FH	(60°-80°)	3656.9	23.7			G2/5000
FVH	(80°-90°)	90.1	0.6			G1/100
BL	(0°-30°)	564.5	3.7	B2/1000		
BM	(30°-60°)	1130.8	7.3	B2/2500		
BH	(60°-80°)	666.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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°	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2
2.5°	3320.0	3356.9	3336.8	3350.2	3283.1	3239.4	3189.1	3091.7	3038.0	3031.3	2967.5
5°	3806.7	3847.0	3813.5	3803.4	3685.9	3585.2	3471.0	3299.8	3185.7	3165.6	3024.6
7.5°	4293.5	4330.4	4290.1	4259.9	4102.1	3924.2	3756.4	3504.6	3326.7	3293.1	3071.6
10°	4635.9	4669.5	4639.3	4609.0	4444.6	4263.3	4024.9	3696.0	3454.3	3400.6	3101.8
12.5°	4894.4	4914.5	4901.1	4874.2	4719.8	4525.1	4296.9	3910.8	3598.6	3531.5	3148.8
15°	5105.9	5139.4	5122.7	5102.5	4954.8	4760.1	4541.9	4135.7	3766.5	3682.5	3219.3
17.5°	5246.9	5270.4	5273.7	5273.7	5142.8	4951.4	4740.0	4340.5	3934.3	3826.9	3286.4
20°	5310.6	5337.5	5354.3	5381.1	5273.7	5109.2	4894.4	4515.1	4092.1	3971.2	3350.2
22.5°	5340.9	5364.3	5408.0	5468.4	5381.1	5243.5	5045.4	4676.2	4249.9	4122.3	3424.1
25°	5364.3	5394.6	5458.3	5572.5	5512.1	5394.6	5223.4	4860.8	4437.8	4306.9	3531.5
27.5°	5428.1	5465.1	5525.5	5663.1	5589.3	5532.2	5411.3	5058.9	4635.9	4501.6	3662.4
30°	5649.7	5679.9	5676.5	5763.8	5673.2	5656.4	5572.5	5250.2	4827.2	4693.0	3816.8
32.5°	6052.5	6082.7	6008.9	5975.3	5777.2	5780.6	5747.0	5455.0	5055.5	4917.9	3994.7
35°	6485.6	6519.1	6421.8	6364.7	6032.4	5935.0	5951.8	5710.1	5310.6	5173.0	4216.3
37.5°	6871.6	6911.9	6828.0	6744.0	6408.3	6183.4	6180.1	5995.4	5602.7	5461.7	4461.3
40°	7083.1	7130.1	7180.4	7133.4	6781.0	6532.6	6425.1	6287.5	5891.4	5747.0	4726.5
42.5°	7183.8	7314.7	7405.4	7375.1	7086.4	6834.7	6707.1	6593.0	6243.9	6102.9	5042.1
45°	6901.8	6905.2	7096.5	7261.0	7207.3	7039.4	7016.0	6935.4	6646.7	6512.4	5397.9
47.5°	6549.3	6522.5	6656.8	6948.8	7099.9	7143.5	7281.1	7314.7	7106.6	6972.3	5760.5
50°	5703.4	5720.2	6156.6	6576.2	6871.6	7153.6	7469.1	7704.1	7579.9	7452.4	6143.2
52.5°	4639.3	4679.5	5179.7	6102.9	6569.5	7052.9	7579.9	8093.5	8063.3	7942.5	6525.8
55°	3719.5	3783.2	4313.6	5314.0	6183.4	6828.0	7626.9	8449.4	8563.5	8452.7	6901.8
57.5°	2843.3	2910.4	3356.9	4384.1	5690.0	6462.1	7593.3	8761.5	9030.1	8959.6	7247.6
60°	2141.7	2208.8	2494.2	3555.0	5072.3	6052.5	7425.5	8966.3	9449.7	9375.9	7499.3
62.5°	1534.1	1587.8	1799.3	2766.1	4320.3	5565.8	7012.6	8969.7	9688.1	9627.6	7620.2
65°	1104.4	1104.4	1275.6	1973.9	3615.4	4981.7	6388.2	8556.8	9637.7	9620.9	7536.3
67.5°	795.6	802.3	939.9	1379.7	2883.6	4273.4	5579.2	7821.6	9248.3	9332.2	7234.2
70°	564.0	580.7	644.5	963.4	2178.6	3373.7	4713.1	6858.2	8546.7	8694.4	6650.0
72.5°	436.4	446.5	490.1	671.4	1591.2	2507.6	3756.4	5784.0	7610.1	7778.0	5854.5
75°	335.7	345.8	379.3	493.5	1141.4	1759.0	2668.7	4488.2	6136.4	6435.2	4703.0
77.5°	245.1	258.5	282.0	359.2	664.7	1117.9	1618.0	2524.4	3387.1	3528.1	2464.0
80°	114.1	130.9	164.5	231.6	359.2	527.0	574.0	973.5	1628.1	1702.0	1336.1
82.5°	63.8	80.6	94.0	141.0	181.3	188.0	194.7	245.1	614.3	678.1	560.6
85°	30.2	40.3	43.6	60.4	60.4	53.7	63.8	47.0	100.7	120.8	117.5
87.5°	0.0	3.4	6.7	16.8	13.4	10.1	10.1	10.1	10.1	13.4	10.1
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°	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2
2.5°	2937.3	2893.7	2793.0	2705.7	2648.6	2598.3	2531.1	2500.9	2447.2	2457.3	2427.0
5°	2954.1	2873.5	2695.6	2531.1	2410.3	2302.8	2185.4	2118.2	2044.4	2037.6	2014.1
7.5°	2964.2	2839.9	2584.8	2353.2	2168.6	2004.1	1846.3	1759.0	1668.4	1648.2	1628.1
10°	2954.1	2789.6	2470.7	2168.6	1923.5	1718.7	1540.8	1430.0	1336.1	1312.6	1292.4
12.5°	2964.2	2762.7	2363.3	1997.4	1705.3	1473.7	1272.3	1158.1	1070.9	1047.4	1033.9
15°	2987.7	2746.0	2272.6	1842.9	1510.6	1252.1	1054.1	956.7	886.2	862.7	856.0
17.5°	3007.8	2729.2	2175.3	1691.9	1315.9	1057.4	886.2	805.7	745.2	721.7	715.0
20°	3034.7	2705.7	2077.9	1547.5	1144.7	903.0	751.9	681.5	634.5	617.7	614.3
22.5°	3058.1	2688.9	1987.3	1403.2	986.9	778.8	651.2	594.2	560.6	543.8	543.8
25°	3118.6	2695.6	1910.1	1268.9	869.4	681.5	574.0	530.4	503.5	493.5	493.5
27.5°	3189.1	2722.5	1849.7	1154.8	768.7	607.6	520.3	483.4	470.0	456.5	459.9
30°	3289.8	2776.2	1809.4	1060.8	694.9	550.5	476.7	449.8	436.4	433.0	433.0
32.5°	3417.3	2863.4	1806.0	1000.4	641.2	506.9	446.5	423.0	416.3	412.9	412.9
35°	3568.4	2940.7	1785.9	973.5	607.6	476.7	423.0	406.2	402.8	402.8	402.8
37.5°	3749.7	3068.2	1772.5	936.6	590.8	459.9	406.2	392.8	392.8	392.8	392.8
40°	3937.7	3172.3	1752.3	903.0	584.1	449.8	396.1	379.3	379.3	379.3	379.3
42.5°	4162.6	3323.3	1745.6	886.2	574.0	443.1	382.7	362.5	365.9	365.9	369.3
45°	4434.5	3494.5	1742.2	869.4	570.7	436.4	369.3	345.8	349.1	345.8	345.8
47.5°	4709.8	3692.6	1752.3	859.4	567.3	429.7	359.2	329.0	329.0	325.6	325.6
50°	4998.4	3873.9	1759.0	849.3	560.6	416.3	342.4	315.5	308.8	302.1	305.5
52.5°	5270.4	4041.7	1762.4	832.5	540.5	396.1	329.0	298.8	288.7	278.6	282.0
55°	5542.3	4202.9	1769.1	812.4	513.6	376.0	312.2	282.0	268.6	255.1	255.1
57.5°	5787.3	4343.8	1752.3	762.0	483.4	355.8	295.4	261.8	241.7	228.3	228.3
60°	5955.2	4444.6	1702.0	688.2	443.1	332.3	278.6	241.7	218.2	208.1	208.1
62.5°	6035.7	4461.3	1611.3	567.3	392.8	308.8	258.5	221.6	201.4	194.7	194.7
65°	5958.5	4387.5	1470.3	426.3	339.0	282.0	238.3	204.8	184.6	167.8	167.8
67.5°	5690.0	4179.4	1275.6	322.3	288.7	255.1	218.2	188.0	164.5	151.1	151.1
70°	5149.5	3746.3	986.9	258.5	245.1	221.6	198.1	167.8	147.7	130.9	130.9
72.5°	4441.2	3175.6	694.9	208.1	208.1	188.0	167.8	147.7	127.6	114.1	114.1
75°	3407.3	2349.8	466.6	167.8	171.2	157.8	137.6	120.8	107.4	97.4	97.4
77.5°	1859.7	1161.5	285.3	124.2	127.6	120.8	107.4	97.4	90.6	80.6	80.6
80°	903.0	510.3	164.5	87.3	90.6	87.3	80.6	70.5	70.5	63.8	63.8
82.5°	379.3	191.3	87.3	60.4	60.4	53.7	50.4	50.4	50.4	47.0	47.0
85°	94.0	36.9	36.9	33.6	33.6	33.6	30.2	30.2	30.2	23.5	26.9
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	10.1	3.4	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)