

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: P835970

Luminaire Tested: **ARCH3-120-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12498 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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



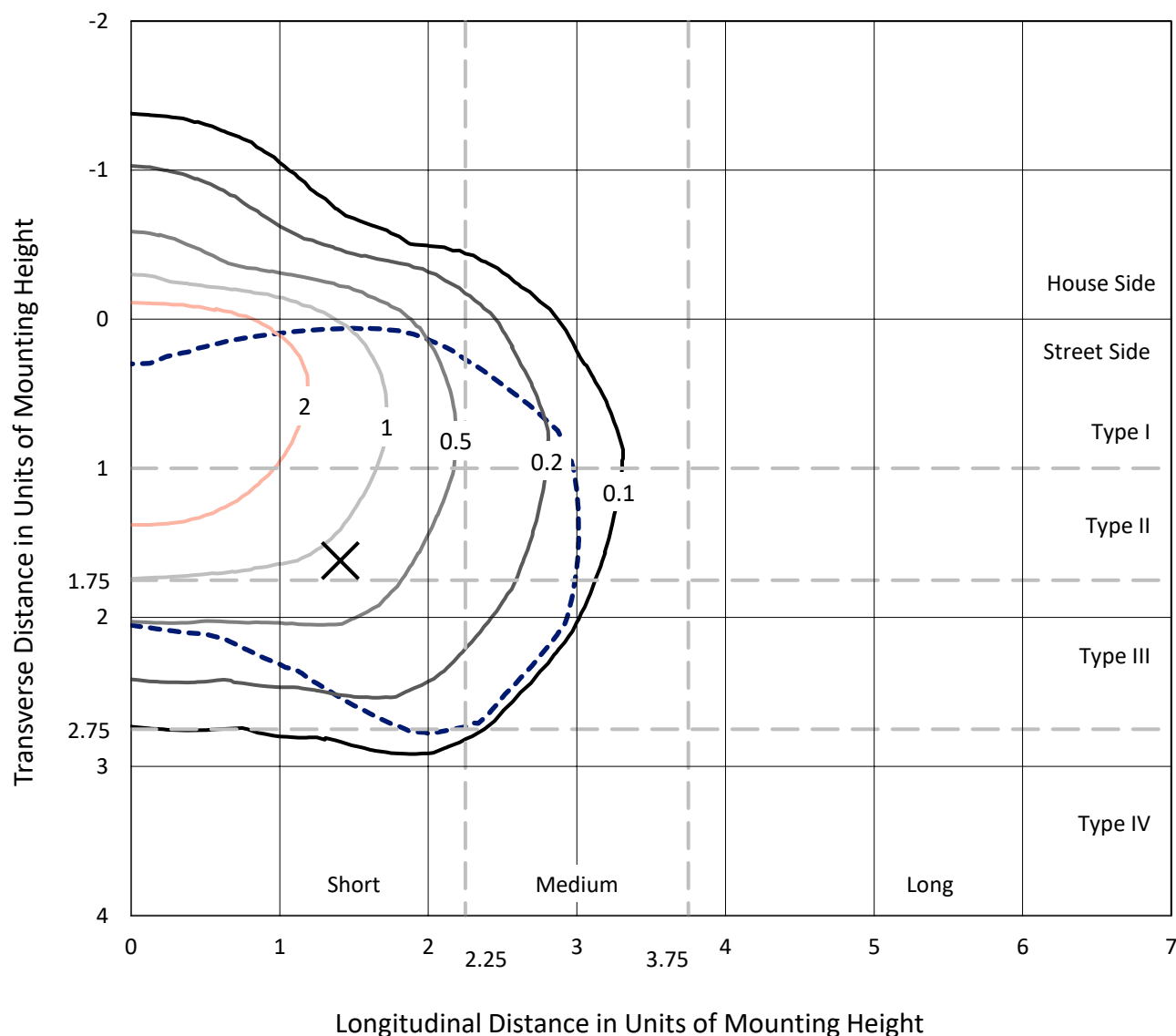
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

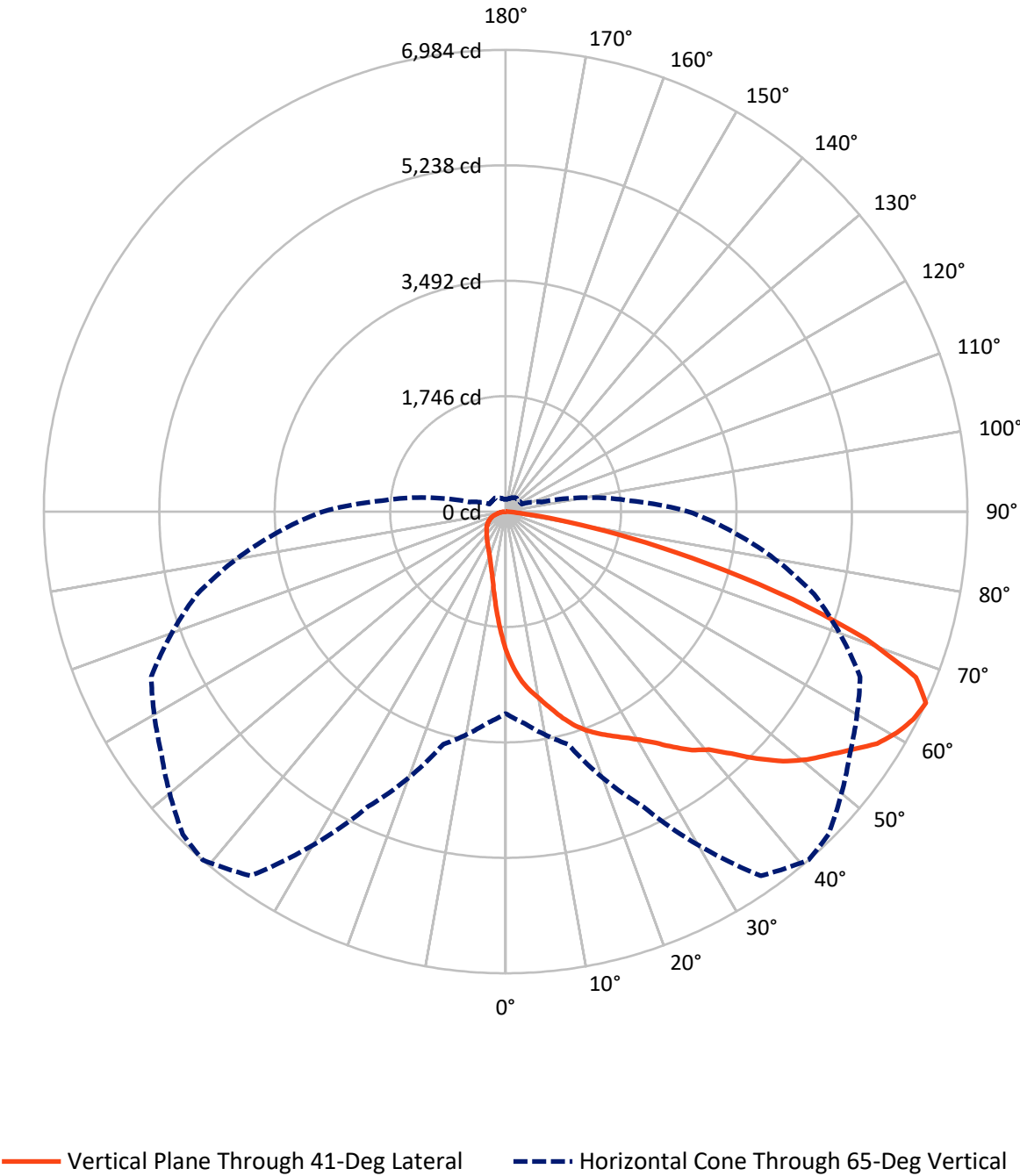


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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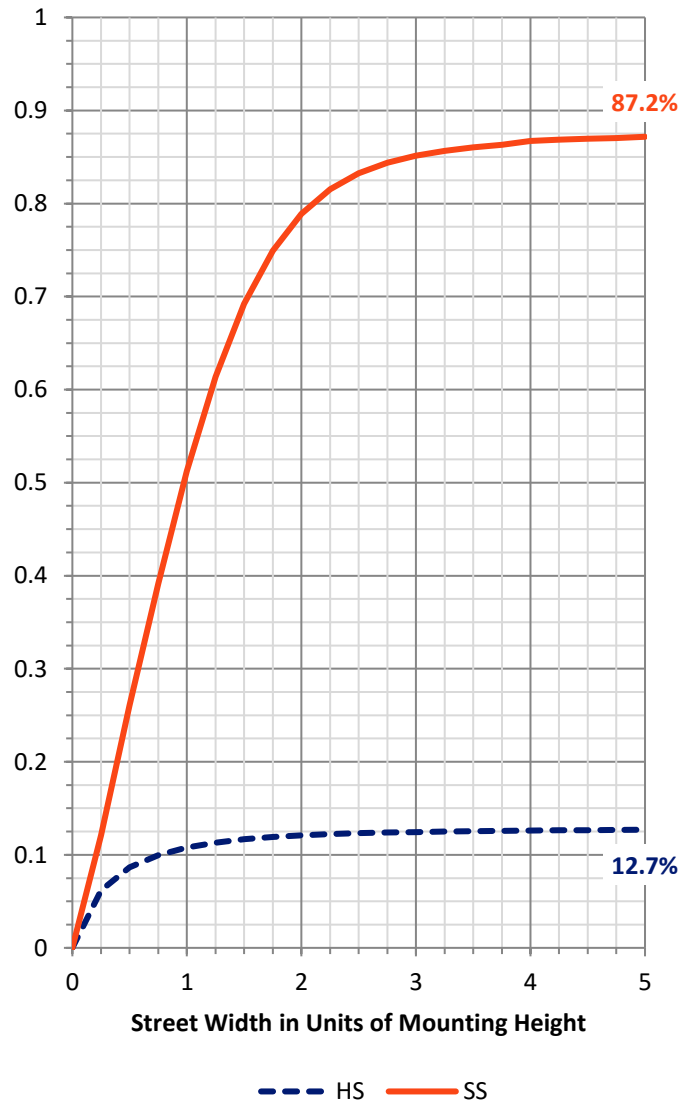
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.5	0.0	1604.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10893.5	0.0	10893.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	12498.0	0.0	12498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	1.6
10°-20°	595.0	4.8
20°-30°	1023.6	8.2
30°-40°	1552.4	12.4
40°-50°	2274.3	18.2
50°-60°	2872.0	23.0
60°-70°	2693.0	21.5
70°-80°	1200.3	9.6
80°-90°	88.9	0.7
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°	12498.0	100.0
0°-180°	12498.0	100.0

Coefficient of Utilization



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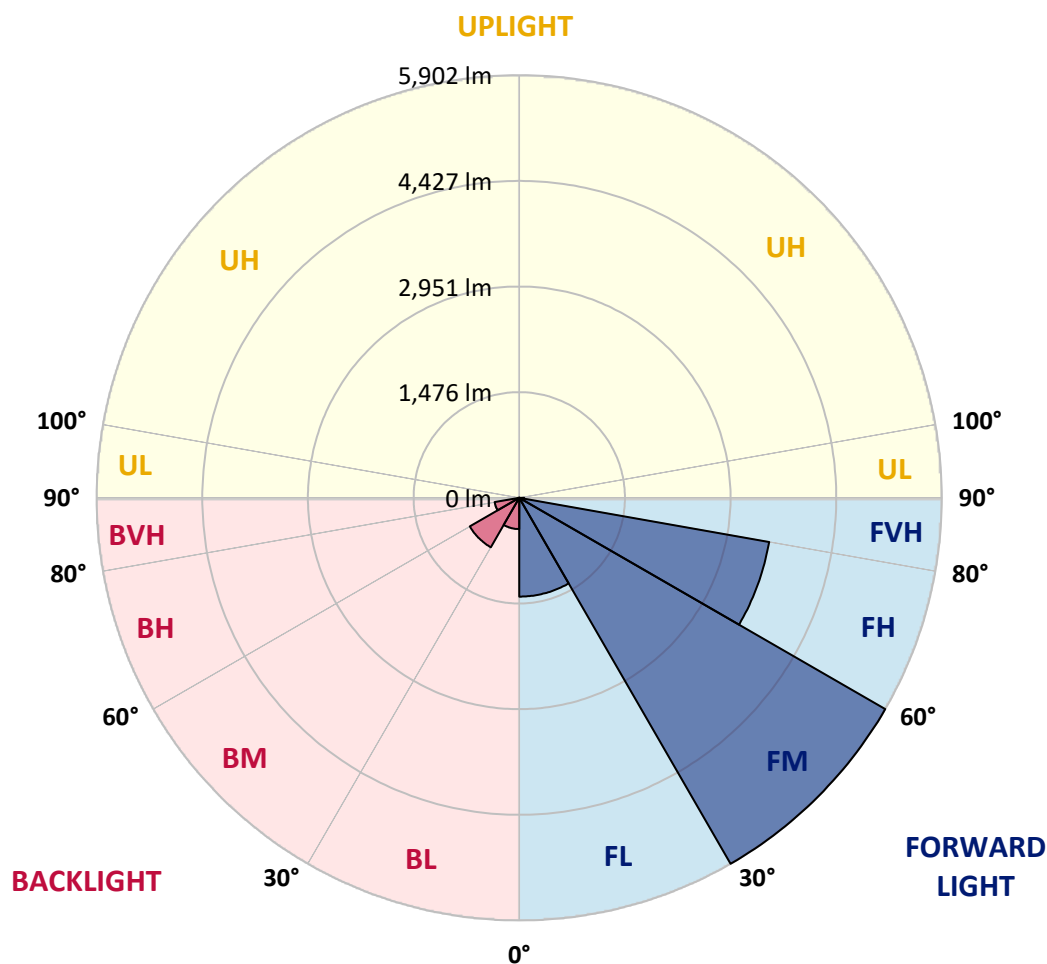
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1380.2	11.0			
FM	(30°-60°)	5902.0	47.2			
FH	(60°-80°)	3544.8	28.4			G2/5000
FVH	(80°-90°)	66.4	0.5			G1/100
BL	(0°-30°)	436.7	3.5	B1/500		
BM	(30°-60°)	796.7	6.4	B1/1000		
BH	(60°-80°)	348.6	2.8	B1/500		G1/500
BVH	(80°-90°)	22.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6
2.5°	2456.4	2448.5	2443.2	2414.2	2414.2	2374.7	2377.3	2340.4	2295.6	2224.5	2148.0
5°	2688.3	2677.8	2664.6	2635.6	2625.1	2585.6	2580.3	2527.6	2451.1	2327.3	2190.2
7.5°	2891.3	2880.8	2862.3	2820.1	2791.1	2743.7	2730.5	2662.0	2577.7	2424.8	2232.4
10°	3075.8	3067.9	3044.2	2991.4	2951.9	2893.9	2870.2	2778.0	2672.5	2503.9	2266.6
12.5°	3262.9	3252.4	3220.7	3175.9	3128.5	3060.0	3031.0	2912.4	2778.0	2590.8	2316.7
15°	3436.9	3421.1	3397.3	3349.9	3307.7	3241.8	3210.2	3070.5	2907.1	2688.3	2382.6
17.5°	3550.2	3537.0	3515.9	3489.6	3455.3	3405.2	3373.6	3236.6	3036.3	2783.2	2451.1
20°	3618.7	3613.5	3605.6	3589.7	3573.9	3539.7	3515.9	3386.8	3175.9	2875.5	2517.0
22.5°	3671.4	3666.2	3663.5	3663.5	3666.2	3653.0	3637.2	3526.5	3310.4	2973.0	2577.7
25°	3753.1	3750.5	3745.2	3740.0	3758.4	3761.1	3755.8	3679.3	3479.0	3102.1	2654.1
27.5°	3866.5	3858.6	3848.0	3842.8	3861.2	3874.4	3884.9	3832.2	3658.3	3233.9	2741.1
30°	4040.4	4016.7	3990.4	3971.9	3985.1	4006.2	4029.9	3998.3	3842.8	3397.3	2830.7
32.5°	4246.0	4217.0	4156.4	4122.1	4156.4	4172.2	4190.7	4174.8	4035.2	3573.9	2920.3
35°	4496.4	4462.1	4398.9	4348.8	4409.4	4375.2	4367.2	4351.4	4217.0	3747.9	3020.4
37.5°	4912.8	4862.7	4762.6	4651.9	4651.9	4578.1	4549.1	4501.7	4380.4	3903.4	3118.0
40°	5395.1	5329.3	5200.1	5036.7	4886.5	4733.6	4715.2	4680.9	4572.8	4082.6	3228.7
42.5°	5924.9	5798.4	5619.2	5421.5	5179.0	5005.1	4962.9	4865.4	4760.0	4264.5	3339.4
45°	6512.7	6249.1	5988.2	5888.0	5487.4	5329.3	5250.2	5073.6	4955.0	4454.2	3455.3
47.5°	6607.5	6402.0	6228.0	6212.2	5774.7	5642.9	5553.3	5300.3	5165.8	4657.2	3576.6
50°	6554.8	6431.0	6449.4	6386.1	5985.5	5898.6	5830.0	5542.7	5374.1	4852.2	3687.3
52.5°	6333.4	6402.0	6507.4	6391.4	6185.8	6114.7	6080.4	5803.7	5569.1	5031.4	3787.4
55°	6069.9	6117.3	6344.0	6486.3	6417.8	6354.5	6322.9	6106.8	5761.5	5181.7	3879.7
57.5°	5685.1	5664.0	5914.4	6470.5	6660.3	6623.4	6589.1	6404.6	5940.7	5289.7	3937.6
60°	5107.9	5063.1	5379.3	6154.2	6739.3	6797.3	6781.5	6602.3	6077.8	5287.1	3913.9
62.5°	4109.0	4219.7	4657.2	5637.6	6773.6	6921.2	6892.2	6618.1	6122.6	5134.2	3763.7
65°	3054.7	3212.8	3642.4	4926.0	6726.1	6984.4	6905.4	6359.8	5914.4	4831.1	3434.2
67.5°	2200.8	2340.4	2654.1	4053.6	6270.2	6694.5	6602.3	5938.1	5434.7	4401.5	2978.3
70°	1504.9	1605.1	1818.6	2951.9	5353.0	5787.9	5729.9	5308.2	4678.3	3890.2	2419.5
72.5°	1062.2	1104.3	1241.4	1947.7	4066.8	4541.2	4472.7	4367.2	3758.4	3233.9	1881.8
75°	796.0	822.3	896.1	1259.8	2743.7	3146.9	3083.7	3144.3	2807.0	2448.5	1370.5
77.5°	300.5	326.8	508.7	803.9	1623.6	1931.9	1868.7	1905.6	1560.3	1236.1	682.6
80°	81.7	87.0	168.7	382.2	738.0	962.0	875.0	751.2	579.8	569.3	361.1
82.5°	34.3	39.5	76.4	205.6	263.6	263.6	221.4	274.1	221.4	266.2	174.0
85°	13.2	15.8	18.4	52.7	34.3	36.9	39.5	52.7	44.8	55.3	39.5
87.5°	0.0	0.0	0.0	2.6	2.6	5.3	2.6	5.3	7.9	7.9	7.9
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°	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6	2129.6
2.5°	2116.4	2087.4	2045.3	1976.7	1905.6	1866.0	1816.0	1808.0	1755.3	1750.1	1729.0
5°	2129.6	2069.0	1960.9	1829.1	1700.0	1599.8	1526.0	1486.5	1410.1	1410.1	1389.0
7.5°	2140.1	2045.3	1871.3	1676.3	1499.7	1365.3	1265.1	1222.9	1154.4	1149.1	1133.3
10°	2142.8	2016.3	1773.8	1520.8	1304.6	1167.6	1070.1	1022.6	962.0	956.7	946.2
12.5°	2163.9	2000.4	1686.8	1386.3	1165.0	1017.4	922.5	882.9	835.5	830.2	819.7
15°	2198.1	2000.4	1613.0	1273.0	1041.1	904.0	822.3	785.4	751.2	745.9	740.6
17.5°	2232.4	1995.2	1539.2	1167.6	938.3	814.4	743.2	714.3	687.9	685.3	680.0
20°	2264.0	1992.5	1465.4	1078.0	859.2	740.6	685.3	658.9	637.8	637.8	635.2
22.5°	2295.6	1987.3	1394.3	993.6	790.7	685.3	637.8	608.8	593.0	593.0	590.4
25°	2343.1	1987.3	1328.4	922.5	735.3	643.1	595.7	574.6	561.4	558.8	558.8
27.5°	2398.4	2003.1	1270.4	859.2	687.9	600.9	564.0	542.9	527.1	521.9	524.5
30°	2459.0	2016.3	1217.7	803.9	643.1	569.3	529.8	508.7	492.9	487.6	490.2
32.5°	2519.7	2032.1	1170.2	753.8	598.3	540.3	500.8	477.1	461.2	458.6	458.6
35°	2585.6	2047.9	1122.8	711.6	561.4	511.3	474.4	448.1	437.5	432.2	434.9
37.5°	2651.4	2074.2	1078.0	672.1	535.0	485.0	450.7	424.3	416.4	413.8	413.8
40°	2730.5	2113.8	1059.5	645.7	511.3	461.2	432.2	405.9	398.0	398.0	398.0
42.5°	2796.4	2145.4	1043.7	616.7	492.9	440.2	413.8	392.7	387.4	384.8	387.4
45°	2862.3	2174.4	1022.6	590.4	469.1	419.1	398.0	376.9	371.6	371.6	371.6
47.5°	2928.2	2190.2	993.6	564.0	448.1	400.6	382.2	363.7	358.4	358.4	358.4
50°	2980.9	2203.4	951.5	535.0	424.3	384.8	366.4	347.9	342.6	342.6	342.6
52.5°	3033.6	2206.0	906.7	500.8	400.6	366.4	350.5	332.1	326.8	324.2	324.2
55°	3081.1	2203.4	853.9	461.2	374.3	345.3	332.1	316.3	305.7	295.2	300.5
57.5°	3115.3	2200.8	793.3	421.7	347.9	324.2	318.9	297.8	276.7	250.4	255.7
60°	3102.1	2171.8	727.4	371.6	318.9	303.1	303.1	274.1	237.2	224.0	226.7
62.5°	3017.8	2090.1	658.9	318.9	289.9	282.0	279.4	247.7	218.8	205.6	208.2
65°	2764.8	1884.5	558.8	271.5	260.9	258.3	258.3	229.3	202.9	187.1	189.8
67.5°	2380.0	1581.4	456.0	229.3	231.9	237.2	237.2	210.9	184.5	168.7	171.3
70°	1908.2	1236.1	363.7	197.7	200.3	208.2	213.5	189.8	166.0	150.2	150.2
72.5°	1436.4	938.3	292.6	166.0	179.2	179.2	187.1	168.7	145.0	129.1	131.8
75°	1041.1	672.1	231.9	139.7	155.5	152.9	152.9	142.3	123.9	113.3	113.3
77.5°	492.9	353.2	184.5	100.2	121.2	118.6	121.2	113.3	105.4	94.9	97.5
80°	242.5	174.0	118.6	71.2	84.3	87.0	94.9	89.6	87.0	79.1	79.1
82.5°	116.0	68.5	55.3	50.1	58.0	60.6	65.9	65.9	68.5	63.3	63.3
85°	31.6	18.4	23.7	31.6	36.9	39.5	44.8	47.4	47.4	44.8	47.4
87.5°	7.9	7.9	10.5	15.8	18.4	21.1	23.7	23.7	10.5	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)