

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: P841817

Luminaire Tested: **ARCH4-230-730-U-T4W-HSS**

Issue Date: 5/27/2024

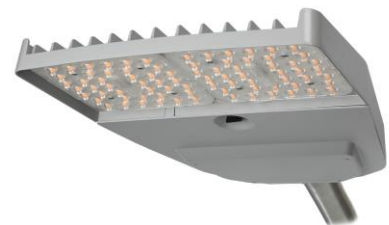
Test Information

Test Method: LM-79-08
Report Number: P841817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23960 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

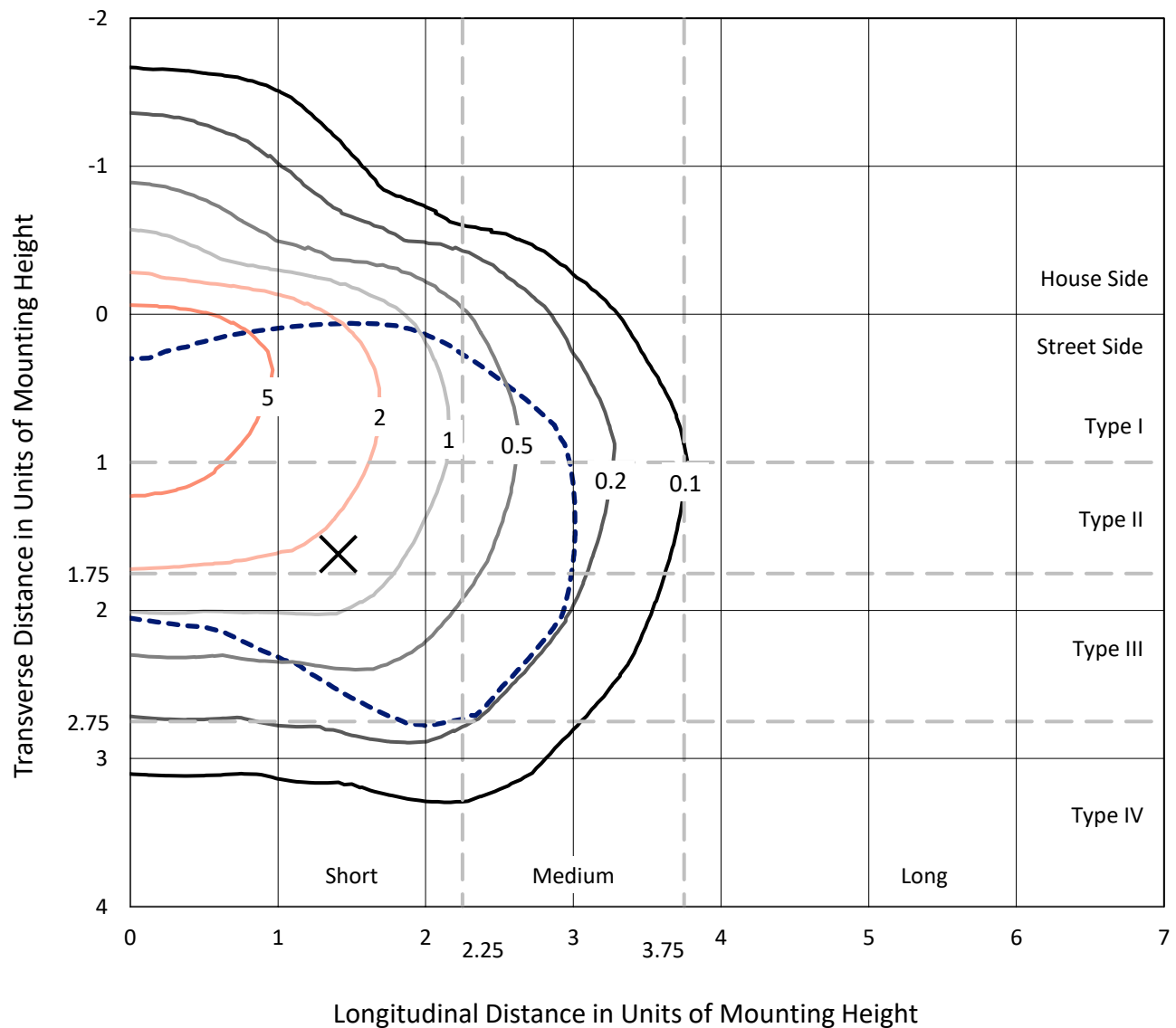
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

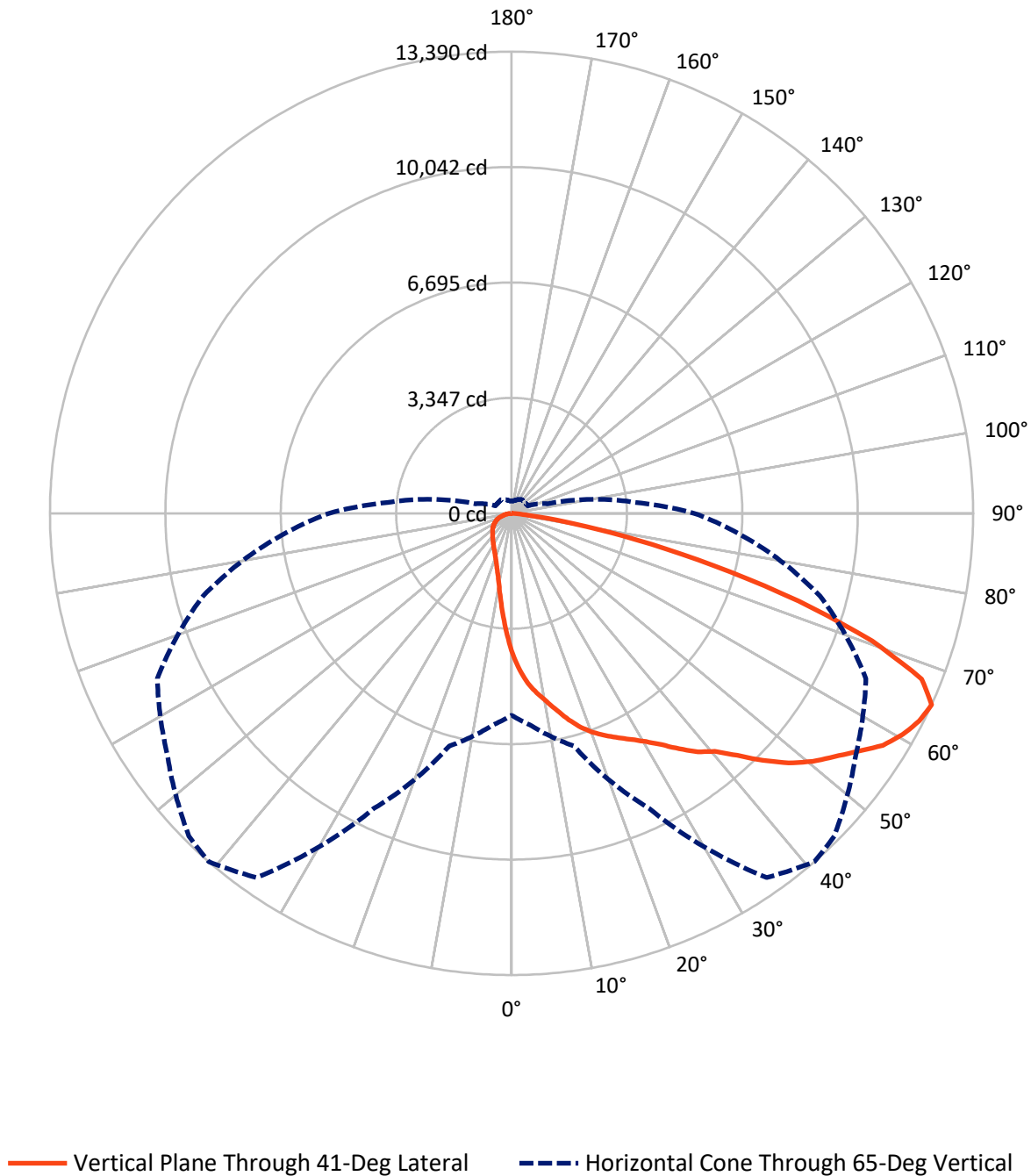
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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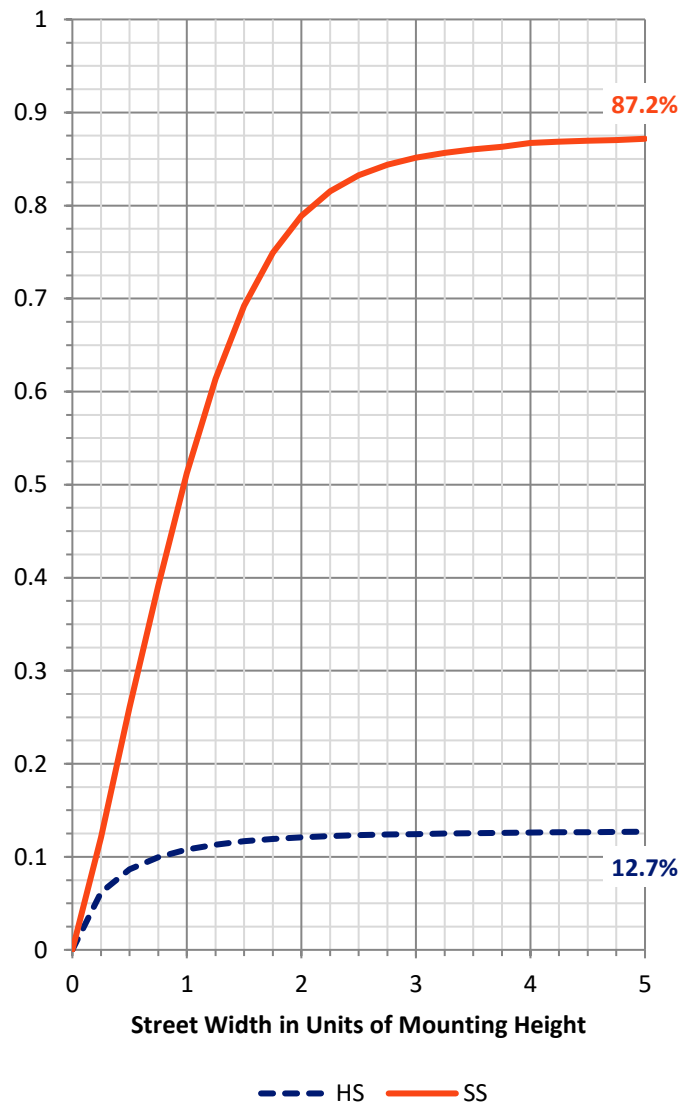
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3076.1	0.0	3076.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20883.9	0.0	20883.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	23960.0	0.0	23960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	1.6
10°-20°	1140.6	4.8
20°-30°	1962.3	8.2
30°-40°	2976.2	12.4
40°-50°	4360.2	18.2
50°-60°	5505.9	23.0
60°-70°	5162.8	21.5
70°-80°	2301.1	9.6
80°-90°	170.5	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°	23960.0	100.0
0°-180°	23960.0	100.0

Coefficient of Utilization



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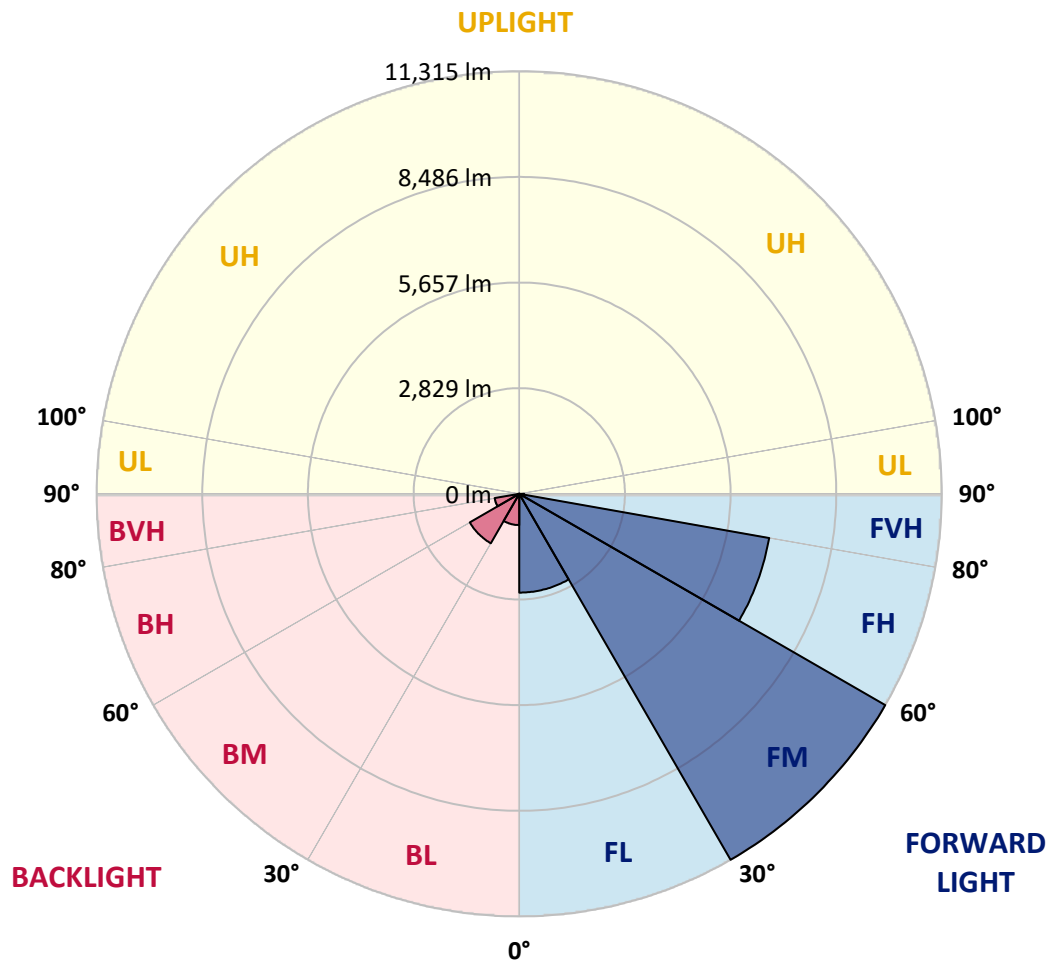
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2646.1	11.0			
FM	(30°-60°)	11314.9	47.2			
FH	(60°-80°)	6795.7	28.4			G3/7500
FVH	(80°-90°)	127.3	0.5			G2/225
BL	(0°-30°)	837.3	3.5	B2/1000		
BM	(30°-60°)	1527.4	6.4	B2/2500		
BH	(60°-80°)	668.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	43.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7
2.5°	4709.2	4694.0	4683.9	4628.4	4628.4	4552.6	4557.6	4486.9	4401.0	4264.6	4118.0
5°	5153.9	5133.6	5108.4	5052.8	5032.6	4956.8	4946.7	4845.6	4699.1	4461.6	4198.9
7.5°	5542.9	5522.7	5487.3	5406.5	5350.9	5260.0	5234.7	5103.3	4941.6	4648.6	4279.7
10°	5896.6	5881.5	5836.0	5734.9	5659.1	5548.0	5502.5	5325.6	5123.5	4800.2	4345.4
12.5°	6255.4	6235.1	6174.5	6088.6	5997.7	5866.3	5810.7	5583.3	5325.6	4966.9	4441.4
15°	6588.8	6558.5	6513.1	6422.1	6341.3	6214.9	6154.3	5886.5	5573.2	5153.9	4567.7
17.5°	6806.1	6780.9	6740.4	6689.9	6624.2	6528.2	6467.6	6204.8	5820.8	5335.8	4699.1
20°	6937.5	6927.4	6912.2	6881.9	6851.6	6785.9	6740.4	6492.8	6088.6	5512.6	4825.4
22.5°	7038.5	7028.4	7023.4	7023.4	7028.4	7003.2	6972.9	6760.6	6346.3	5699.6	4941.6
25°	7195.2	7190.1	7180.0	7169.9	7205.3	7210.3	7200.2	7053.7	6669.7	5947.1	5088.2
27.5°	7412.5	7397.3	7377.1	7367.0	7402.3	7427.6	7447.8	7346.8	7013.3	6199.8	5254.9
30°	7745.9	7700.5	7649.9	7614.6	7639.8	7680.2	7725.7	7665.1	7367.0	6513.1	5426.7
32.5°	8140.1	8084.5	7968.3	7902.6	7968.3	7998.6	8033.9	8003.6	7735.8	6851.6	5598.5
35°	8620.1	8554.4	8433.1	8337.1	8453.3	8387.6	8372.5	8342.2	8084.5	7185.1	5790.5
37.5°	9418.4	9322.4	9130.4	8918.2	8918.2	8776.7	8721.1	8630.2	8397.7	7483.2	5977.5
40°	10343.1	10216.8	9969.2	9655.9	9367.9	9074.8	9039.5	8973.8	8766.6	7826.8	6189.7
42.5°	11358.7	11116.2	10772.6	10393.6	9928.7	9595.3	9514.4	9327.5	9125.3	8175.4	6401.9
45°	12485.5	11980.2	11480.0	11287.9	10519.9	10216.8	10065.2	9726.6	9499.3	8539.2	6624.2
47.5°	12667.4	12273.2	11939.8	11909.4	11070.7	10818.0	10646.2	10161.2	9903.5	8928.3	6856.6
50°	12566.3	12328.8	12364.2	12242.9	11474.9	11308.2	11176.8	10626.0	10302.6	9302.2	7068.9
52.5°	12141.9	12273.2	12475.4	12253.0	11858.9	11722.5	11656.8	11126.3	10676.6	9645.8	7260.9
55°	11636.6	11727.5	12162.1	12434.9	12303.6	12182.3	12121.7	11707.3	11045.4	9933.8	7437.7
57.5°	10898.9	10858.5	11338.5	12404.6	12768.4	12697.7	12632.0	12278.3	11389.0	10141.0	7548.9
60°	9792.3	9706.4	10312.8	11798.3	12920.0	13031.2	13000.8	12657.3	11651.7	10135.9	7503.4
62.5°	7877.3	8089.5	8928.3	10807.9	12985.7	13268.6	13213.1	12687.6	11737.6	9842.8	7215.4
65°	5856.2	6159.4	6983.0	9443.7	12894.7	13389.9	13238.3	12192.4	11338.5	9261.8	6583.8
67.5°	4219.1	4486.9	5088.2	7771.2	12020.6	12834.1	12657.3	11383.9	10418.9	8438.2	5709.7
70°	2885.1	3077.2	3486.4	5659.1	10262.2	11095.9	10984.8	10176.3	8968.7	7457.9	4638.5
72.5°	2036.3	2117.1	2379.9	3734.0	7796.5	8706.0	8574.6	8372.5	7205.3	6199.8	3607.7
75°	1525.9	1576.5	1718.0	2415.2	5260.0	6033.0	5911.8	6028.0	5381.2	4694.0	2627.5
77.5°	576.0	626.5	975.2	1541.1	3112.5	3703.7	3582.4	3653.2	2991.3	2369.8	1308.7
80°	156.6	166.7	323.4	732.7	1414.8	1844.3	1677.5	1440.0	1111.6	1091.4	692.2
82.5°	65.7	75.8	146.5	394.1	505.3	505.3	424.4	525.5	424.4	510.3	333.5
85°	25.3	30.3	35.4	101.1	65.7	70.7	75.8	101.1	85.9	106.1	75.8
87.5°	0.0	0.0	0.0	5.1	5.1	10.1	5.1	10.1	15.2	15.2	15.2
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°	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7	4082.7
2.5°	4057.4	4001.8	3921.0	3789.6	3653.2	3577.4	3481.4	3466.2	3365.2	3355.1	3314.6
5°	4082.7	3966.4	3759.3	3506.6	3259.1	3067.0	2925.6	2849.8	2703.2	2703.2	2662.8
7.5°	4102.9	3921.0	3587.5	3213.6	2875.0	2617.3	2425.3	2344.5	2213.1	2203.0	2172.7
10°	4107.9	3865.4	3400.5	2915.5	2501.1	2238.4	2051.4	1960.5	1844.3	1834.2	1814.0
12.5°	4148.3	3835.1	3233.8	2657.8	2233.3	1950.4	1768.5	1692.7	1601.7	1591.6	1571.4
15°	4214.0	3835.1	3092.3	2440.5	1995.9	1733.1	1576.5	1505.7	1440.0	1429.9	1419.8
17.5°	4279.7	3825.0	2950.8	2238.4	1798.8	1561.3	1424.9	1369.3	1318.8	1313.7	1303.6
20°	4340.4	3819.9	2809.4	2066.6	1647.2	1419.8	1313.7	1263.2	1222.8	1222.8	1217.7
22.5°	4401.0	3809.8	2672.9	1904.9	1515.8	1313.7	1222.8	1167.2	1136.9	1136.9	1131.8
25°	4491.9	3809.8	2546.6	1768.5	1409.7	1232.9	1141.9	1101.5	1076.2	1071.2	1071.2
27.5°	4598.0	3840.1	2435.4	1647.2	1318.8	1152.0	1081.3	1040.9	1010.6	1000.5	1005.5
30°	4714.3	3865.4	2334.4	1541.1	1232.9	1091.4	1015.6	975.2	944.9	934.8	939.8
32.5°	4830.5	3895.7	2243.4	1445.1	1147.0	1035.8	960.0	914.6	884.2	879.2	879.2
35°	4956.8	3926.0	2152.5	1364.3	1076.2	980.2	909.5	859.0	838.8	828.7	833.7
37.5°	5083.1	3976.6	2066.6	1288.5	1025.7	929.7	864.0	813.5	798.3	793.3	793.3
40°	5234.7	4052.3	2031.2	1237.9	980.2	884.2	828.7	778.1	763.0	763.0	763.0
42.5°	5361.0	4113.0	2000.9	1182.4	944.9	843.8	793.3	752.9	742.8	737.7	742.8
45°	5487.3	4168.6	1960.5	1131.8	899.4	803.4	763.0	722.5	712.4	712.4	712.4
47.5°	5613.7	4198.9	1904.9	1081.3	859.0	768.0	732.7	697.3	687.2	687.2	687.2
50°	5714.7	4224.1	1824.1	1025.7	813.5	737.7	702.3	667.0	656.9	656.9	656.9
52.5°	5815.8	4229.2	1738.2	960.0	768.0	702.3	672.0	636.7	626.5	621.5	621.5
55°	5906.7	4224.1	1637.1	884.2	717.5	661.9	636.7	606.3	586.1	565.9	576.0
57.5°	5972.4	4219.1	1520.9	808.4	667.0	621.5	611.4	571.0	530.5	480.0	490.1
60°	5947.1	4163.5	1394.6	712.4	611.4	581.1	581.1	525.5	454.8	429.5	434.5
62.5°	5785.5	4006.9	1263.2	611.4	555.8	540.6	535.6	475.0	419.4	394.1	399.2
65°	5300.4	3612.7	1071.2	520.4	500.2	495.2	495.2	439.6	389.1	358.7	363.8
67.5°	4562.7	3031.7	874.1	439.6	444.6	454.8	454.8	404.2	353.7	323.4	328.4
70°	3658.2	2369.8	697.3	379.0	384.0	399.2	409.3	363.8	318.3	288.0	288.0
72.5°	2753.8	1798.8	560.9	318.3	343.6	343.6	358.7	323.4	277.9	247.6	252.6
75°	1995.9	1288.5	444.6	267.8	298.1	293.1	293.1	272.9	237.5	217.3	217.3
77.5°	944.9	677.1	353.7	192.0	232.4	227.4	232.4	217.3	202.1	181.9	187.0
80°	464.9	333.5	227.4	136.4	161.7	166.7	181.9	171.8	166.7	151.6	151.6
82.5°	222.3	131.4	106.1	96.0	111.2	116.2	126.3	126.3	131.4	121.3	121.3
85°	60.6	35.4	45.5	60.6	70.7	75.8	85.9	91.0	91.0	85.9	91.0
87.5°	15.2	15.2	20.2	30.3	35.4	40.4	45.5	45.5	20.2	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)