

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: P841547

Luminaire Tested: **ARCH4-190-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841547
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: ARCH4-190-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA 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: 21628 lumens
Efficiency: N/A
Efficacy: 113.8 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): 190
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



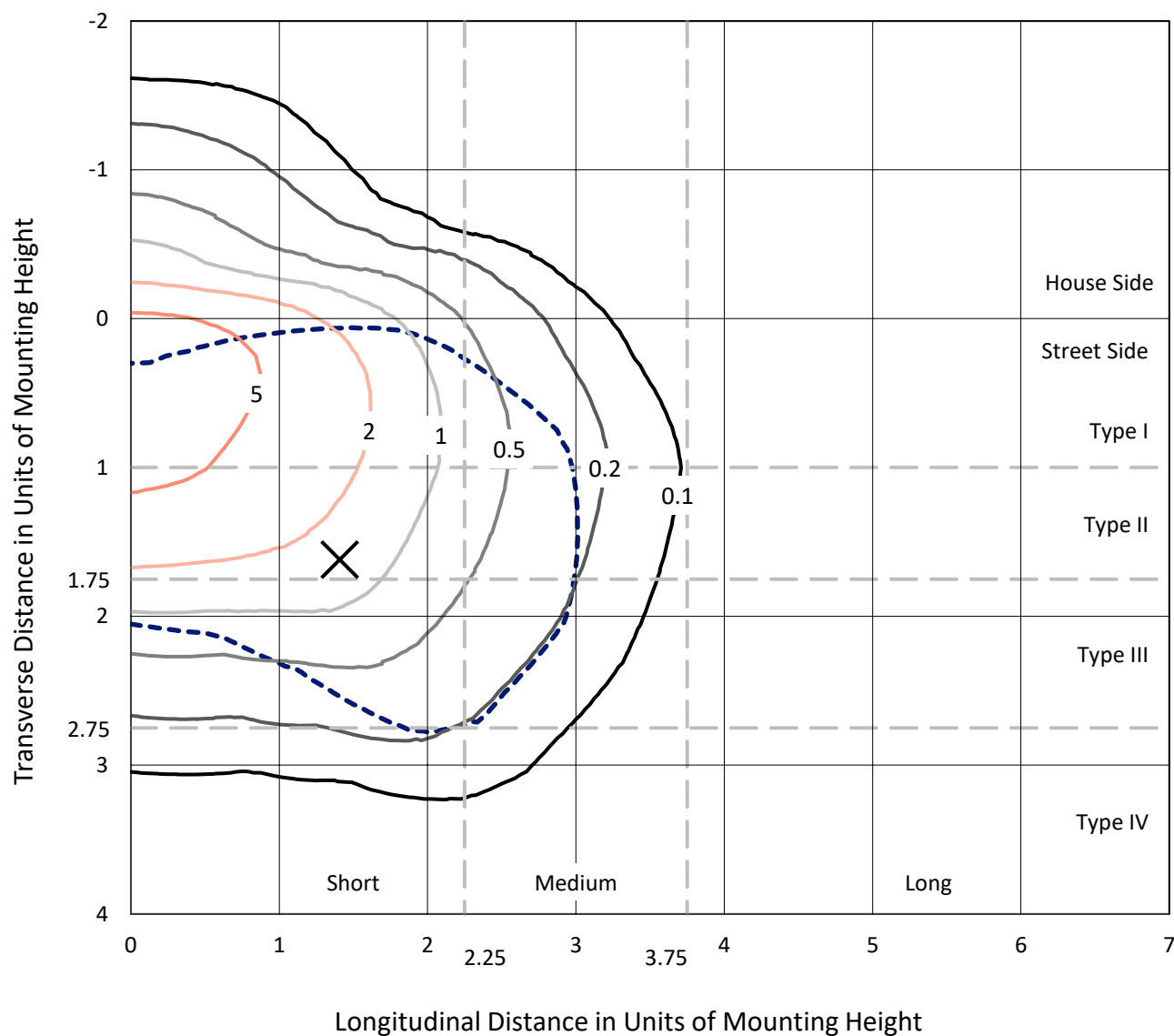
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

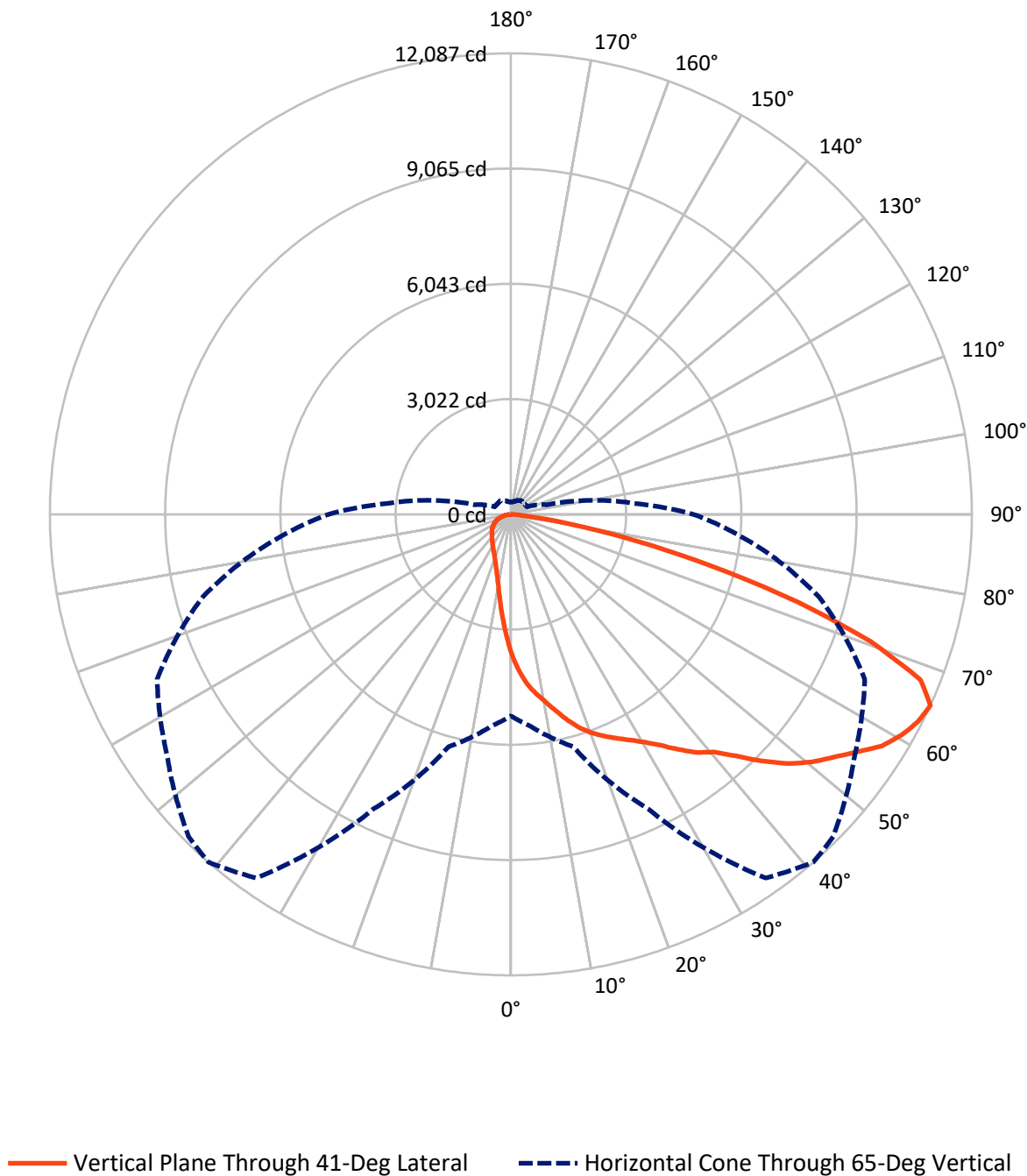


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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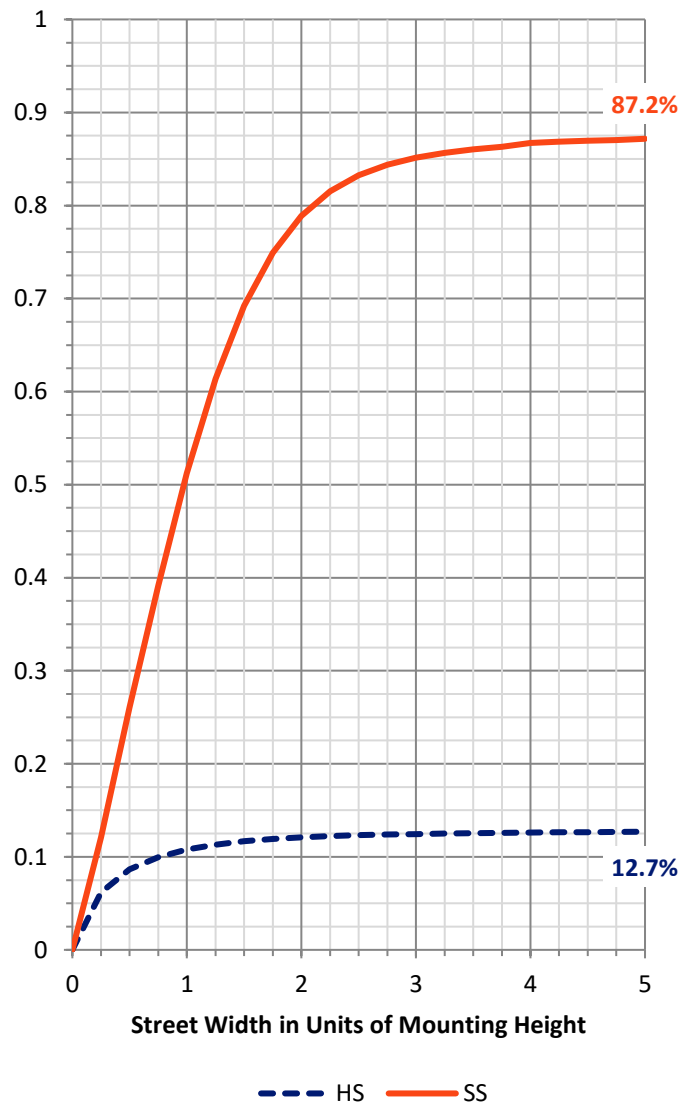
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2776.7	0.0	2776.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	18851.3	0.0	18851.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	21628.0	0.0	21628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.6
10°-20°	1029.6	4.8
20°-30°	1771.3	8.2
30°-40°	2686.5	12.4
40°-50°	3935.8	18.2
50°-60°	4970.1	23.0
60°-70°	4660.3	21.5
70°-80°	2077.1	9.6
80°-90°	153.9	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°	21628.0	100.0
0°-180°	21628.0	100.0

Coefficient of Utilization



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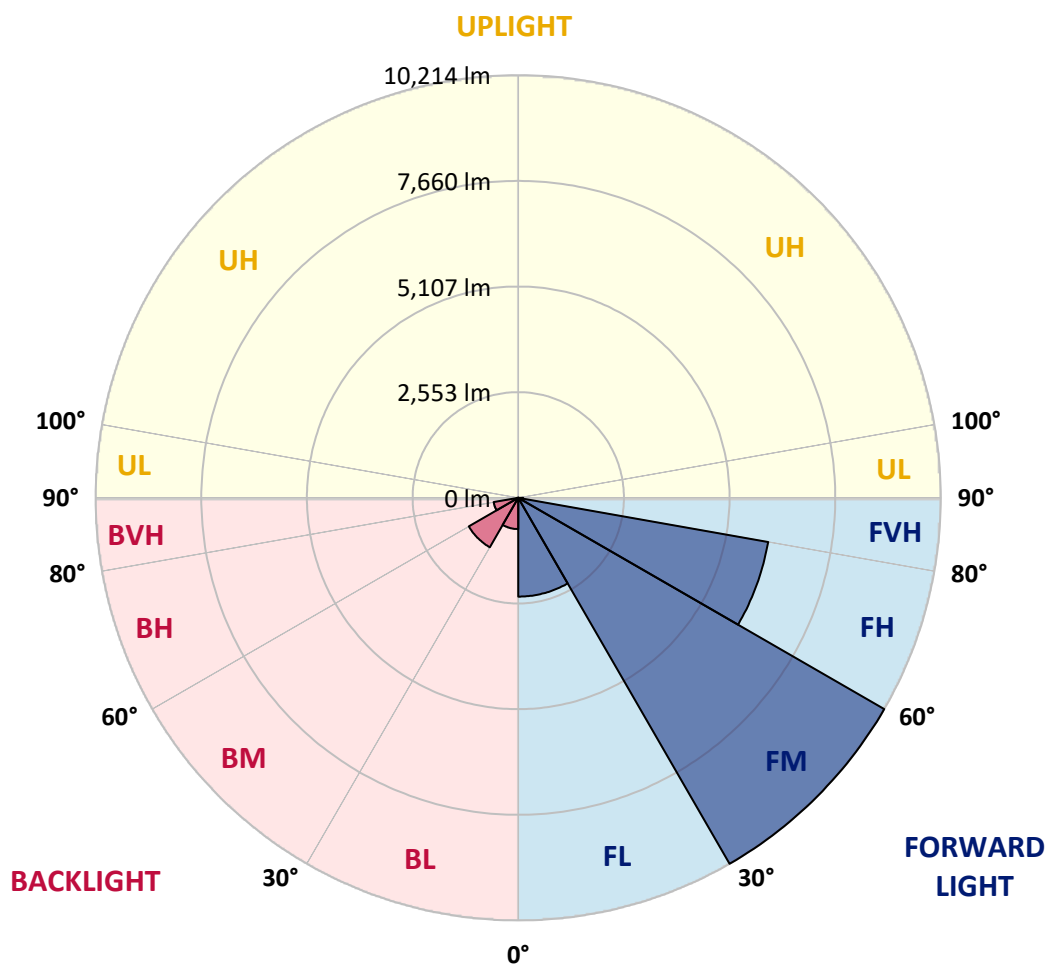
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.5	11.0			
FM	(30°-60°)	10213.6	47.2			
FH	(60°-80°)	6134.3	28.4			G3/7500
FVH	(80°-90°)	114.9	0.5			G2/225
BL	(0°-30°)	755.8	3.5	B2/1000		
BM	(30°-60°)	1378.8	6.4	B2/2500		
BH	(60°-80°)	603.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	38.9	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°	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3
2.5°	4250.9	4237.2	4228.1	4177.9	4177.9	4109.5	4114.0	4050.2	3972.6	3849.5	3717.2
5°	4652.2	4634.0	4611.2	4561.0	4542.8	4474.4	4465.2	4374.0	4241.7	4027.4	3790.2
7.5°	5003.4	4985.2	4953.3	4880.3	4830.1	4748.0	4725.2	4606.6	4460.7	4196.1	3863.2
10°	5322.7	5309.0	5268.0	5176.7	5108.3	5008.0	4966.9	4807.3	4624.9	4333.0	3922.5
12.5°	5646.5	5628.3	5573.6	5496.0	5413.9	5295.3	5245.2	5039.9	4807.3	4483.5	4009.1
15°	5947.6	5920.2	5879.1	5797.0	5724.1	5610.0	5555.3	5313.6	5030.8	4652.2	4123.2
17.5°	6143.7	6120.9	6084.4	6038.8	5979.5	5892.8	5838.1	5600.9	5254.3	4816.4	4241.7
20°	6262.3	6253.1	6239.5	6212.1	6184.7	6125.4	6084.4	5860.9	5496.0	4976.1	4355.8
22.5°	6353.5	6344.4	6339.8	6339.8	6344.4	6321.6	6294.2	6102.6	5728.6	5144.8	4460.7
25°	6494.9	6490.3	6481.2	6472.1	6504.0	6508.6	6499.4	6367.2	6020.5	5368.3	4592.9
27.5°	6691.0	6677.3	6659.1	6650.0	6681.9	6704.7	6722.9	6631.7	6330.7	5596.4	4743.5
30°	6992.0	6951.0	6905.4	6873.4	6896.3	6932.7	6973.8	6919.1	6650.0	5879.1	4898.5
32.5°	7347.8	7297.6	7192.7	7133.4	7192.7	7220.1	7252.0	7224.6	6982.9	6184.7	5053.6
35°	7781.1	7721.8	7612.3	7525.7	7630.6	7571.3	7557.6	7530.2	7297.6	6485.8	5226.9
37.5°	8501.7	8415.1	8241.7	8050.2	8050.2	7922.5	7872.3	7790.2	7580.4	6754.9	5395.7
40°	9336.4	9222.4	8998.9	8716.1	8456.1	8191.6	8159.7	8100.4	7913.4	7065.0	5587.2
42.5°	10253.2	10034.2	9724.1	9382.0	8962.4	8661.4	8588.4	8419.6	8237.2	7379.7	5778.8
45°	11270.3	10814.2	10362.6	10189.3	9496.0	9222.4	9085.5	8779.9	8574.7	7708.1	5979.5
47.5°	11434.5	11078.7	10777.7	10750.3	9993.2	9765.1	9610.1	9172.2	8939.6	8059.3	6189.3
50°	11343.2	11128.9	11160.8	11051.3	10358.1	10207.5	10089.0	9591.8	9299.9	8396.8	6380.9
52.5°	10960.1	11078.7	11261.1	11060.5	10704.7	10581.5	10522.3	10043.3	9637.4	8707.0	6554.2
55°	10504.0	10586.1	10978.4	11224.7	11106.1	10996.6	10941.9	10567.9	9970.4	8967.0	6713.8
57.5°	9838.1	9801.6	10234.9	11197.3	11525.7	11461.8	11402.5	11083.3	10280.5	9154.0	6814.2
60°	8839.2	8761.7	9309.0	10650.0	11662.5	11762.9	11735.5	11425.3	10517.7	9149.4	6773.1
62.5°	7110.6	7302.2	8059.3	9756.0	11721.8	11977.2	11927.0	11452.7	10595.2	8884.9	6513.1
65°	5286.2	5559.9	6303.3	8524.5	11639.7	12086.7	11949.9	11005.7	10234.9	8360.3	5943.0
67.5°	3808.4	4050.2	4592.9	7014.8	10850.6	11585.0	11425.3	10276.0	9404.8	7616.9	5153.9
70°	2604.3	2777.7	3147.1	5108.3	9263.4	10016.0	9915.6	9185.9	8095.8	6732.1	4187.0
72.5°	1838.1	1911.1	2148.2	3370.6	7037.6	7858.6	7740.0	7557.6	6504.0	5596.4	3256.6
75°	1377.4	1423.0	1550.7	2180.2	4748.0	5445.8	5336.4	5441.3	4857.5	4237.2	2371.7
77.5°	520.0	565.6	880.3	1391.1	2809.6	3343.2	3233.8	3297.6	2700.1	2139.1	1181.3
80°	141.4	150.5	291.9	661.3	1277.1	1664.8	1514.3	1299.9	1003.4	985.2	624.9
82.5°	59.3	68.4	132.3	355.8	456.1	456.1	383.1	474.3	383.1	460.7	301.0
85°	22.8	27.4	31.9	91.2	59.3	63.9	68.4	91.2	77.5	95.8	68.4
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	4.6	9.1	13.7	13.7	13.7
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°	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3	3685.3
2.5°	3662.5	3612.3	3539.3	3420.8	3297.6	3229.2	3142.5	3128.9	3037.6	3028.5	2992.0
5°	3685.3	3580.4	3393.4	3165.3	2941.9	2768.5	2640.8	2572.4	2440.1	2440.1	2403.7
7.5°	3703.5	3539.3	3238.3	2900.8	2595.2	2362.6	2189.3	2116.3	1997.7	1988.6	1961.2
10°	3708.1	3489.2	3069.6	2631.7	2257.7	2020.5	1851.8	1769.7	1664.8	1655.6	1637.4
12.5°	3744.6	3461.8	2919.0	2399.1	2016.0	1760.6	1596.4	1527.9	1445.8	1436.7	1418.5
15°	3803.9	3461.8	2791.3	2203.0	1801.6	1564.4	1423.0	1359.2	1299.9	1290.8	1281.6
17.5°	3863.2	3452.7	2663.6	2020.5	1623.7	1409.4	1286.2	1236.0	1190.4	1185.9	1176.7
20°	3917.9	3448.1	2535.9	1865.5	1486.9	1281.6	1185.9	1140.3	1103.8	1103.8	1099.2
22.5°	3972.6	3439.0	2412.8	1719.5	1368.3	1185.9	1103.8	1053.6	1026.2	1026.2	1021.7
25°	4054.7	3439.0	2298.8	1596.4	1272.5	1112.9	1030.8	994.3	971.5	966.9	966.9
27.5°	4150.5	3466.4	2198.4	1486.9	1190.4	1039.9	976.1	939.6	912.2	903.1	907.6
30°	4255.4	3489.2	2107.2	1391.1	1112.9	985.2	916.8	880.3	852.9	843.8	848.3
32.5°	4360.3	3516.5	2025.1	1304.4	1035.3	935.0	866.6	825.5	798.2	793.6	793.6
35°	4474.4	3543.9	1943.0	1231.5	971.5	884.8	821.0	775.4	757.1	748.0	752.6
37.5°	4588.4	3589.5	1865.5	1163.1	925.9	839.2	779.9	734.3	720.6	716.1	716.1
40°	4725.2	3657.9	1833.5	1117.4	884.8	798.2	748.0	702.4	688.7	688.7	688.7
42.5°	4839.2	3712.7	1806.2	1067.3	852.9	761.7	716.1	679.6	670.5	665.9	670.5
45°	4953.3	3762.8	1769.7	1021.7	811.9	725.2	688.7	652.2	643.1	643.1	643.1
47.5°	5067.3	3790.2	1719.5	976.1	775.4	693.3	661.3	629.4	620.3	620.3	620.3
50°	5158.5	3813.0	1646.5	925.9	734.3	665.9	634.0	602.1	592.9	592.9	592.9
52.5°	5249.7	3817.6	1569.0	866.6	693.3	634.0	606.6	574.7	565.6	561.0	561.0
55°	5331.8	3813.0	1477.8	798.2	647.7	597.5	574.7	547.3	529.1	510.8	520.0
57.5°	5391.1	3808.4	1372.9	729.8	602.1	561.0	551.9	515.4	478.9	433.3	442.4
60°	5368.3	3758.3	1258.8	643.1	551.9	524.5	524.5	474.3	410.5	387.7	392.2
62.5°	5222.4	3616.9	1140.3	551.9	501.7	488.0	483.5	428.7	378.6	355.8	360.3
65°	4784.5	3261.1	966.9	469.8	451.5	447.0	447.0	396.8	351.2	323.8	328.4
67.5°	4118.6	2736.6	789.1	396.8	401.4	410.5	410.5	364.9	319.3	291.9	296.5
70°	3302.2	2139.1	629.4	342.1	346.6	360.3	369.4	328.4	287.3	260.0	260.0
72.5°	2485.8	1623.7	506.3	287.3	310.1	310.1	323.8	291.9	250.9	223.5	228.1
75°	1801.6	1163.1	401.4	241.7	269.1	264.5	264.5	246.3	214.4	196.1	196.1
77.5°	852.9	611.2	319.3	173.3	209.8	205.2	209.8	196.1	182.4	164.2	168.8
80°	419.6	301.0	205.2	123.1	146.0	150.5	164.2	155.1	150.5	136.8	136.8
82.5°	200.7	118.6	95.8	86.7	100.3	104.9	114.0	114.0	118.6	109.5	109.5
85°	54.7	31.9	41.0	54.7	63.9	68.4	77.5	82.1	82.1	77.5	82.1
87.5°	13.7	13.7	18.2	27.4	31.9	36.5	41.0	41.0	18.2	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)