

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: P636869

Luminaire Tested: **IFLD-M-SA4B-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636869
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10657.3 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

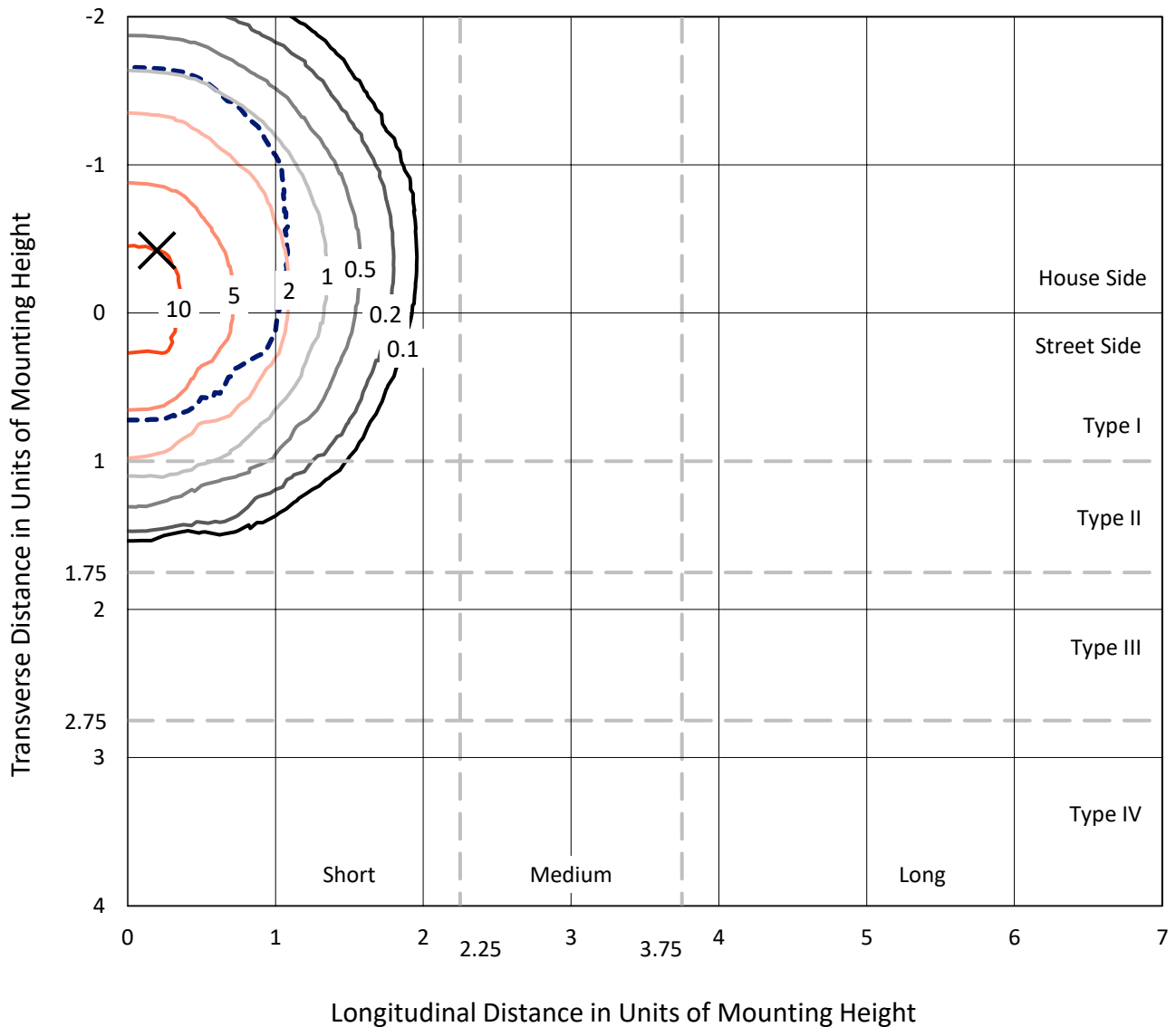
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

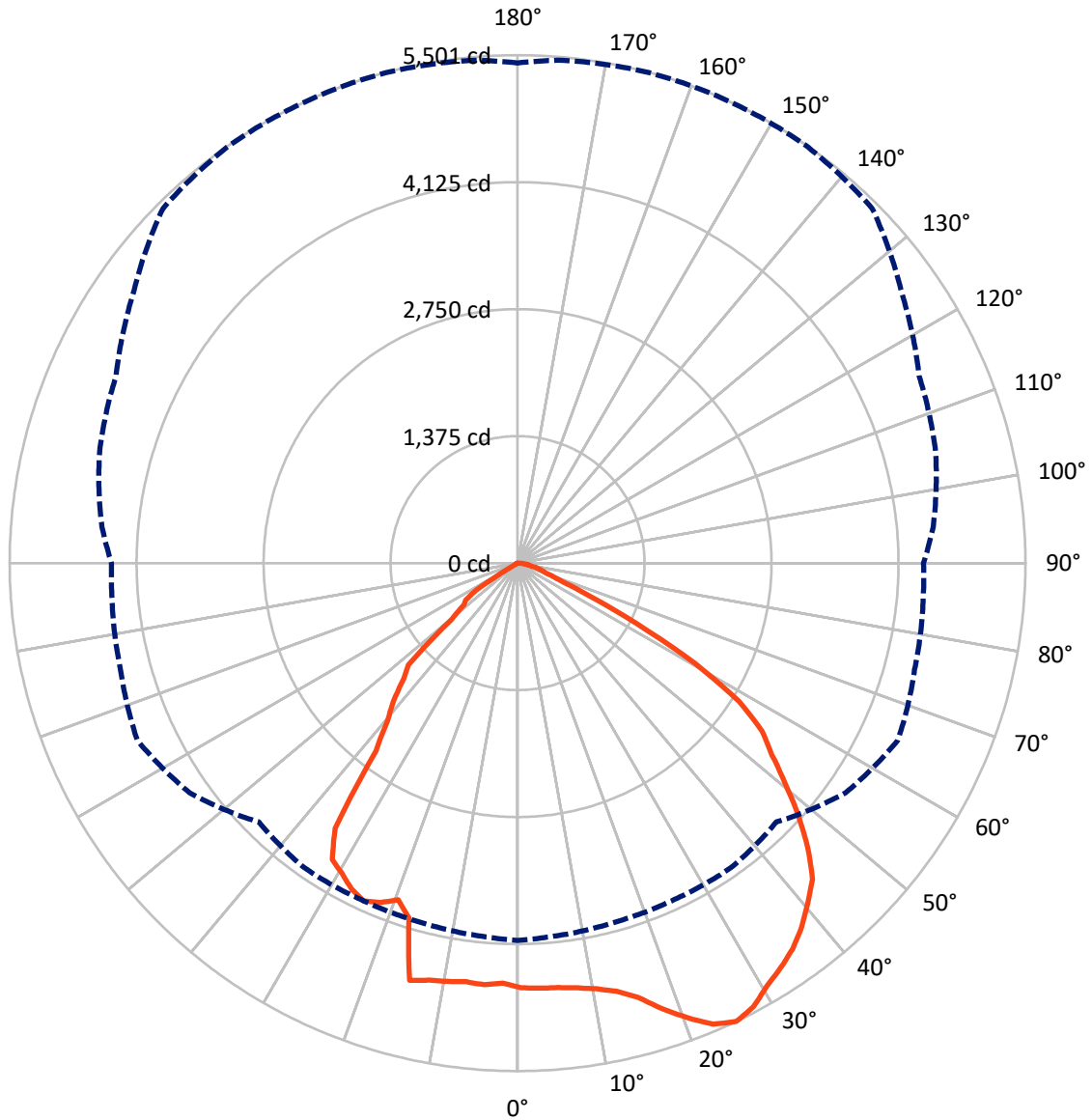
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6597.9	0.0	6597.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4059.3	0.0	4059.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	10657.3	0.0	10657.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	4.1
10°-20°	1347.1	12.6
20°-30°	2129.6	20.0
30°-40°	2405.6	22.6
40°-50°	2252.9	21.1
50°-60°	1553.2	14.6
60°-70°	417.3	3.9
70°-80°	87.0	0.8
80°-90°	23.5	0.2
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°	10657.3	100.0
0°-180°	10657.3	100.0



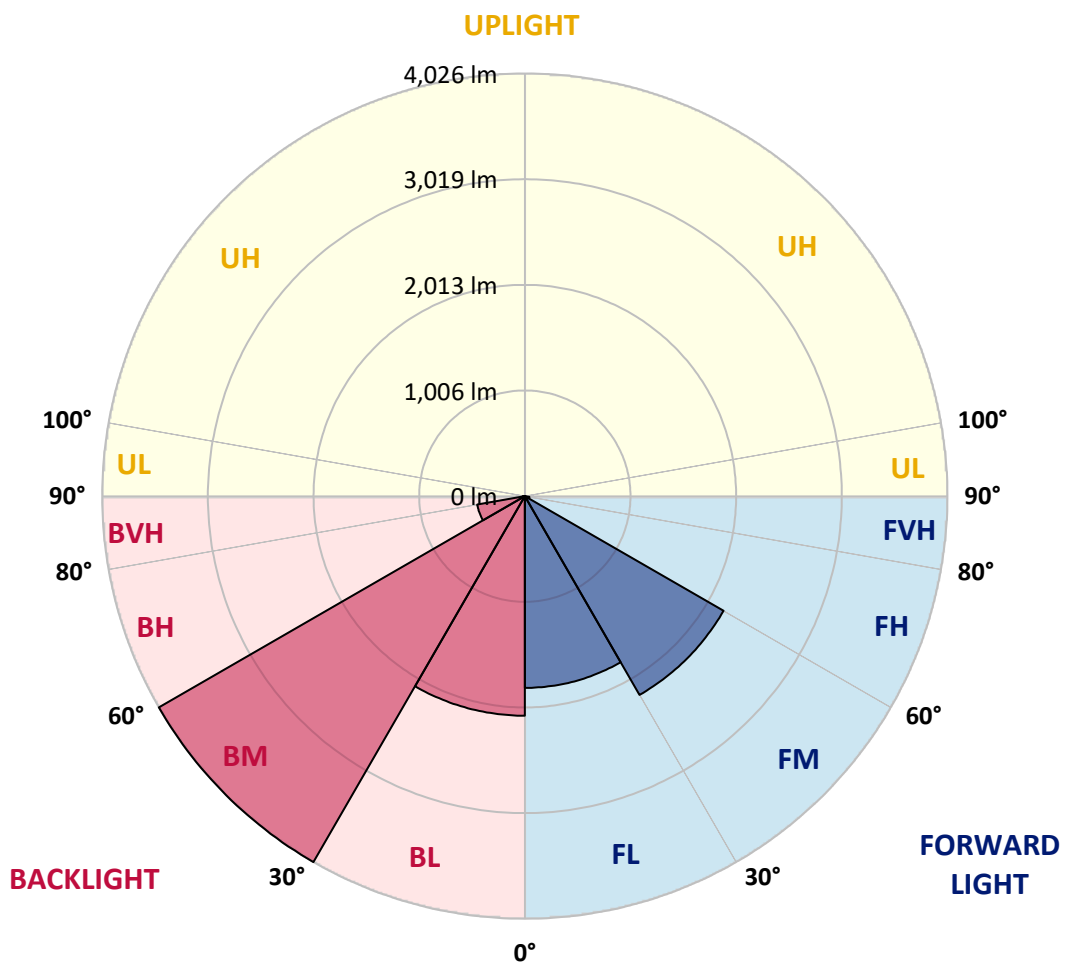
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.3	17.1			
FM (30°-60°)	2186.0	20.5			
FH (60°-80°)	43.8	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2091.5	19.6	B3/2500		
BM (30°-60°)	4025.6	37.8	B3/5000		
BH (60°-80°)	460.4	4.3	B1/500		G1/500
BVH (80°-90°)	20.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4
2.5°	4618.8	4589.0	4560.8	4551.4	4590.6	4632.9	4606.3	4607.8	4598.4	4615.7
5°	4653.2	4612.5	4593.7	4579.6	4585.9	4629.8	4592.2	4606.3	4590.6	4611.0
7.5°	4640.7	4612.5	4593.7	4567.1	4587.5	4639.2	4603.1	4604.7	4596.9	4615.7
10°	4632.9	4612.5	4589.0	4592.2	4615.7	4659.5	4631.3	4647.0	4636.0	4647.0
12.5°	4651.7	4629.8	4617.2	4617.2	4637.6	4687.7	4673.6	4687.7	4683.0	4692.4
15°	4474.7	4495.1	4614.1	4667.3	4708.1	4758.2	4751.9	4766.0	4769.2	4783.2
17.5°	3774.6	3754.2	3744.8	4018.9	4747.2	4902.3	4897.6	4896.0	4880.4	4869.4
20°	3867.0	3859.2	3848.2	3868.6	3950.0	4977.5	5008.8	4816.1	4759.8	4755.1
22.5°	4014.2	4001.7	3961.0	3962.5	3987.6	4327.5	4853.7	4678.3	4659.5	4648.6
25°	4086.3	4061.2	4028.3	4018.9	4026.8	3964.1	4335.3	4543.6	4451.2	4408.9
27.5°	3959.4	3961.0	3934.4	3959.4	3929.7	3647.7	3489.5	4280.5	4277.4	4258.6
30°	3863.9	3859.2	3827.9	3859.2	3654.0	3339.2	3271.8	3992.3	3959.4	3934.4
32.5°	3571.0	3574.1	3665.0	3787.1	3450.4	3201.4	2997.8	3566.3	3878.0	3863.9
35°	2554.5	2560.8	2883.4	3486.4	3141.8	2927.3	2911.6	3082.3	3749.5	3755.8
37.5°	2459.0	2459.0	2451.1	2549.8	2899.1	2816.1	2847.4	2830.2	3434.7	3450.4
40°	2390.1	2376.0	2365.0	2209.9	2015.7	2737.8	2759.7	2681.4	3246.8	3249.9
42.5°	2307.0	2291.4	2294.5	2007.9	1804.3	2543.5	2482.5	2377.5	2933.5	2936.7
45°	2155.1	2181.7	2200.5	1757.3	1741.6	1816.8	2289.8	2224.0	2722.1	2780.0
47.5°	1096.4	1119.8	1718.1	1616.3	1652.4	1614.8	1934.3	1935.9	2264.8	2457.4
50°	994.6	988.3	989.9	942.9	1525.5	1306.2	1398.6	1774.5	1813.7	2089.3
52.5°	927.2	925.6	830.1	737.7	958.5	1149.6	1014.9	1284.3	1348.5	1769.8
55°	686.0	736.1	654.7	693.8	599.9	920.9	916.2	1159.0	1180.9	1419.0
57.5°	6.3	7.8	18.8	527.8	415.0	460.5	632.8	790.9	830.1	1105.8
60°	1.6	3.1	7.8	15.7	269.4	283.5	422.9	457.3	515.3	659.4
62.5°	0.0	0.0	3.1	7.8	14.1	115.9	134.7	147.2	227.1	336.7
65°	0.0	0.0	1.6	4.7	7.8	18.8	32.9	68.9	98.7	122.2
67.5°	0.0	0.0	1.6	3.1	6.3	9.4	18.8	26.6	42.3	72.0
70°	0.0	0.0	1.6	3.1	4.7	7.8	12.5	18.8	25.1	36.0
72.5°	0.0	0.0	1.6	3.1	3.1	9.4	9.4	14.1	18.8	23.5
75°	0.0	0.0	1.6	1.6	3.1	6.3	9.4	11.0	12.5	18.8
77.5°	0.0	0.0	1.6	3.1	4.7	6.3	7.8	12.5	11.0	11.0
80°	0.0	0.0	1.6	4.7	4.7	7.8	9.4	12.5	7.8	7.8
82.5°	0.0	0.0	1.6	6.3	4.7	15.7	15.7	17.2	6.3	6.3
85°	0.0	0.0	4.7	3.1	9.4	15.7	14.1	9.4	7.8	4.7
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	11.0	9.4	3.1	3.1
90°	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°
4598.4	0°	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4	4598.4
4570.2	2.5°	4632.9	4612.5	4654.8	4650.1	4629.8	4620.4	4609.4	4600.0	4531.1
4573.4	5°	4634.5	4603.1	4654.8	4645.4	4642.3	4626.6	4617.2	4631.3	4568.7
4585.9	7.5°	4634.5	4603.1	4659.5	4662.6	4657.9	4645.4	4643.9	4653.2	4601.6
4607.8	10°	4665.8	4653.2	4700.2	4704.9	4698.7	4695.5	4687.7	4681.4	4626.6
4683.0	12.5°	4731.6	4706.5	4759.8	4773.8	4769.2	4777.0	4758.2	4767.6	4711.2
4759.8	15°	4811.4	4813.0	4853.7	4885.1	4881.9	4907.0	4878.8	4903.8	4863.1
4847.5	17.5°	4933.6	4950.8	5008.8	5055.8	5073.0	5091.8	5073.0	5080.8	5022.9
4750.4	20°	4805.2	4869.4	5148.2	5234.3	5270.3	5287.6	5256.2	5265.6	5207.7
4631.3	22.5°	4689.3	4772.3	5019.7	5289.1	5400.3	5434.8	5423.8	5422.3	5400.3
4396.4	25°	4518.6	4686.1	4797.3	5082.4	5431.7	5494.3	5500.6	5499.0	5466.1
4252.3	27.5°	4308.7	4346.3	4634.5	4808.3	5212.4	5450.5	5441.1	5395.6	5351.8
3953.1	30°	4040.9	4211.6	4341.6	4618.8	4928.9	5315.8	5315.8	5281.3	5235.9
3846.6	32.5°	3904.6	4125.4	4246.0	4346.3	4611.0	5165.4	5228.1	5192.0	5156.0
3763.6	35°	3832.5	3865.4	4147.4	4238.2	4462.2	4875.7	5129.4	5093.4	5066.7
3542.8	37.5°	3674.4	3751.1	3882.7	4125.4	4194.3	4639.2	4997.8	4979.0	4947.7
3256.2	40°	3322.0	3527.1	3729.2	3959.4	4031.5	4335.3	4838.1	4845.9	4803.6
2950.8	42.5°	3113.7	3253.0	3569.4	3724.5	3918.7	4139.5	4683.0	4695.5	4665.8
2795.7	45°	2869.3	3024.4	3246.8	3528.7	3793.4	3870.1	4408.9	4540.5	4515.4
2487.2	47.5°	2645.4	2770.6	3043.2	3328.2	3621.1	3610.1	4094.1	4341.6	4307.1
2250.7	50°	2327.4	2546.7	2675.1	2936.7	3373.6	3403.4	3758.9	4108.2	4080.0
1912.4	52.5°	1962.5	2238.1	2484.0	2723.7	3123.0	3193.5	3447.3	3870.1	3851.3
1461.3	55°	1715.0	1915.5	2192.7	2385.4	2819.2	3007.1	3213.9	3643.0	3633.6
1201.3	57.5°	1220.1	1606.9	1835.6	2105.0	2333.7	2673.5	2827.0	3181.0	3093.3
665.6	60°	827.0	1008.6	1287.4	1577.2	1730.7	2070.5	2213.1	2496.6	2473.1
397.8	62.5°	437.0	604.6	803.5	949.1	1060.3	1390.8	1450.3	1755.7	1747.9
159.8	65°	192.6	255.3	435.4	510.6	624.9	778.4	830.1	939.7	913.1
78.3	67.5°	100.2	151.9	245.9	302.3	380.6	438.5	480.8	515.3	537.2
51.7	70°	61.1	111.2	151.9	209.9	261.6	308.5	341.4	388.4	416.6
26.6	72.5°	45.4	70.5	104.9	161.3	189.5	244.3	277.2	311.7	336.7
21.9	75°	25.1	47.0	84.6	126.9	151.9	198.9	228.7	252.2	260.0
12.5	77.5°	15.7	36.0	70.5	98.7	119.0	161.3	153.5	175.4	194.2
9.4	80°	11.0	26.6	54.8	81.4	83.0	103.4	122.2	141.0	153.5
6.3	82.5°	7.8	21.9	40.7	62.6	54.8	79.9	95.5	109.6	79.9
4.7	85°	6.3	15.7	20.4	37.6	31.3	56.4	48.6	47.0	31.3
3.1	87.5°	4.7	7.8	14.1	17.2	12.5	12.5	15.7	18.8	15.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4598.4
4484.1
4515.4
4542.0
4581.2
4661.1
4795.8
4972.8
5167.0
5329.9
5416.0
5317.3
5218.7
5126.2
5029.1
4916.4
4794.2
4662.6
4518.6
4332.2
4084.7
3863.9
3644.6
3083.9
2474.6
1749.5
902.1
537.2
418.2
341.4
255.3
197.3
155.1
58.0
31.3
15.7
0.0

(END OF REPORT)