

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: P636900

Luminaire Tested: **IFLD-M-SA4D-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-930-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14756.7 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

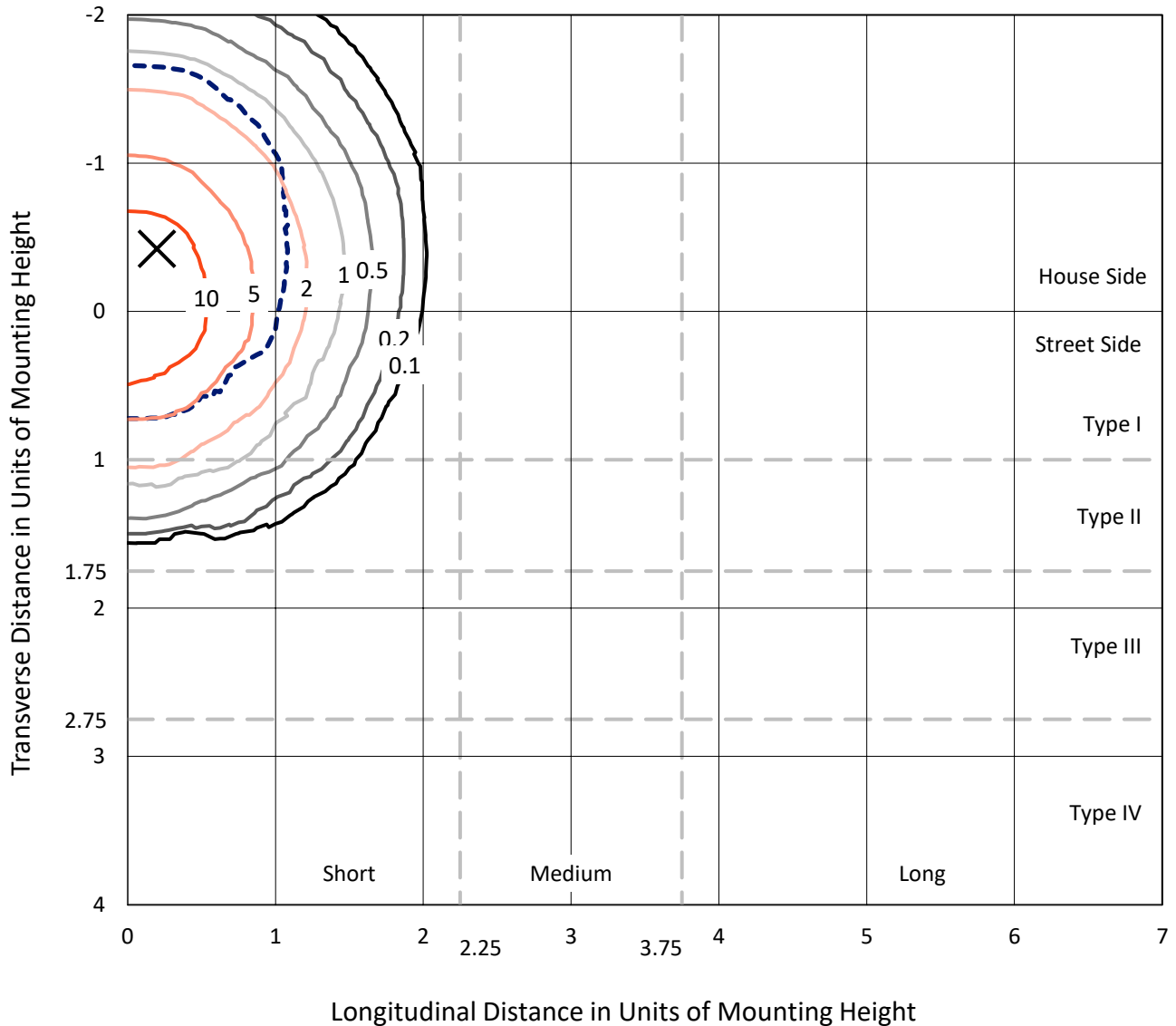
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

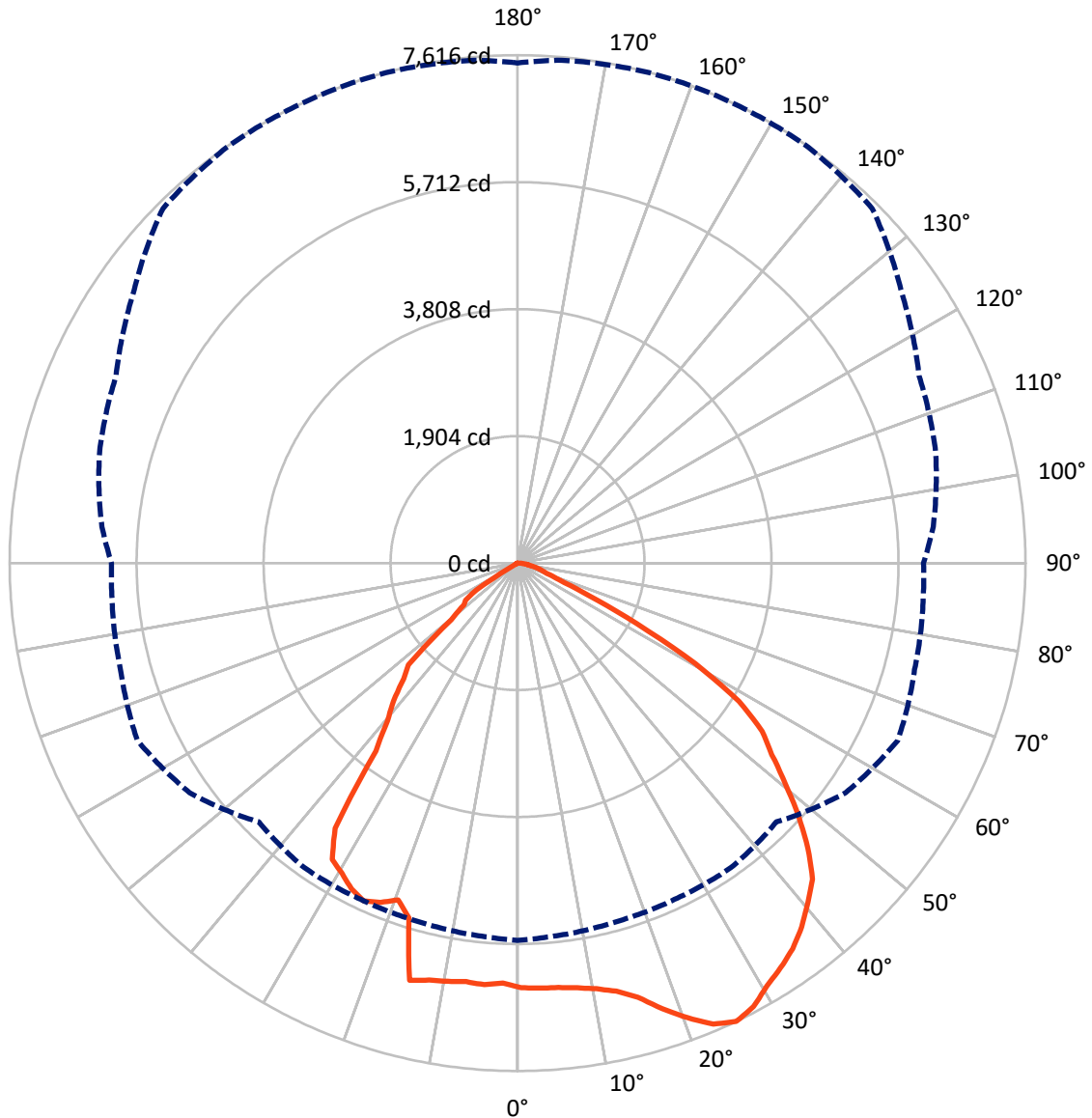
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.9 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	9135.9	0.0	9135.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5620.8	0.0	5620.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	14756.7	0.0	14756.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	4.1
10°-20°	1865.2	12.6
20°-30°	2948.8	20.0
30°-40°	3330.9	22.6
40°-50°	3119.5	21.1
50°-60°	2150.7	14.6
60°-70°	577.8	3.9
70°-80°	120.4	0.8
80°-90°	32.6	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°	14756.7	100.0
0°-180°	14756.7	100.0

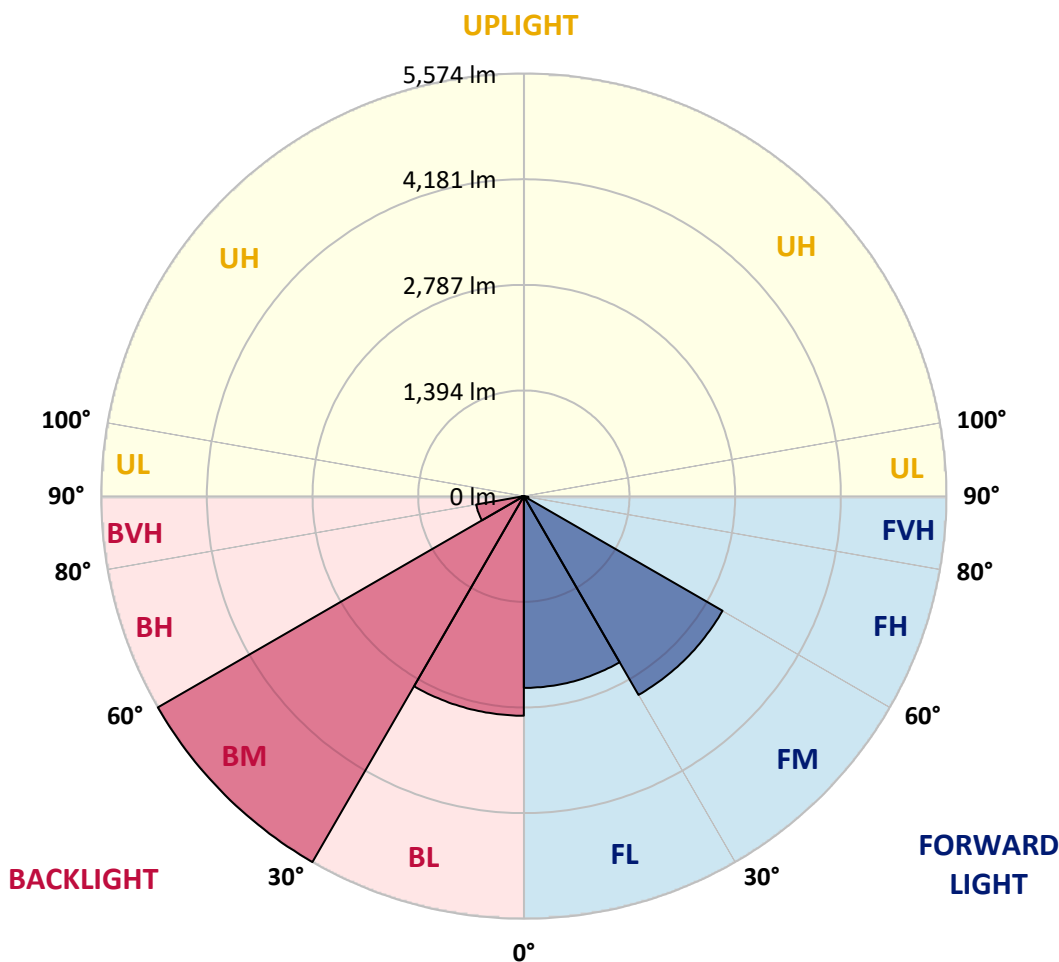


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.8	17.1			
FM	(30°-60°)	3026.9	20.5			
FH	(60°-80°)	60.7	0.4			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	2896.0	19.6	B4/5000		
BM	(30°-60°)	5574.1	37.8	B4/8500		
BH	(60°-80°)	637.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	28.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3
2.5°	6395.5	6354.3	6315.2	6302.2	6356.4	6415.0	6378.1	6380.3	6367.3	6391.1
5°	6443.2	6386.8	6360.8	6341.2	6349.9	6410.6	6358.6	6378.1	6356.4	6384.6
7.5°	6425.8	6386.8	6360.8	6323.9	6352.1	6423.7	6373.8	6375.9	6365.1	6391.1
10°	6415.0	6386.8	6354.3	6358.6	6391.1	6451.8	6412.8	6434.5	6419.3	6434.5
12.5°	6441.0	6410.6	6393.3	6393.3	6421.5	6490.9	6471.4	6490.9	6484.4	6497.4
15°	6195.9	6224.1	6389.0	6462.7	6519.1	6588.5	6579.8	6599.3	6603.7	6623.2
17.5°	5226.5	5198.3	5185.3	5564.9	6573.3	6788.0	6781.5	6779.3	6757.6	6742.5
20°	5354.5	5343.6	5328.5	5356.7	5469.4	6892.1	6935.5	6668.7	6590.6	6584.1
22.5°	5558.3	5541.0	5484.6	5486.8	5521.5	5992.1	6720.8	6477.9	6451.8	6436.7
25°	5658.1	5623.4	5577.9	5564.9	5575.7	5488.9	6002.9	6291.4	6163.4	6104.9
27.5°	5482.4	5484.6	5447.7	5482.4	5441.2	5050.9	4831.8	5927.0	5922.7	5896.7
30°	5350.2	5343.6	5300.3	5343.6	5059.5	4623.6	4530.4	5528.0	5482.4	5447.7
32.5°	4944.6	4948.9	5074.7	5243.9	4777.6	4432.8	4150.9	4938.1	5369.7	5350.2
35°	3537.1	3545.8	3992.6	4827.5	4350.4	4053.3	4031.6	4268.0	5191.8	5200.5
37.5°	3404.8	3404.8	3394.0	3530.6	4014.2	3899.3	3942.7	3918.8	4755.9	4777.6
40°	3309.4	3289.9	3274.7	3060.0	2791.1	3790.9	3821.2	3712.8	4495.7	4500.0
42.5°	3194.5	3172.8	3177.1	2780.3	2498.3	3521.9	3437.4	3292.1	4062.0	4066.3
45°	2984.1	3021.0	3047.0	2433.3	2411.6	2515.7	3170.6	3079.5	3769.2	3849.4
47.5°	1518.1	1550.6	2379.1	2238.1	2288.0	2235.9	2678.3	2680.5	3135.9	3402.7
50°	1377.1	1368.4	1370.6	1305.6	2112.3	1808.7	1936.6	2457.1	2511.3	2893.0
52.5°	1283.9	1281.7	1149.4	1021.5	1327.2	1591.8	1405.3	1778.3	1867.2	2450.6
55°	949.9	1019.3	906.5	960.7	830.6	1275.2	1268.7	1604.8	1635.2	1964.8
57.5°	8.7	10.8	26.0	730.8	574.7	637.6	876.2	1095.2	1149.4	1531.1
60°	2.2	4.3	10.8	21.7	373.0	392.5	585.5	633.3	713.5	913.0
62.5°	0.0	0.0	4.3	10.8	19.5	160.5	186.5	203.9	314.5	466.3
65°	0.0	0.0	2.2	6.5	10.8	26.0	45.5	95.4	136.6	169.2
67.5°	0.0	0.0	2.2	4.3	8.7	13.0	26.0	36.9	58.6	99.8
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.3	26.0	34.7	49.9
72.5°	0.0	0.0	2.2	4.3	4.3	13.0	13.0	19.5	26.0	32.5
75°	0.0	0.0	2.2	2.2	4.3	8.7	13.0	15.2	17.3	26.0
77.5°	0.0	0.0	2.2	4.3	6.5	8.7	10.8	17.3	15.2	15.2
80°	0.0	0.0	2.2	6.5	6.5	10.8	13.0	17.3	10.8	10.8
82.5°	0.0	0.0	2.2	8.7	6.5	21.7	21.7	23.9	8.7	8.7
85°	0.0	0.0	6.5	4.3	13.0	21.7	19.5	13.0	10.8	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	15.2	13.0	4.3	4.3
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°
6367.3	0°	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3
6328.2	2.5°	6415.0	6386.8	6445.3	6438.8	6410.6	6397.6	6382.4	6369.4	6274.0
6332.6	5°	6417.1	6373.8	6445.3	6432.3	6428.0	6406.3	6393.3	6412.8	6326.1
6349.9	7.5°	6417.1	6373.8	6451.8	6456.2	6449.7	6432.3	6430.2	6443.2	6371.6
6380.3	10°	6460.5	6443.2	6508.2	6514.7	6506.1	6501.7	6490.9	6482.2	6406.3
6484.4	12.5°	6551.6	6516.9	6590.6	6610.2	6603.7	6614.5	6588.5	6601.5	6523.4
6590.6	15°	6662.2	6664.4	6720.8	6764.1	6759.8	6794.5	6755.5	6790.2	6733.8
6712.1	17.5°	6831.4	6855.2	6935.5	7000.5	7024.4	7050.4	7024.4	7035.2	6955.0
6577.6	20°	6653.5	6742.5	7128.5	7247.8	7297.6	7321.5	7278.1	7291.1	7210.9
6412.8	22.5°	6493.1	6608.0	6950.6	7323.7	7477.6	7525.3	7510.2	7508.0	7477.6
6087.5	25°	6256.7	6488.7	6642.7	7037.4	7521.0	7607.8	7616.4	7614.3	7568.7
5888.0	27.5°	5966.1	6018.1	6417.1	6657.9	7217.4	7547.0	7534.0	7471.1	7410.4
5473.8	30°	5595.2	5831.6	6011.6	6395.5	6824.9	7360.5	7360.5	7312.8	7249.9
5326.3	32.5°	5406.5	5712.3	5879.3	6018.1	6384.6	7152.3	7239.1	7189.2	7139.3
5211.4	35°	5306.8	5352.3	5742.7	5868.5	6178.6	6751.1	7102.5	7052.6	7015.7
4905.6	37.5°	5087.7	5194.0	5376.2	5712.3	5807.7	6423.7	6920.3	6894.3	6850.9
4508.7	40°	4599.8	4883.9	5163.6	5482.4	5582.2	6002.9	6699.1	6709.9	6651.4
4085.8	42.5°	4311.4	4504.4	4942.4	5157.1	5426.1	5731.8	6484.4	6501.7	6460.5
3871.1	45°	3973.0	4187.7	4495.7	4886.1	5252.6	5358.8	6104.9	6287.0	6252.3
3443.9	47.5°	3662.9	3836.4	4213.8	4608.5	5014.0	4998.8	5669.0	6011.6	5963.9
3116.4	50°	3222.7	3526.3	3704.1	4066.3	4671.4	4712.6	5204.9	5688.5	5649.4
2648.0	52.5°	2717.4	3099.1	3439.5	3771.3	4324.4	4422.0	4773.3	5358.8	5332.8
2023.4	55°	2374.7	2652.3	3036.2	3302.9	3903.6	4163.9	4450.1	5044.4	5031.4
1663.4	57.5°	1689.4	2225.1	2541.7	2914.7	3231.3	3702.0	3914.5	4404.6	4283.2
921.7	60°	1145.1	1396.6	1782.7	2183.9	2396.4	2867.0	3064.4	3456.9	3424.4
550.8	62.5°	605.1	837.1	1112.5	1314.2	1468.2	1925.8	2008.2	2431.1	2420.3
221.2	65°	266.7	353.5	602.9	707.0	865.3	1077.8	1149.4	1301.2	1264.3
108.4	67.5°	138.8	210.4	340.5	418.6	527.0	607.2	665.8	713.5	743.9
71.6	70°	84.6	154.0	210.4	290.6	362.2	427.2	472.8	537.8	576.9
36.9	72.5°	62.9	97.6	145.3	223.4	262.4	338.3	383.9	431.6	466.3
30.4	75°	34.7	65.1	117.1	175.7	210.4	275.4	316.6	349.2	360.0
17.3	77.5°	21.7	49.9	97.6	136.6	164.8	223.4	212.5	242.9	268.9
13.0	80°	15.2	36.9	75.9	112.8	114.9	143.1	169.2	195.2	212.5
8.7	82.5°	10.8	30.4	56.4	86.7	75.9	110.6	132.3	151.8	110.6
6.5	85°	8.7	21.7	28.2	52.0	43.4	78.1	67.2	65.1	43.4
4.3	87.5°	6.5	10.8	19.5	23.9	17.3	17.3	21.7	26.0	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6367.3
6209.0
6252.3
6289.2
6343.4
6454.0
6640.5
6885.6
7154.5
7380.0
7499.3
7362.7
7226.1
7098.1
6963.7
6807.5
6638.4
6456.2
6256.7
5998.6
5655.9
5350.2
5046.5
4270.1
3426.5
2422.4
1249.2
743.9
579.0
472.8
353.5
273.3
214.7
80.2
43.4
21.7
0.0

(END OF REPORT)