

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: P638313

Luminaire Tested: **IFLD-S-SA6A-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14652.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

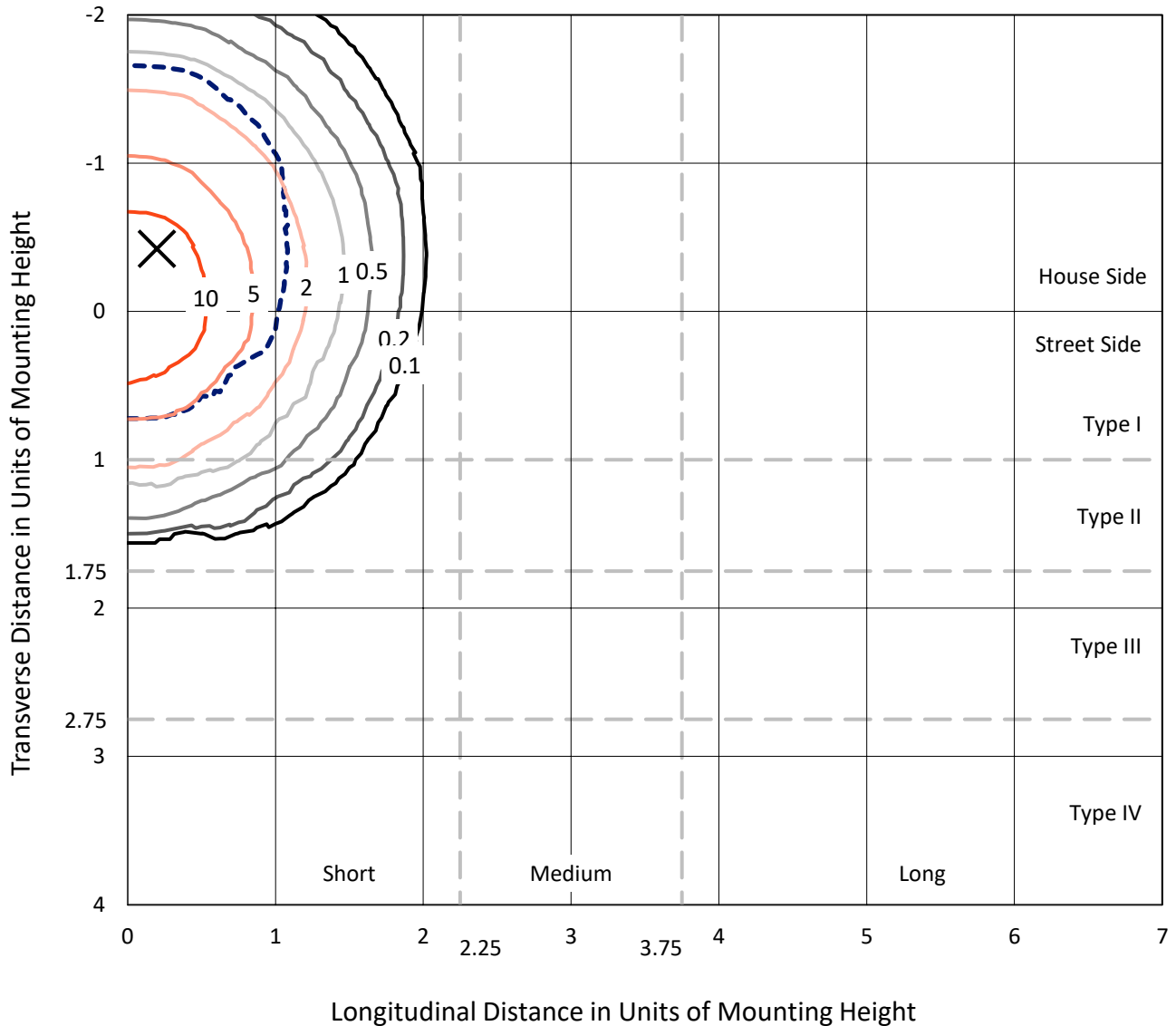
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

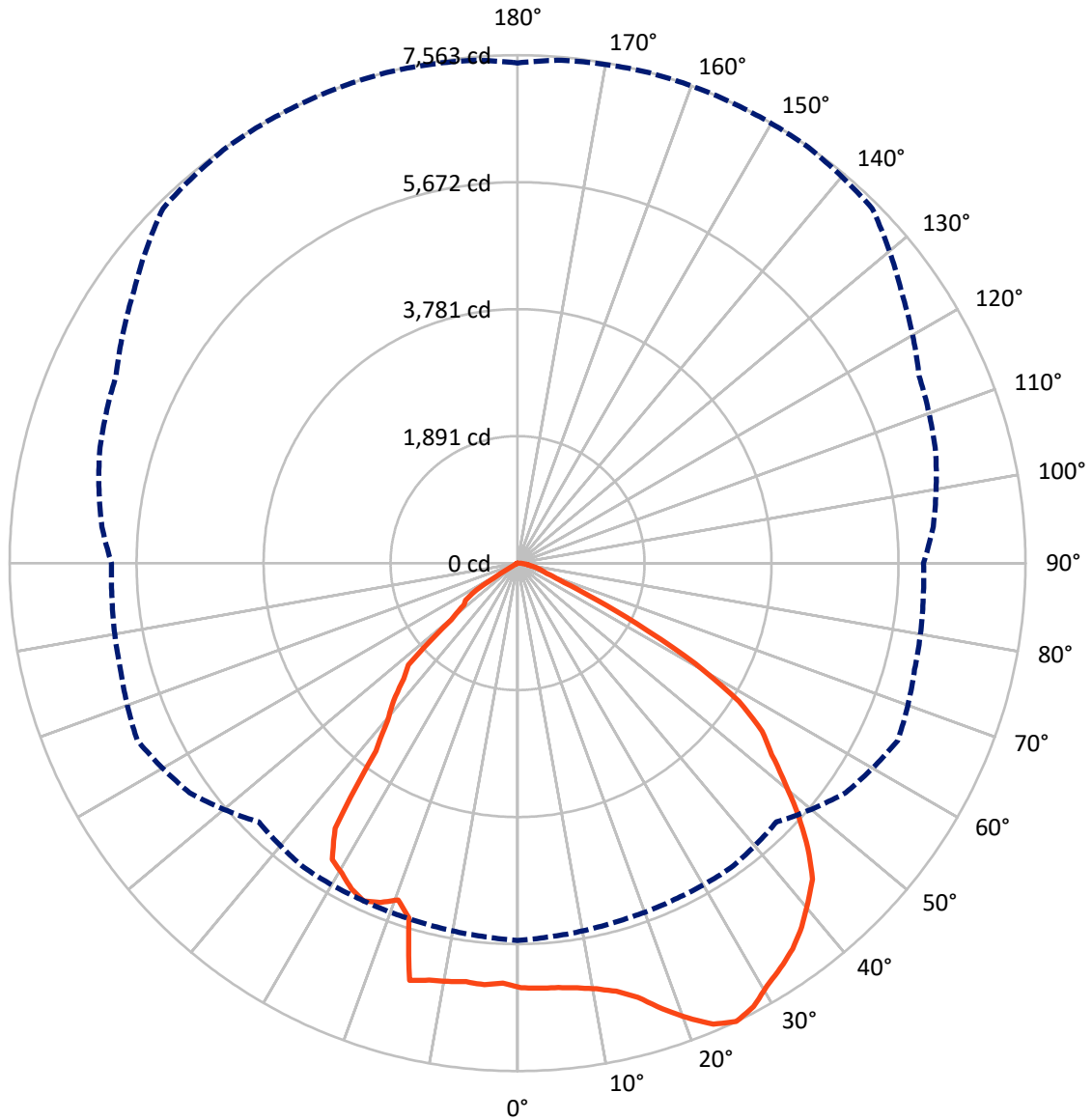
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 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	9071.6	0.0	9071.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5581.3	0.0	5581.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	14652.9	0.0	14652.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.6	4.1
10°-20°	1852.1	12.6
20°-30°	2928.0	20.0
30°-40°	3307.5	22.6
40°-50°	3097.5	21.1
50°-60°	2135.5	14.6
60°-70°	573.7	3.9
70°-80°	119.6	0.8
80°-90°	32.3	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°	14652.9	100.0
0°-180°	14652.9	100.0



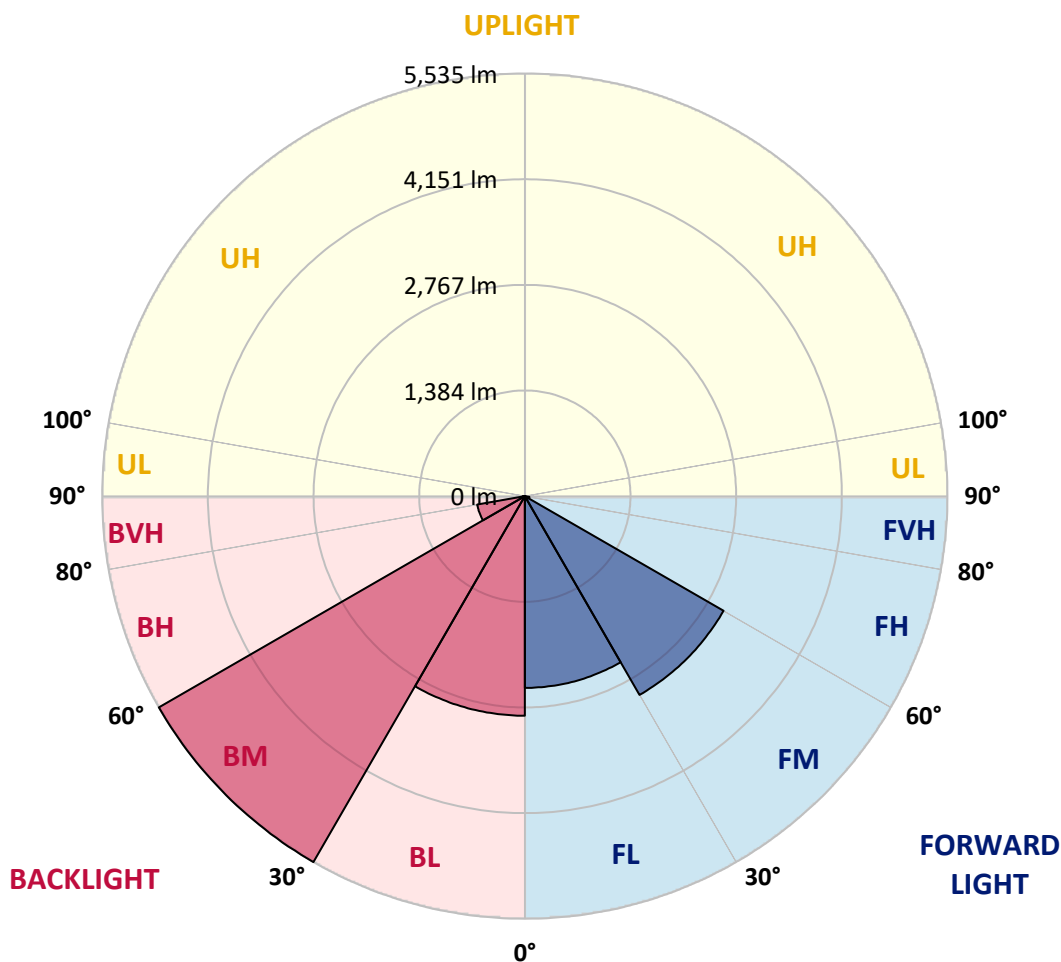
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2511.0	17.1			
FM (30°-60°)	3005.6	20.5			
FH (60°-80°)	60.2	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	2875.7	19.6	B4/5000		
BM (30°-60°)	5534.9	37.8	B4/8500		
BH (60°-80°)	633.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.0	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°	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5
2.5°	6350.4	6309.5	6270.8	6257.8	6311.7	6369.8	6333.2	6335.4	6322.5	6346.1
5°	6397.8	6341.8	6316.0	6296.6	6305.2	6365.5	6313.8	6333.2	6311.7	6339.7
7.5°	6380.6	6341.8	6316.0	6279.4	6307.4	6378.4	6328.9	6331.1	6320.3	6346.1
10°	6369.8	6341.8	6309.5	6313.8	6346.1	6406.4	6367.7	6389.2	6374.1	6389.2
12.5°	6395.7	6365.5	6348.3	6348.3	6376.3	6445.2	6425.8	6445.2	6438.7	6451.7
15°	6152.3	6180.3	6344.0	6417.2	6473.2	6542.1	6533.5	6552.9	6557.2	6576.6
17.5°	5189.8	5161.8	5148.8	5525.7	6527.0	6740.2	6733.8	6731.6	6710.1	6695.0
20°	5316.8	5306.0	5291.0	5319.0	5430.9	6843.6	6886.6	6621.8	6544.3	6537.8
22.5°	5519.2	5502.0	5446.0	5448.2	5482.6	5949.9	6673.5	6432.3	6406.4	6391.4
25°	5618.3	5583.8	5538.6	5525.7	5536.5	5450.3	5960.7	6247.1	6120.0	6061.9
27.5°	5443.9	5446.0	5409.4	5443.9	5402.9	5015.3	4797.8	5885.3	5881.0	5855.2
30°	5312.5	5306.0	5263.0	5306.0	5023.9	4591.1	4498.5	5489.1	5443.9	5409.4
32.5°	4909.8	4914.1	5039.0	5207.0	4744.0	4401.6	4121.7	4903.3	5331.9	5312.5
35°	3512.2	3520.8	3964.5	4793.5	4319.8	4024.7	4003.2	4237.9	5155.3	5163.9
37.5°	3380.9	3380.9	3370.1	3505.8	3986.0	3871.9	3914.9	3891.2	4722.5	4744.0
40°	3286.1	3266.7	3251.7	3038.5	2771.5	3764.2	3794.3	3686.7	4464.0	4468.4
42.5°	3172.0	3150.5	3154.8	2760.7	2480.7	3497.2	3413.2	3268.9	4033.4	4037.7
45°	2963.1	2999.7	3025.6	2416.1	2394.6	2498.0	3148.3	3057.9	3742.7	3822.3
47.5°	1507.4	1539.7	2362.3	2222.3	2271.9	2220.2	2659.5	2661.6	3113.9	3378.7
50°	1367.4	1358.8	1361.0	1296.4	2097.4	1796.0	1923.0	2439.8	2493.7	2872.7
52.5°	1274.8	1272.7	1141.3	1014.3	1317.9	1580.6	1395.4	1765.8	1854.1	2433.4
55°	943.2	1012.1	900.1	954.0	824.8	1266.2	1259.8	1593.5	1623.7	1951.0
57.5°	8.6	10.8	25.8	725.7	570.7	633.1	870.0	1087.5	1141.3	1520.3
60°	2.2	4.3	10.8	21.5	370.4	389.8	581.4	628.8	708.5	906.6
62.5°	0.0	0.0	4.3	10.8	19.4	159.4	185.2	202.4	312.2	463.0
65°	0.0	0.0	2.2	6.5	10.8	25.8	45.2	94.8	135.7	168.0
67.5°	0.0	0.0	2.2	4.3	8.6	12.9	25.8	36.6	58.1	99.1
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.2	25.8	34.5	49.5
72.5°	0.0	0.0	2.2	4.3	4.3	12.9	12.9	19.4	25.8	32.3
75°	0.0	0.0	2.2	2.2	4.3	8.6	12.9	15.1	17.2	25.8
77.5°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	17.2	15.1	15.1
80°	0.0	0.0	2.2	6.5	6.5	10.8	12.9	17.2	10.8	10.8
82.5°	0.0	0.0	2.2	8.6	6.5	21.5	21.5	23.7	8.6	8.6
85°	0.0	0.0	6.5	4.3	12.9	21.5	19.4	12.9	10.8	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	15.1	12.9	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°
6322.5	0°	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5	6322.5
6283.7	2.5°	6369.8	6341.8	6400.0	6393.5	6365.5	6352.6	6337.5	6324.6	6229.9
6288.0	5°	6372.0	6328.9	6400.0	6387.1	6382.7	6361.2	6348.3	6367.7	6281.5
6305.2	7.5°	6372.0	6328.9	6406.4	6410.7	6404.3	6387.1	6384.9	6397.8	6326.8
6335.4	10°	6415.0	6397.8	6462.4	6468.9	6460.3	6456.0	6445.2	6436.6	6361.2
6438.7	12.5°	6505.5	6471.0	6544.3	6563.6	6557.2	6567.9	6542.1	6555.0	6477.5
6544.3	15°	6615.3	6617.5	6673.5	6716.5	6712.2	6746.7	6707.9	6742.4	6686.4
6664.8	17.5°	6783.3	6807.0	6886.6	6951.3	6974.9	7000.8	6974.9	6985.7	6906.0
6531.3	20°	6606.7	6695.0	7078.3	7196.7	7246.3	7270.0	7226.9	7239.8	7160.1
6367.7	22.5°	6447.4	6561.5	6901.7	7272.1	7425.0	7472.4	7457.3	7455.2	7425.0
6044.7	25°	6212.6	6443.0	6595.9	6987.9	7468.1	7554.2	7562.8	7560.7	7515.4
5846.5	27.5°	5924.1	5975.8	6372.0	6611.0	7166.6	7493.9	7481.0	7418.5	7358.2
5435.2	30°	5555.8	5790.6	5969.3	6350.4	6776.8	7308.7	7308.7	7261.3	7198.9
5288.8	32.5°	5368.5	5672.1	5837.9	5975.8	6339.7	7102.0	7188.1	7138.6	7089.1
5174.7	35°	5269.4	5314.7	5702.3	5827.2	6135.1	6703.6	7052.5	7002.9	6966.3
4871.0	37.5°	5051.9	5157.5	5338.3	5672.1	5766.9	6378.4	6871.6	6845.7	6802.7
4477.0	40°	4567.4	4849.5	5127.3	5443.9	5542.9	5960.7	6651.9	6662.7	6604.6
4057.1	42.5°	4281.0	4472.7	4907.7	5120.8	5387.9	5691.5	6438.7	6456.0	6415.0
3843.9	45°	3945.1	4158.3	4464.0	4851.7	5215.6	5321.1	6061.9	6242.8	6208.3
3419.6	47.5°	3637.1	3809.4	4184.1	4576.0	4978.7	4963.6	5629.0	5969.3	5921.9
3094.5	50°	3200.0	3501.5	3678.0	4037.7	4638.5	4679.4	5168.2	5648.4	5609.7
2629.3	52.5°	2698.2	3077.2	3415.3	3744.8	4293.9	4390.8	4739.7	5321.1	5295.3
2009.1	55°	2358.0	2633.6	3014.8	3279.7	3876.2	4134.6	4418.8	5008.9	4995.9
1651.7	57.5°	1677.5	2209.4	2523.8	2894.2	3208.6	3675.9	3886.9	4373.6	4253.0
915.2	60°	1137.0	1386.8	1770.1	2168.5	2379.5	2846.8	3042.8	3432.6	3400.3
547.0	62.5°	600.8	831.2	1104.7	1305.0	1457.9	1912.2	1994.1	2414.0	2403.2
219.6	65°	264.9	351.0	598.7	702.0	859.2	1070.3	1141.3	1292.1	1255.4
107.7	67.5°	137.8	208.9	338.1	415.6	523.3	603.0	661.1	708.5	738.6
71.1	70°	84.0	152.9	208.9	288.6	359.6	424.2	469.4	534.0	572.8
36.6	72.5°	62.4	96.9	144.3	221.8	260.6	335.9	381.2	428.5	463.0
30.1	75°	34.5	64.6	116.3	174.4	208.9	273.5	314.4	346.7	357.5
17.2	77.5°	21.5	49.5	96.9	135.7	163.7	221.8	211.0	241.2	267.0
12.9	80°	15.1	36.6	75.4	112.0	114.1	142.1	168.0	193.8	211.0
8.6	82.5°	10.8	30.1	56.0	86.1	75.4	109.8	131.4	150.7	109.8
6.5	85°	8.6	21.5	28.0	51.7	43.1	77.5	66.8	64.6	43.1
4.3	87.5°	6.5	10.8	19.4	23.7	17.2	17.2	21.5	25.8	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6322.5
6165.3
6208.3
6244.9
6298.8
6408.6
6593.8
6837.1
7104.1
7328.1
7446.5
7310.9
7175.2
7048.2
6914.6
6759.6
6591.6
6410.7
6212.6
5956.4
5616.1
5312.5
5011.0
4240.1
3402.4
2405.4
1240.4
738.6
575.0
469.4
351.0
271.3
213.2
79.7
43.1
21.5
0.0

(END OF REPORT)