

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: P638437

Luminaire Tested: **IFLD-M-SA4D-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638437
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23057.4 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

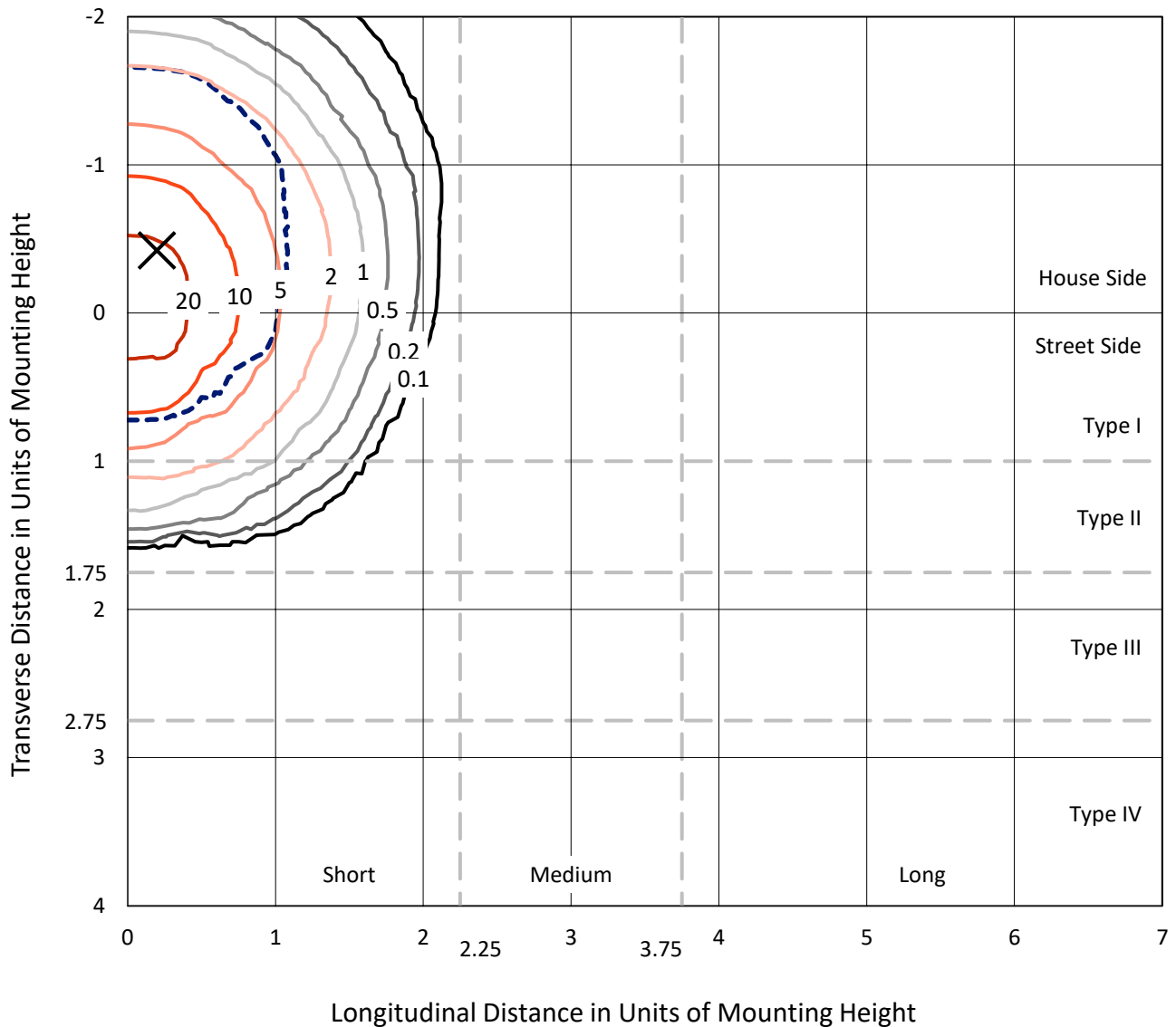
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638437
 CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

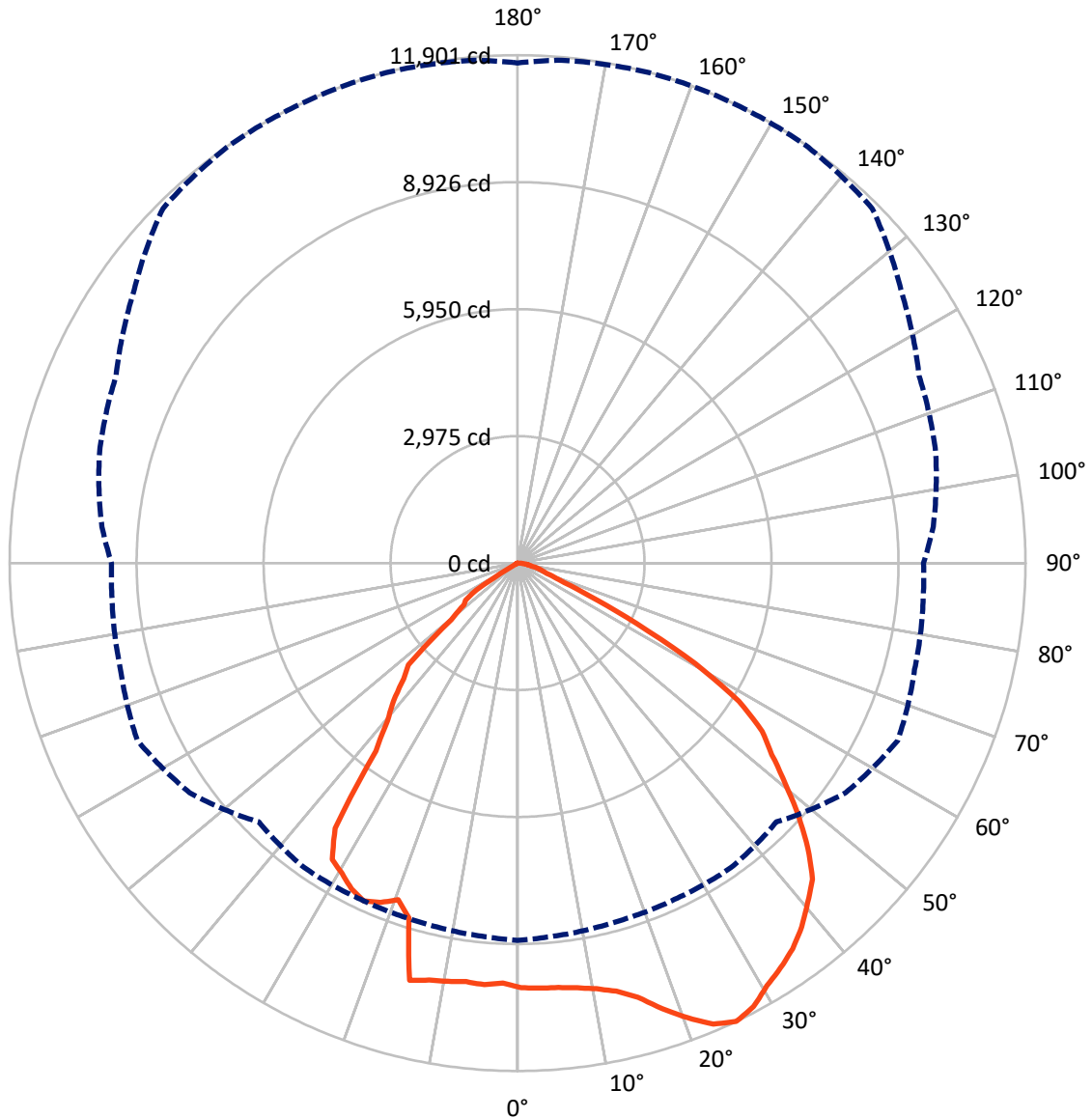
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638437
CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638437

CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14274.9	0.0	14274.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8782.5	0.0	8782.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	23057.4	0.0	23057.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.5	4.1
10°-20°	2914.4	12.6
20°-30°	4607.5	20.0
30°-40°	5204.6	22.6
40°-50°	4874.2	21.1
50°-60°	3360.4	14.6
60°-70°	902.8	3.9
70°-80°	188.1	0.8
80°-90°	50.9	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°	23057.4	100.0
0°-180°	23057.4	100.0

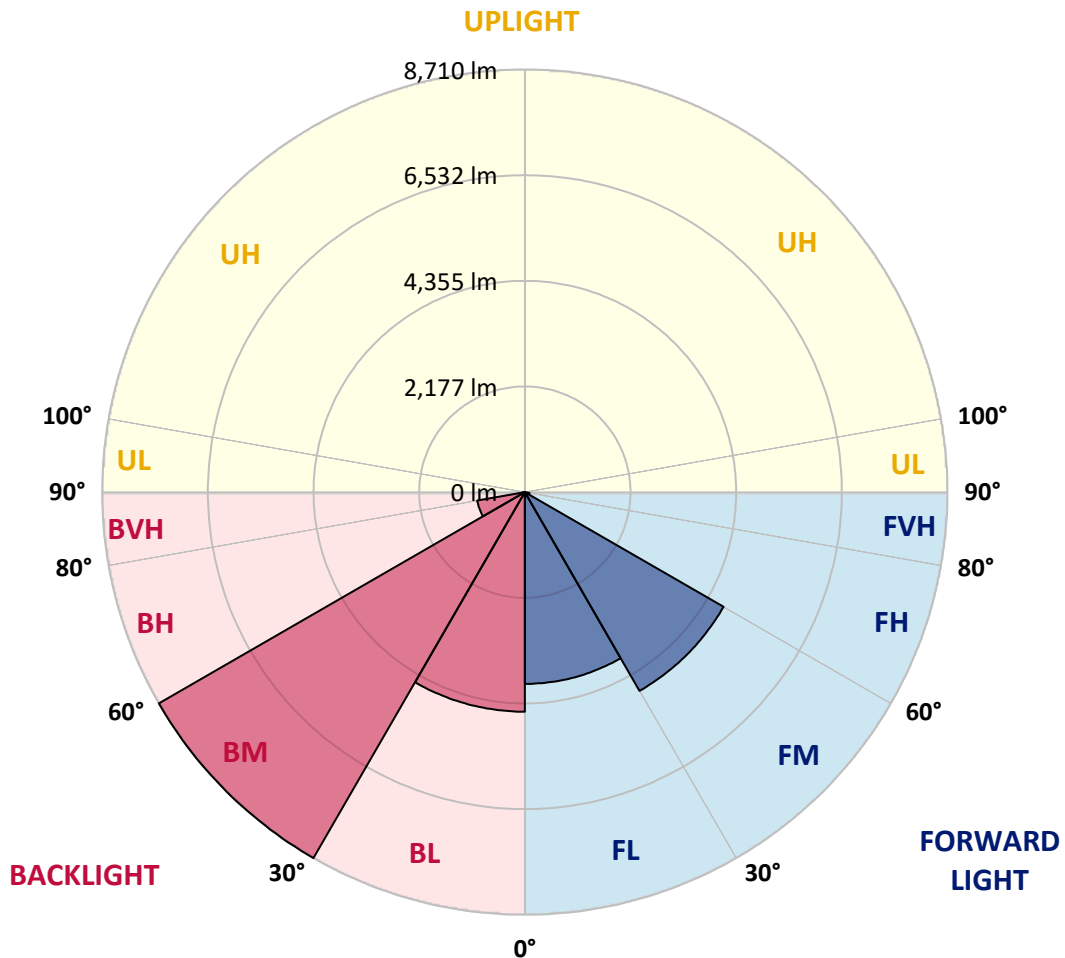


REPORT NUMBER: P638437
 CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3951.3	17.1			
FM (30°-60°)	4729.6	20.5			
FH (60°-80°)	94.8	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	4525.1	19.6	B4/5000		
BM (30°-60°)	8709.6	37.8	B5		
BH (60°-80°)	996.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	44.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type I Short





REPORT NUMBER: P638437
 CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9
2.5°	9992.9	9928.5	9867.5	9847.2	9931.9	10023.4	9965.8	9969.2	9948.9	9986.1
5°	10067.5	9979.4	9938.7	9908.2	9921.7	10016.6	9935.3	9965.8	9931.9	9976.0
7.5°	10040.3	9979.4	9938.7	9881.1	9925.1	10037.0	9959.0	9962.4	9945.5	9986.1
10°	10023.4	9979.4	9928.5	9935.3	9986.1	10081.0	10020.0	10053.9	10030.2	10053.9
12.5°	10064.1	10016.6	9989.5	9989.5	10033.6	10142.0	10111.5	10142.0	10131.8	10152.2
15°	9681.2	9725.2	9982.7	10098.0	10186.1	10294.5	10280.9	10311.4	10318.2	10348.7
17.5°	8166.5	8122.4	8102.1	8695.1	10270.8	10606.2	10596.1	10592.7	10558.8	10535.1
20°	8366.4	8349.4	8325.7	8369.8	8546.0	10768.9	10836.7	10419.9	10297.9	10287.7
22.5°	8684.9	8657.8	8569.7	8573.1	8627.3	9362.6	10501.2	10121.7	10081.0	10057.3
25°	8840.8	8786.6	8715.4	8695.1	8712.0	8576.5	9379.6	9830.3	9630.3	9538.8
27.5°	8566.3	8569.7	8512.1	8566.3	8501.9	7892.0	7549.7	9261.0	9254.2	9213.5
30°	8359.6	8349.4	8281.7	8349.4	7905.5	7224.4	7078.7	8637.5	8566.3	8512.1
32.5°	7726.0	7732.7	7929.3	8193.6	7465.0	6926.2	6485.7	7715.8	8390.1	8359.6
35°	5526.8	5540.3	6238.4	7543.0	6797.5	6333.2	6299.4	6668.7	8112.2	8125.8
37.5°	5320.1	5320.1	5303.1	5516.6	6272.3	6092.7	6160.4	6123.2	7431.1	7465.0
40°	5171.0	5140.5	5116.7	4781.3	4361.1	5923.2	5970.7	5801.2	7024.5	7031.3
42.5°	4991.4	4957.5	4964.3	4344.2	3903.6	5503.0	5370.9	5143.9	6346.8	6353.6
45°	4662.7	4720.3	4760.9	3802.0	3768.1	3930.7	4954.1	4811.8	5889.3	6014.7
47.5°	2372.0	2422.8	3717.3	3497.0	3574.9	3493.6	4184.9	4188.3	4899.9	5316.7
50°	2151.7	2138.2	2141.6	2039.9	3300.5	2826.1	3026.0	3839.3	3924.0	4520.4
52.5°	2006.0	2002.6	1795.9	1596.0	2073.8	2487.2	2195.8	2778.6	2917.6	3829.1
55°	1484.2	1592.6	1416.4	1501.1	1297.8	1992.5	1982.3	2507.5	2555.0	3070.0
57.5°	13.6	16.9	40.7	1141.9	898.0	996.2	1369.0	1711.2	1795.9	2392.3
60°	3.4	6.8	16.9	33.9	582.8	613.3	914.9	989.5	1114.8	1426.6
62.5°	0.0	0.0	6.8	16.9	30.5	250.8	291.4	318.5	491.3	728.5
65°	0.0	0.0	3.4	10.2	16.9	40.7	71.2	149.1	213.5	264.3
67.5°	0.0	0.0	3.4	6.8	13.6	20.3	40.7	57.6	91.5	155.9
70°	0.0	0.0	3.4	6.8	10.2	16.9	27.1	40.7	54.2	77.9
72.5°	0.0	0.0	3.4	6.8	6.8	20.3	20.3	30.5	40.7	50.8
75°	0.0	0.0	3.4	3.4	6.8	13.6	20.3	23.7	27.1	40.7
77.5°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	27.1	23.7	23.7
80°	0.0	0.0	3.4	10.2	10.2	16.9	20.3	27.1	16.9	16.9
82.5°	0.0	0.0	3.4	13.6	10.2	33.9	33.9	37.3	13.6	13.6
85°	0.0	0.0	10.2	6.8	20.3	33.9	30.5	20.3	16.9	10.2
87.5°	0.0	0.0	3.4	3.4	6.8	10.2	23.7	20.3	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638437

CATALOG NUMBER: IFLD-M-SA4D-740-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9948.9	0°	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9	9948.9
9887.9	2.5°	10023.4	9979.4	10070.8	10060.7	10016.6	9996.3	9972.6	9952.2	9803.1
9894.6	5°	10026.8	9959.0	10070.8	10050.5	10043.7	10009.9	9989.5	10020.0	9884.5
9921.7	7.5°	10026.8	9959.0	10081.0	10087.8	10077.6	10050.5	10047.1	10067.5	9955.6
9969.2	10°	10094.6	10067.5	10169.1	10179.3	10165.7	10158.9	10142.0	10128.5	10009.9
10131.8	12.5°	10236.9	10182.7	10297.9	10328.4	10318.2	10335.2	10294.5	10314.8	10192.8
10297.9	15°	10409.7	10413.1	10501.2	10569.0	10562.2	10616.4	10555.4	10609.6	10521.5
10487.6	17.5°	10674.0	10711.3	10836.7	10938.3	10975.6	11016.3	10975.6	10992.5	10867.2
10277.5	20°	10396.1	10535.1	11138.2	11324.6	11402.6	11439.8	11372.1	11392.4	11267.0
10020.0	22.5°	10145.4	10325.0	10860.4	11443.2	11683.8	11758.4	11734.6	11731.2	11683.8
9511.7	25°	9776.0	10138.6	10379.2	10995.9	11751.6	11887.1	11900.7	11897.3	11826.1
9200.0	27.5°	9322.0	9403.3	10026.8	10402.9	11277.2	11792.2	11771.9	11673.6	11578.8
8552.8	30°	8742.5	9111.9	9393.1	9992.9	10663.8	11500.8	11500.8	11426.3	11328.0
8322.3	32.5°	8447.7	8925.5	9186.4	9403.3	9976.0	11175.5	11311.1	11233.1	11155.2
8142.7	35°	8291.8	8363.0	8972.9	9169.5	9654.1	10548.6	11097.6	11019.6	10962.0
7665.0	37.5°	7949.6	8115.6	8400.3	8925.5	9074.6	10037.0	10812.9	10772.3	10704.5
7044.8	40°	7187.2	7631.1	8068.2	8566.3	8722.2	9379.6	10467.3	10484.3	10392.8
6384.1	42.5°	6736.5	7038.1	7722.6	8058.0	8478.2	8956.0	10131.8	10158.9	10094.6
6048.6	45°	6207.9	6543.3	7024.5	7634.5	8207.1	8373.2	9538.8	9823.5	9769.3
5381.1	47.5°	5723.3	5994.4	6584.0	7200.7	7834.4	7810.7	8857.7	9393.1	9318.6
4869.4	50°	5035.4	5509.8	5787.7	6353.6	7299.0	7363.4	8132.6	8888.2	8827.2
4137.5	52.5°	4245.9	4842.3	5374.3	5892.7	6756.8	6909.3	7458.3	8373.2	8332.5
3161.5	55°	3710.5	4144.2	4744.0	5160.8	6099.4	6506.1	6953.4	7881.8	7861.5
2599.0	57.5°	2639.7	3476.7	3971.4	4554.2	5049.0	5784.3	6116.4	6882.2	6692.4
1440.1	60°	1789.2	2182.2	2785.4	3412.3	3744.4	4479.7	4788.1	5401.4	5350.6
860.7	62.5°	945.4	1308.0	1738.3	2053.5	2294.1	3009.1	3137.8	3798.6	3781.7
345.6	65°	416.8	552.3	942.0	1104.7	1352.0	1684.1	1795.9	2033.1	1975.5
169.4	67.5°	216.9	328.7	532.0	654.0	823.4	948.8	1040.3	1114.8	1162.3
111.8	70°	132.2	240.6	328.7	454.1	565.9	667.5	738.7	840.4	901.4
57.6	72.5°	98.3	152.5	227.0	349.0	410.0	528.6	599.8	674.3	728.5
47.4	75°	54.2	101.7	183.0	274.5	328.7	430.3	494.7	545.6	562.5
27.1	77.5°	33.9	77.9	152.5	213.5	257.5	349.0	332.1	379.5	420.2
20.3	80°	23.7	57.6	118.6	176.2	179.6	223.6	264.3	305.0	332.1
13.6	82.5°	16.9	47.4	88.1	135.5	118.6	172.8	206.7	237.2	172.8
10.2	85°	13.6	33.9	44.1	81.3	67.8	122.0	105.0	101.7	67.8
6.8	87.5°	10.2	16.9	30.5	37.3	27.1	27.1	33.9	40.7	33.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9948.9
9701.5
9769.3
9826.9
9911.6
10084.4
10375.8
10758.7
11178.9
11531.3
11717.7
11504.2
11290.7
11090.8
10880.7
10636.7
10372.4
10087.8
9776.0
9372.8
8837.4
8359.6
7885.2
6672.1
5353.9
3785.0
1951.8
1162.3
904.7
738.7
552.3
427.0
335.5
125.4
67.8
33.9
0.0

(END OF REPORT)