

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: P636965

Luminaire Tested: **IFLD-L-SA8A-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636965
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18244.3 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

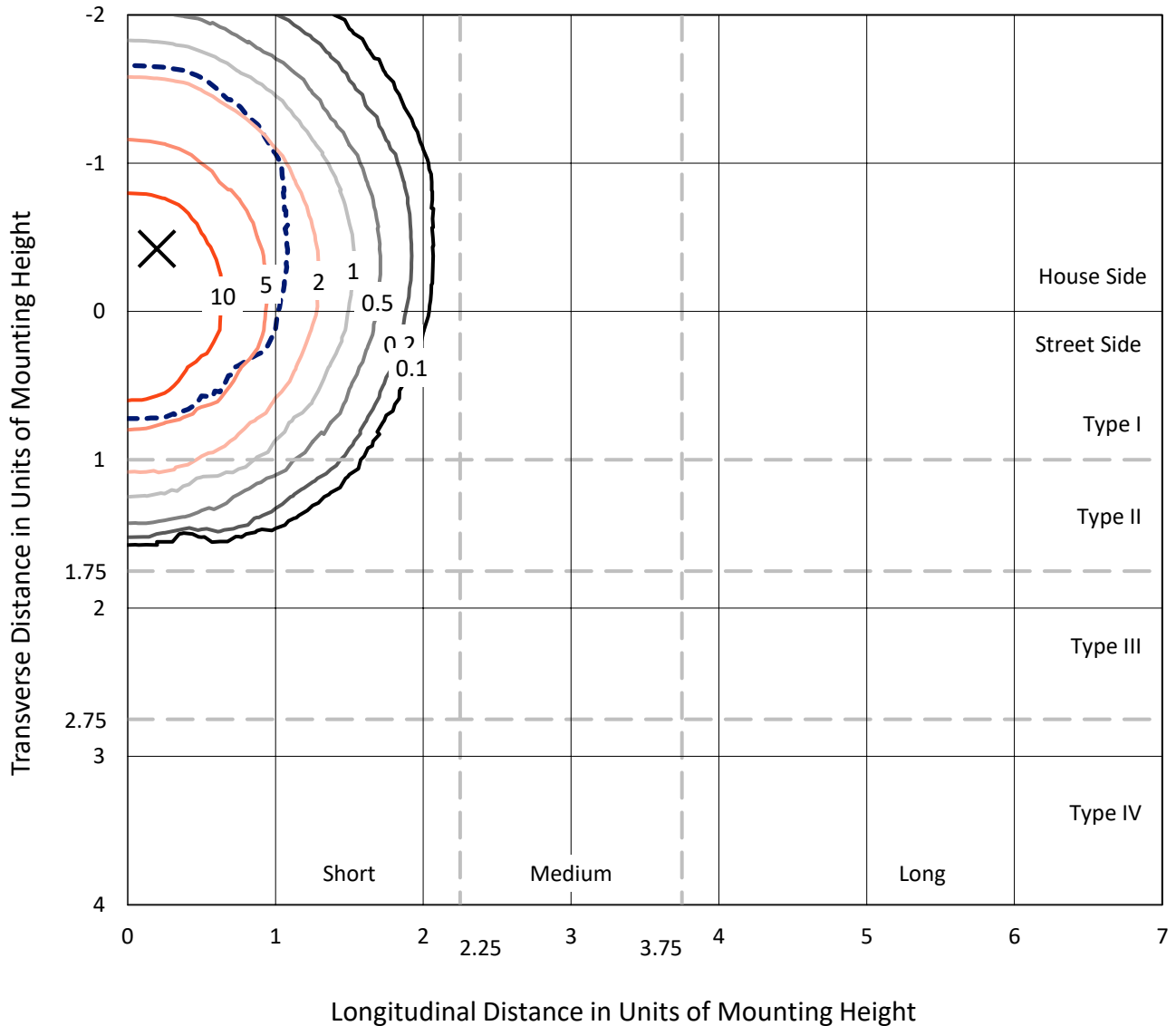
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636965
 CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

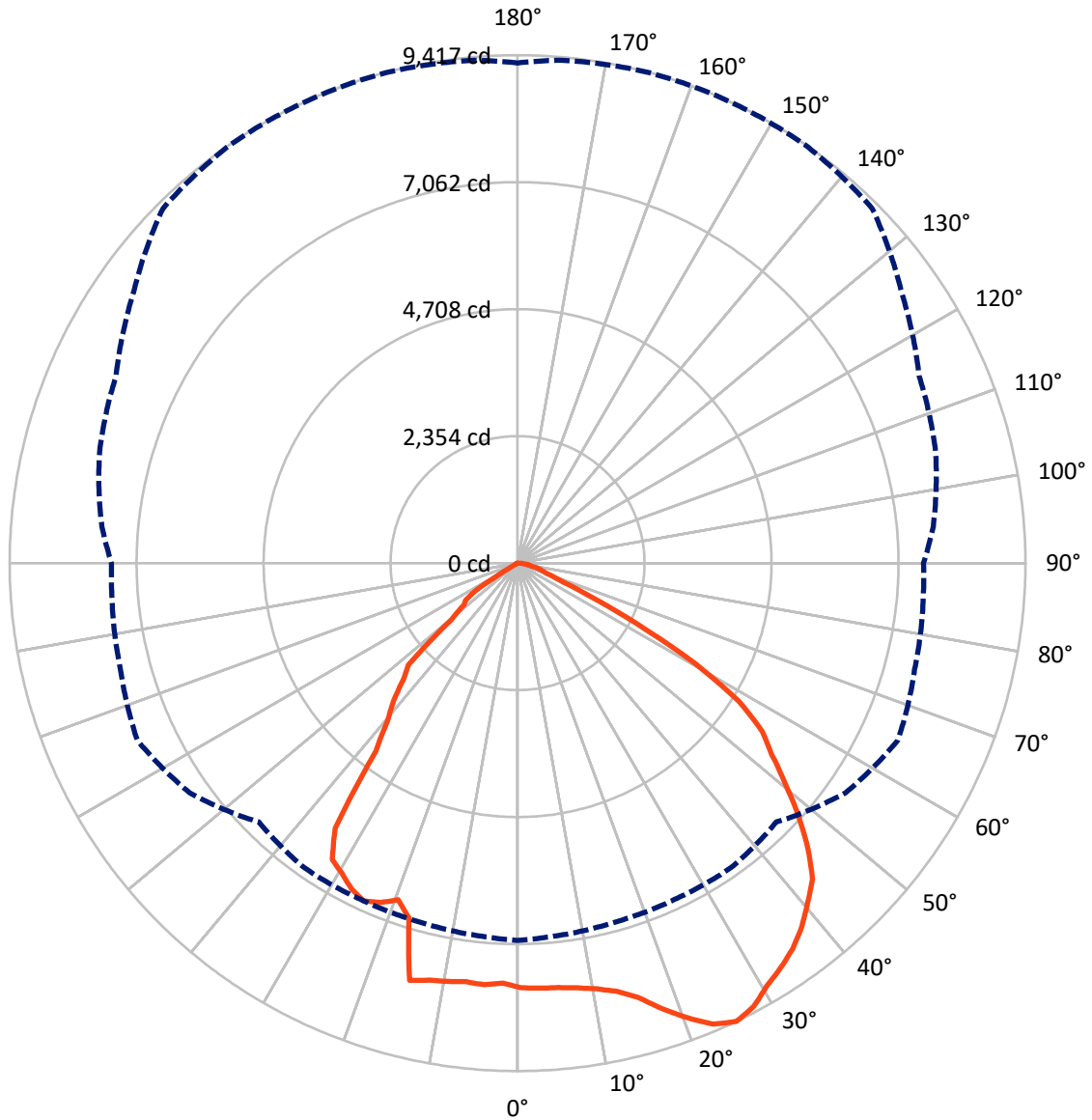
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.7 fc
 Type I - Short - N/A

REPORT NUMBER: P636965
CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636965
 CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11295.1	0.0	11295.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6949.2	0.0	6949.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	18244.3	0.0	18244.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.2	4.1
10°-20°	2306.0	12.6
20°-30°	3645.7	20.0
30°-40°	4118.1	22.6
40°-50°	3856.7	21.1
50°-60°	2658.9	14.6
60°-70°	714.4	3.9
70°-80°	148.9	0.8
80°-90°	40.3	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°	18244.3	100.0
0°-180°	18244.3	100.0



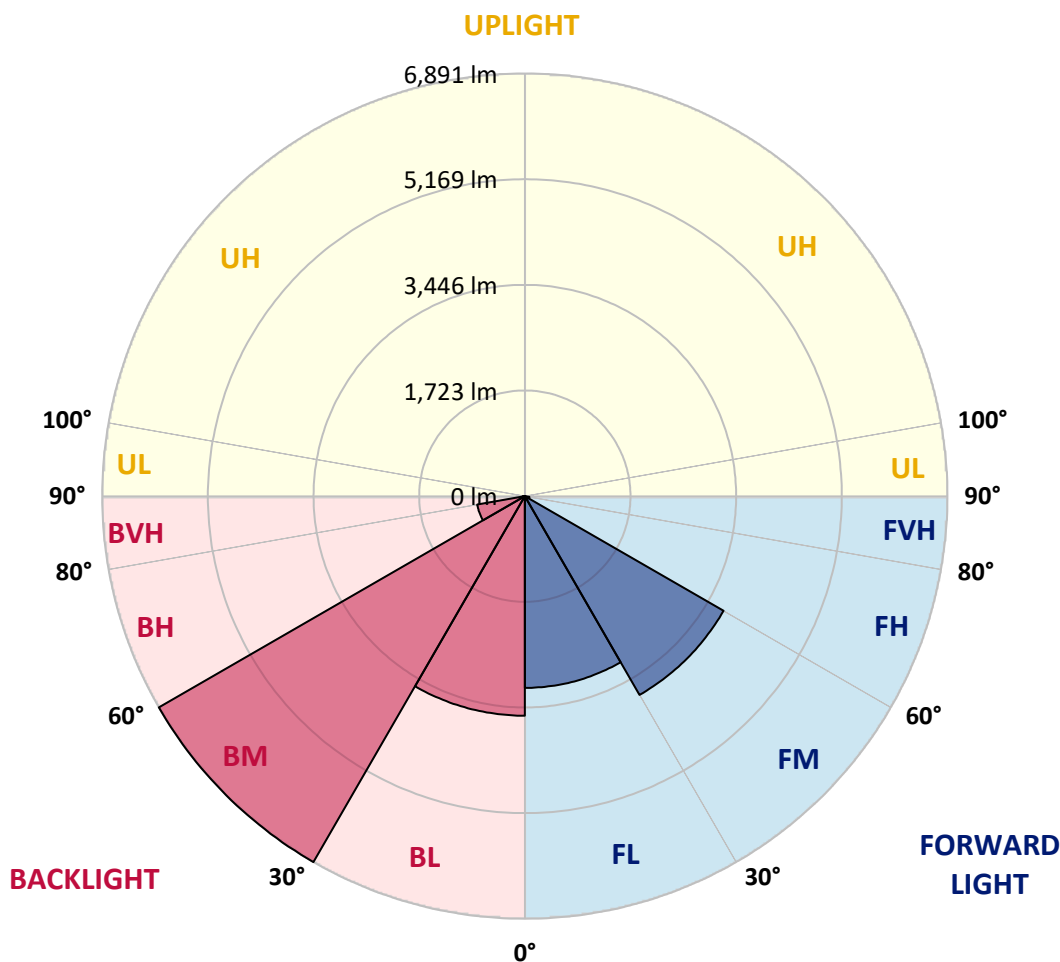
REPORT NUMBER: P636965
 CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3126.5	17.1			
FM	(30°-60°)	3742.3	20.5			
FH	(60°-80°)	75.0	0.4			G0/660
FVH	(80°-90°)	5.4	0.0			G0/10
BL	(0°-30°)	3580.5	19.6	B4/5000		
BM	(30°-60°)	6891.5	37.8	B4/8500		
BH	(60°-80°)	788.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	34.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P636965
 CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1
2.5°	7906.9	7856.0	7807.7	7791.6	7858.7	7931.1	7885.5	7888.2	7872.1	7901.6
5°	7965.9	7896.2	7864.0	7839.9	7850.6	7925.7	7861.4	7885.5	7858.7	7893.5
7.5°	7944.5	7896.2	7864.0	7818.5	7853.3	7941.8	7880.1	7882.8	7869.4	7901.6
10°	7931.1	7896.2	7856.0	7861.4	7901.6	7976.6	7928.4	7955.2	7936.4	7955.2
12.5°	7963.2	7925.7	7904.3	7904.3	7939.1	8024.9	8000.8	8024.9	8016.9	8033.0
15°	7660.3	7695.1	7898.9	7990.1	8059.8	8145.6	8134.8	8159.0	8164.3	8188.5
17.5°	6461.8	6426.9	6410.8	6880.0	8126.8	8392.2	8384.2	8381.5	8354.7	8335.9
20°	6619.9	6606.5	6587.8	6622.6	6762.1	8520.9	8574.6	8244.8	8148.2	8140.2
22.5°	6872.0	6850.5	6780.8	6783.5	6826.4	7408.2	8309.1	8008.8	7976.6	7957.9
25°	6995.3	6952.4	6896.1	6880.0	6893.4	6786.2	7421.6	7778.2	7620.0	7547.7
27.5°	6778.1	6780.8	6735.2	6778.1	6727.2	6244.6	5973.8	7327.8	7322.4	7290.3
30°	6614.6	6606.5	6552.9	6606.5	6255.3	5716.4	5601.1	6834.4	6778.1	6735.2
32.5°	6113.2	6118.6	6274.1	6483.2	5906.7	5480.4	5131.9	6105.2	6638.7	6614.6
35°	4373.1	4383.8	4936.1	5968.4	5378.5	5011.2	4984.4	5276.7	6418.9	6429.6
37.5°	4209.5	4209.5	4196.1	4365.0	4963.0	4820.8	4874.5	4845.0	5879.9	5906.7
40°	4091.6	4067.4	4048.7	3783.2	3450.7	4686.8	4724.3	4590.3	5558.2	5563.5
42.5°	3949.4	3922.6	3928.0	3437.3	3088.8	4354.3	4249.7	4070.1	5021.9	5027.3
45°	3689.4	3734.9	3767.1	3008.3	2981.5	3110.2	3920.0	3807.3	4660.0	4759.2
47.5°	1876.9	1917.1	2941.3	2767.0	2828.7	2764.3	3311.3	3314.0	3877.1	4206.8
50°	1702.6	1691.9	1694.5	1614.1	2611.5	2236.1	2394.3	3037.8	3104.9	3576.8
52.5°	1587.3	1584.6	1421.1	1262.9	1640.9	1968.0	1737.4	2198.6	2308.5	3029.8
55°	1174.4	1260.2	1120.8	1187.8	1026.9	1576.6	1568.5	1984.1	2021.6	2429.2
57.5°	10.7	13.4	32.2	903.6	710.5	788.3	1083.2	1354.0	1421.1	1892.9
60°	2.7	5.4	13.4	26.8	461.2	485.3	723.9	782.9	882.1	1128.8
62.5°	0.0	0.0	5.4	13.4	24.1	198.4	230.6	252.0	388.8	576.5
65°	0.0	0.0	2.7	8.0	13.4	32.2	56.3	118.0	168.9	209.1
67.5°	0.0	0.0	2.7	5.4	10.7	16.1	32.2	45.6	72.4	123.3
70°	0.0	0.0	2.7	5.4	8.0	13.4	21.4	32.2	42.9	61.7
72.5°	0.0	0.0	2.7	5.4	5.4	16.1	16.1	24.1	32.2	40.2
75°	0.0	0.0	2.7	2.7	5.4	10.7	16.1	18.8	21.4	32.2
77.5°	0.0	0.0	2.7	5.4	8.0	10.7	13.4	21.4	18.8	18.8
80°	0.0	0.0	2.7	8.0	8.0	13.4	16.1	21.4	13.4	13.4
82.5°	0.0	0.0	2.7	10.7	8.0	26.8	26.8	29.5	10.7	10.7
85°	0.0	0.0	8.0	5.4	16.1	26.8	24.1	16.1	13.4	8.0
87.5°	0.0	0.0	2.7	2.7	5.4	8.0	18.8	16.1	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636965

CATALOG NUMBER: IFLD-L-SA8A-940-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7872.1	0°	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1	7872.1
7823.8	2.5°	7931.1	7896.2	7968.6	7960.6	7925.7	7909.6	7890.8	7874.8	7756.8
7829.2	5°	7933.7	7880.1	7968.6	7952.5	7947.2	7920.3	7904.3	7928.4	7821.1
7850.6	7.5°	7933.7	7880.1	7976.6	7982.0	7974.0	7952.5	7949.8	7965.9	7877.4
7888.2	10°	7987.4	7965.9	8046.4	8054.4	8043.7	8038.3	8024.9	8014.2	7920.3
8016.9	12.5°	8100.0	8057.1	8148.2	8172.4	8164.3	8177.7	8145.6	8161.7	8065.1
8148.2	15°	8236.7	8239.4	8309.1	8362.7	8357.4	8400.3	8352.0	8394.9	8325.2
8298.4	17.5°	8445.9	8475.4	8574.6	8655.0	8684.5	8716.7	8684.5	8697.9	8598.7
8132.2	20°	8226.0	8335.9	8813.2	8960.7	9022.3	9051.8	8998.2	9014.3	8915.1
7928.4	22.5°	8027.6	8169.7	8593.3	9054.5	9244.9	9303.9	9285.1	9282.4	9244.9
7526.2	25°	7735.3	8022.2	8212.6	8700.6	9298.5	9405.7	9416.5	9413.8	9357.5
7279.5	27.5°	7376.1	7440.4	7933.7	8231.4	8923.1	9330.7	9314.6	9236.8	9161.8
6767.4	30°	6917.6	7209.8	7432.4	7906.9	8437.8	9100.1	9100.1	9041.1	8963.3
6585.1	32.5°	6684.3	7062.4	7268.8	7440.4	7893.5	8842.7	8949.9	8888.3	8826.6
6443.0	35°	6561.0	6617.3	7099.9	7255.4	7638.8	8346.7	8781.0	8719.3	8673.8
6064.9	37.5°	6290.2	6421.5	6646.8	7062.4	7180.3	7941.8	8555.8	8523.6	8470.0
5574.3	40°	5686.9	6038.1	6384.0	6778.1	6901.5	7421.6	8282.3	8295.7	8223.3
5051.4	42.5°	5330.3	5568.9	6110.5	6376.0	6708.4	7086.5	8016.9	8038.3	7987.4
4786.0	45°	4912.0	5177.4	5558.2	6040.8	6493.9	6625.3	7547.7	7772.9	7730.0
4257.8	47.5°	4528.6	4743.1	5209.6	5697.6	6199.0	6180.2	7008.7	7432.4	7373.4
3852.9	50°	3984.3	4359.7	4579.5	5027.3	5775.4	5826.3	6434.9	7032.9	6984.6
3273.8	52.5°	3359.6	3831.5	4252.4	4662.7	5346.4	5467.0	5901.4	6625.3	6593.1
2501.6	55°	2935.9	3279.1	3753.7	4083.5	4826.2	5148.0	5501.9	6236.5	6220.4
2056.5	57.5°	2088.7	2750.9	3142.4	3603.6	3995.0	4576.9	4839.6	5445.6	5295.4
1139.5	60°	1415.7	1726.7	2204.0	2700.0	2962.8	3544.6	3788.6	4273.9	4233.7
681.0	62.5°	748.1	1035.0	1375.5	1624.8	1815.2	2380.9	2482.8	3005.7	2992.2
273.5	65°	329.8	437.0	745.4	874.1	1069.8	1332.6	1421.1	1608.7	1563.2
134.1	67.5°	171.6	260.1	421.0	517.5	651.5	750.7	823.1	882.1	919.7
88.5	70°	104.6	190.4	260.1	359.3	447.8	528.2	584.5	664.9	713.2
45.6	72.5°	77.8	120.7	179.6	276.2	324.4	418.3	474.6	533.6	576.5
37.5	75°	42.9	80.4	144.8	217.2	260.1	340.5	391.5	431.7	445.1
21.4	77.5°	26.8	61.7	120.7	168.9	203.8	276.2	262.8	300.3	332.5
16.1	80°	18.8	45.6	93.8	139.4	142.1	177.0	209.1	241.3	262.8
10.7	82.5°	13.4	37.5	69.7	107.2	93.8	136.7	163.6	187.7	136.7
8.0	85°	10.7	26.8	34.9	64.3	53.6	96.5	83.1	80.4	53.6
5.4	87.5°	8.0	13.4	24.1	29.5	21.4	21.4	26.8	32.2	26.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7872.1
7676.4
7730.0
7775.6
7842.6
7979.3
8209.9
8512.9
8845.4
9124.2
9271.7
9102.8
8933.8
8775.7
8609.4
8416.4
8207.2
7982.0
7735.3
7416.3
6992.6
6614.6
6239.2
5279.3
4236.3
2994.9
1544.4
919.7
715.9
584.5
437.0
337.8
265.4
99.2
53.6
26.8
0.0

(END OF REPORT)