

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: P638523

Luminaire Tested: **IFLD-M-SA4C-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15404.2 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

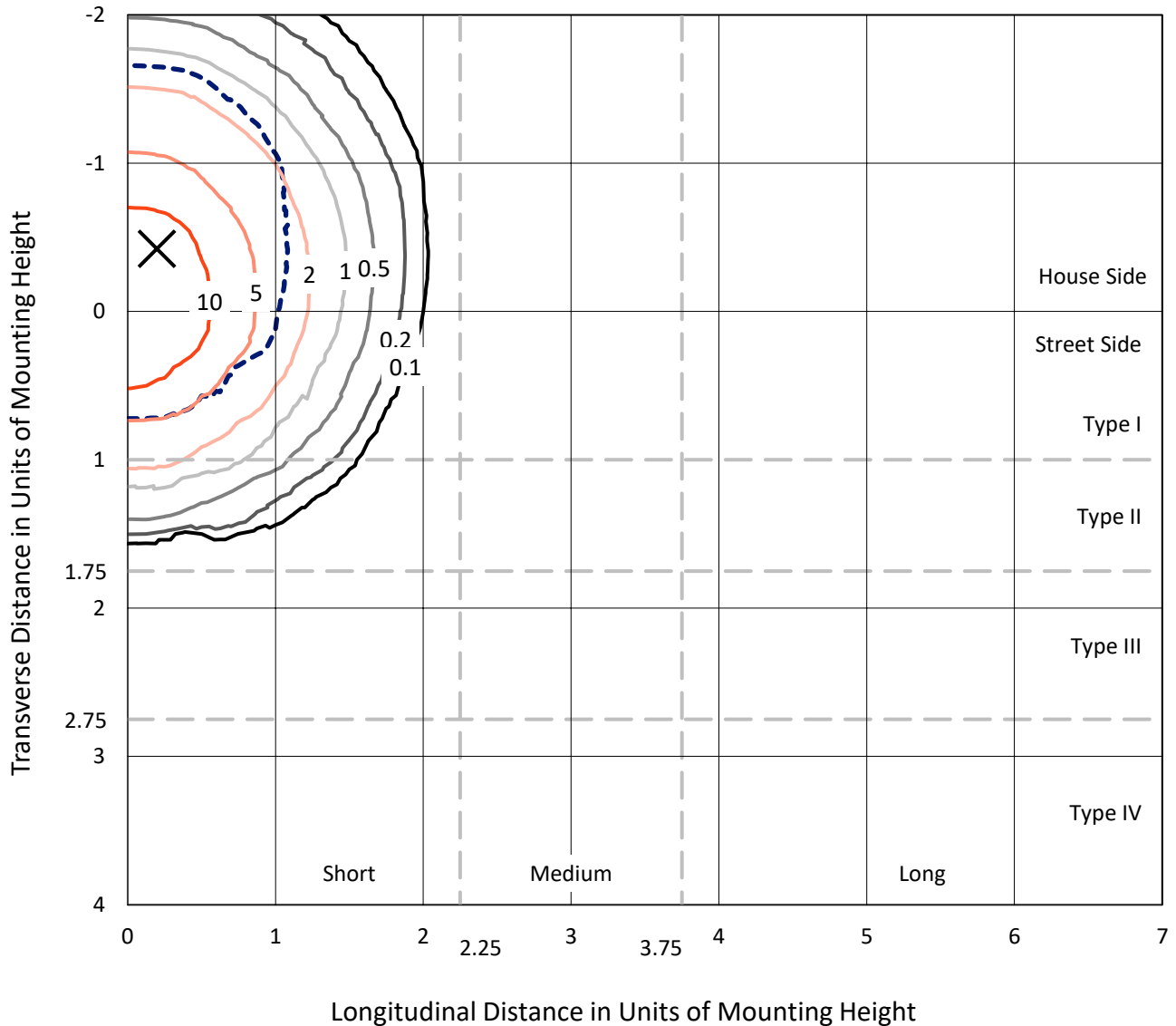
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

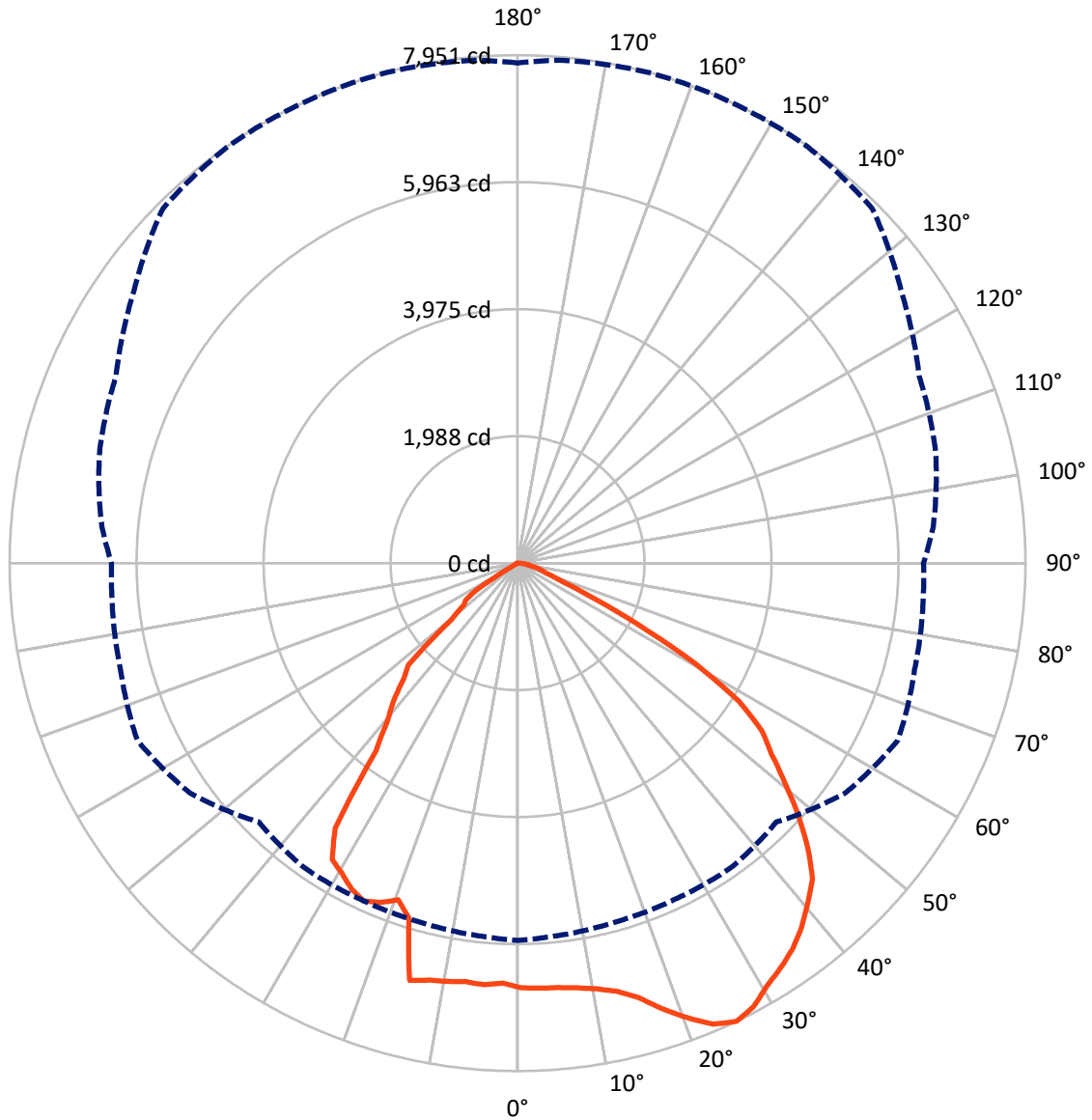
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.6 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	9536.8	0.0	9536.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5867.4	0.0	5867.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	15404.2	0.0	15404.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.7	4.1
10°-20°	1947.0	12.6
20°-30°	3078.2	20.0
30°-40°	3477.1	22.6
40°-50°	3256.3	21.1
50°-60°	2245.0	14.6
60°-70°	603.2	3.9
70°-80°	125.7	0.8
80°-90°	34.0	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°	15404.2	100.0
0°-180°	15404.2	100.0



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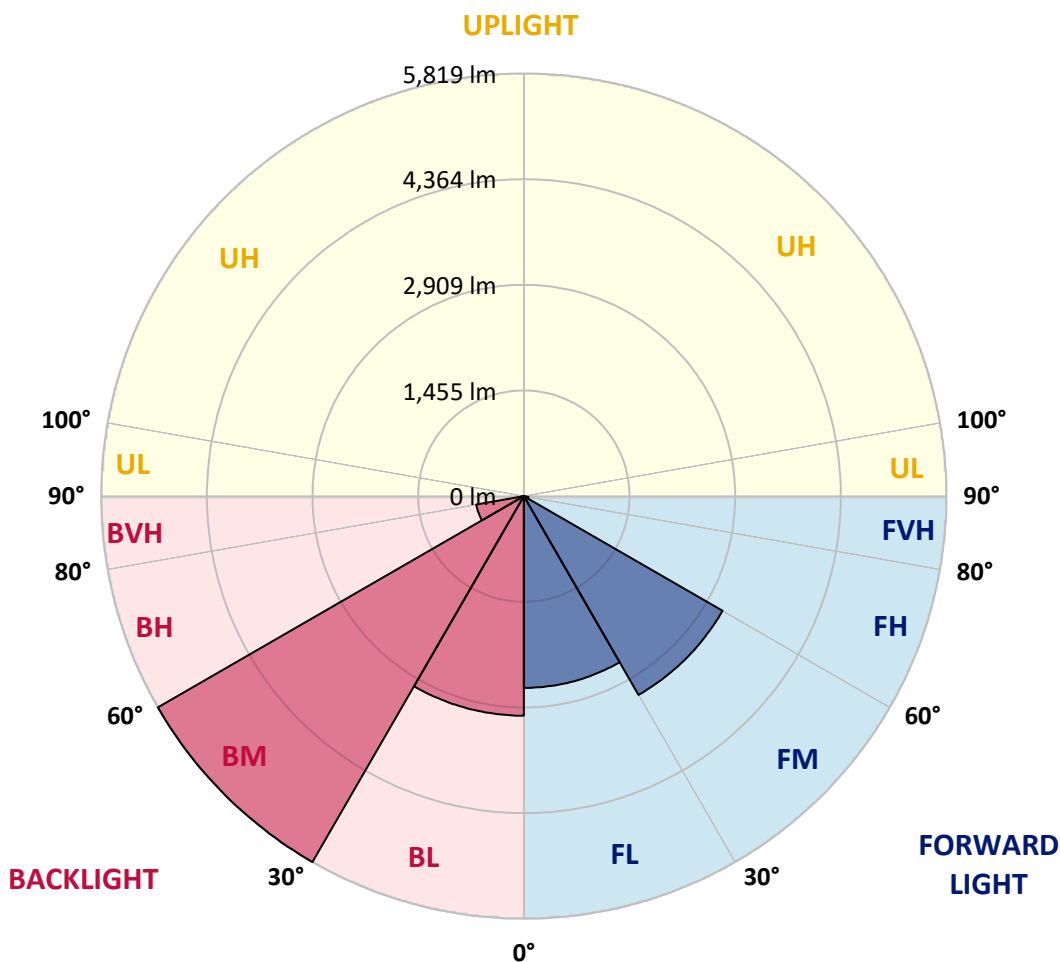
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.8	17.1			
FM (30°-60°)	3159.7	20.5			
FH (60°-80°)	63.3	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3023.1	19.6	B4/5000		
BM (30°-60°)	5818.7	37.8	B4/8500		
BH (60°-80°)	665.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6
2.5°	6676.1	6633.0	6592.3	6578.7	6635.3	6696.4	6657.9	6660.2	6646.6	6671.5
5°	6725.9	6667.0	6639.8	6619.5	6628.5	6691.9	6637.6	6657.9	6635.3	6664.7
7.5°	6707.7	6667.0	6639.8	6601.3	6630.8	6705.5	6653.4	6655.7	6644.4	6671.5
10°	6696.4	6667.0	6633.0	6637.6	6671.5	6734.9	6694.2	6716.8	6701.0	6716.8
12.5°	6723.6	6691.9	6673.8	6673.8	6703.2	6775.7	6755.3	6775.7	6768.9	6782.5
15°	6467.8	6497.2	6669.3	6746.2	6805.1	6877.5	6868.5	6888.9	6893.4	6913.8
17.5°	5455.8	5426.4	5412.8	5809.0	6861.7	7085.8	7079.0	7076.7	7054.1	7038.3
20°	5589.4	5578.1	5562.2	5591.7	5709.4	7194.5	7239.7	6961.3	6879.8	6873.0
22.5°	5802.2	5784.1	5725.2	5727.5	5763.7	6255.0	7015.6	6762.1	6734.9	6719.1
25°	5906.3	5870.1	5822.6	5809.0	5820.3	5729.8	6266.3	6567.4	6433.8	6372.7
27.5°	5723.0	5725.2	5686.8	5723.0	5680.0	5272.5	5043.8	6187.1	6182.5	6155.4
30°	5584.9	5578.1	5532.8	5578.1	5281.5	4826.5	4729.2	5770.5	5723.0	5686.8
32.5°	5161.5	5166.1	5297.4	5474.0	4987.2	4627.3	4333.0	5154.8	5605.3	5584.9
35°	3692.3	3701.4	4167.7	5039.3	4541.3	4231.1	4208.5	4455.2	5419.6	5428.7
37.5°	3554.2	3554.2	3542.9	3685.5	4190.4	4070.4	4115.7	4090.8	4964.6	4987.2
40°	3454.6	3434.2	3418.4	3194.3	2913.6	3957.2	3988.9	3875.7	4692.9	4697.5
42.5°	3334.6	3312.0	3316.5	2902.2	2607.9	3676.5	3588.2	3436.5	4240.2	4244.7
45°	3115.0	3153.5	3180.7	2540.0	2517.4	2626.0	3309.7	3214.6	3934.5	4018.3
47.5°	1584.7	1618.6	2483.4	2336.3	2388.3	2334.0	2795.8	2798.1	3273.5	3552.0
50°	1437.5	1428.5	1430.7	1362.8	2205.0	1888.0	2021.6	2564.9	2621.5	3020.0
52.5°	1340.2	1337.9	1199.8	1066.3	1385.5	1661.7	1467.0	1856.3	1949.2	2558.1
55°	991.6	1064.0	946.3	1002.9	867.0	1331.1	1324.3	1675.2	1706.9	2051.0
57.5°	9.1	11.3	27.2	762.9	599.9	665.6	914.6	1143.2	1199.8	1598.3
60°	2.3	4.5	11.3	22.6	389.4	409.8	611.2	661.0	744.8	953.1
62.5°	0.0	0.0	4.5	11.3	20.4	167.5	194.7	212.8	328.3	486.7
65°	0.0	0.0	2.3	6.8	11.3	27.2	47.5	99.6	142.6	176.6
67.5°	0.0	0.0	2.3	4.5	9.1	13.6	27.2	38.5	61.1	104.1
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	36.2	52.1
72.5°	0.0	0.0	2.3	4.5	4.5	13.6	13.6	20.4	27.2	34.0
75°	0.0	0.0	2.3	2.3	4.5	9.1	13.6	15.8	18.1	27.2
77.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	18.1	15.8	15.8
80°	0.0	0.0	2.3	6.8	6.8	11.3	13.6	18.1	11.3	11.3
82.5°	0.0	0.0	2.3	9.1	6.8	22.6	22.6	24.9	9.1	9.1
85°	0.0	0.0	6.8	4.5	13.6	22.6	20.4	13.6	11.3	6.8
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	15.8	13.6	4.5	4.5
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°
6646.6	0°	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6	6646.6
6605.9	2.5°	6696.4	6667.0	6728.1	6721.3	6691.9	6678.3	6662.5	6648.9	6549.3
6610.4	5°	6698.7	6653.4	6728.1	6714.5	6710.0	6687.4	6673.8	6694.2	6603.6
6628.5	7.5°	6698.7	6653.4	6734.9	6739.4	6732.6	6714.5	6712.3	6725.9	6651.1
6660.2	10°	6744.0	6725.9	6793.8	6800.6	6791.5	6787.0	6775.7	6766.6	6687.4
6768.9	12.5°	6839.0	6802.8	6879.8	6900.2	6893.4	6904.7	6877.5	6891.1	6809.6
6879.8	15°	6954.5	6956.8	7015.6	7060.9	7056.4	7092.6	7051.8	7088.1	7029.2
7006.6	17.5°	7131.1	7156.0	7239.7	7307.7	7332.6	7359.7	7332.6	7343.9	7260.1
6866.2	20°	6945.4	7038.3	7441.2	7565.7	7617.8	7642.7	7597.4	7611.0	7527.3
6694.2	22.5°	6777.9	6897.9	7255.6	7645.0	7805.7	7855.5	7839.7	7837.4	7805.7
6354.6	25°	6531.2	6773.4	6934.1	7346.1	7851.0	7941.5	7950.6	7948.3	7900.8
6146.3	27.5°	6227.8	6282.1	6698.7	6950.0	7534.0	7878.1	7864.6	7798.9	7735.5
5713.9	30°	5840.7	6087.5	6275.4	6676.1	7124.3	7683.5	7683.5	7633.7	7568.0
5560.0	32.5°	5643.7	5962.9	6137.3	6282.1	6664.7	7466.1	7556.7	7504.6	7452.5
5440.0	35°	5539.6	5587.1	5994.6	6125.9	6449.7	7047.3	7414.1	7362.0	7323.5
5120.8	37.5°	5311.0	5421.9	5612.0	5962.9	6062.6	6705.5	7223.9	7196.7	7151.5
4706.5	40°	4801.6	5098.2	5390.2	5723.0	5827.1	6266.3	6993.0	7004.3	6943.2
4265.1	42.5°	4500.5	4702.0	5159.3	5383.4	5664.1	5983.3	6768.9	6787.0	6744.0
4040.9	45°	4147.3	4371.5	4692.9	5100.4	5483.0	5593.9	6372.7	6562.9	6526.6
3595.0	47.5°	3823.6	4004.7	4398.6	4810.7	5234.0	5218.1	5917.7	6275.4	6225.5
3253.1	50°	3364.1	3681.0	3866.6	4244.7	4876.3	4919.3	5433.2	5938.0	5897.3
2764.1	52.5°	2836.6	3235.0	3590.4	3936.8	4514.1	4616.0	4982.7	5593.9	5566.8
2112.2	55°	2478.9	2768.7	3169.4	3447.8	4074.9	4346.6	4645.4	5265.7	5252.1
1736.4	57.5°	1763.5	2322.7	2653.2	3042.6	3373.1	3864.4	4086.2	4597.8	4471.1
962.1	60°	1195.3	1457.9	1860.9	2279.7	2501.5	2992.8	3198.8	3608.6	3574.6
575.0	62.5°	631.6	873.8	1161.3	1371.9	1532.6	2010.3	2096.3	2537.8	2526.4
230.9	65°	278.5	369.0	629.3	738.0	903.3	1125.1	1199.8	1358.3	1319.8
113.2	67.5°	144.9	219.6	355.4	436.9	550.1	633.9	695.0	744.8	776.5
74.7	70°	88.3	160.7	219.6	303.4	378.1	446.0	493.5	561.4	602.2
38.5	72.5°	65.7	101.9	151.7	233.2	273.9	353.2	400.7	450.5	486.7
31.7	75°	36.2	67.9	122.2	183.4	219.6	287.5	330.5	364.5	375.8
18.1	77.5°	22.6	52.1	101.9	142.6	172.1	233.2	221.9	253.5	280.7
13.6	80°	15.8	38.5	79.2	117.7	120.0	149.4	176.6	203.7	221.9
9.1	82.5°	11.3	31.7	58.9	90.6	79.2	115.5	138.1	158.5	115.5
6.8	85°	9.1	22.6	29.4	54.3	45.3	81.5	70.2	67.9	45.3
4.5	87.5°	6.8	11.3	20.4	24.9	18.1	18.1	22.6	27.2	22.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6646.6
6481.4
6526.6
6565.1
6621.7
6737.2
6931.9
7187.7
7468.4
7703.8
7828.3
7685.7
7543.1
7409.5
7269.2
7106.2
6929.6
6739.4
6531.2
6261.8
5904.1
5584.9
5267.9
4457.5
3576.9
2528.7
1304.0
776.5
604.4
493.5
369.0
285.2
224.1
83.8
45.3
22.6
0.0

(END OF REPORT)