

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: P638517

Luminaire Tested: **IFLD-S-SA6B-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18085 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

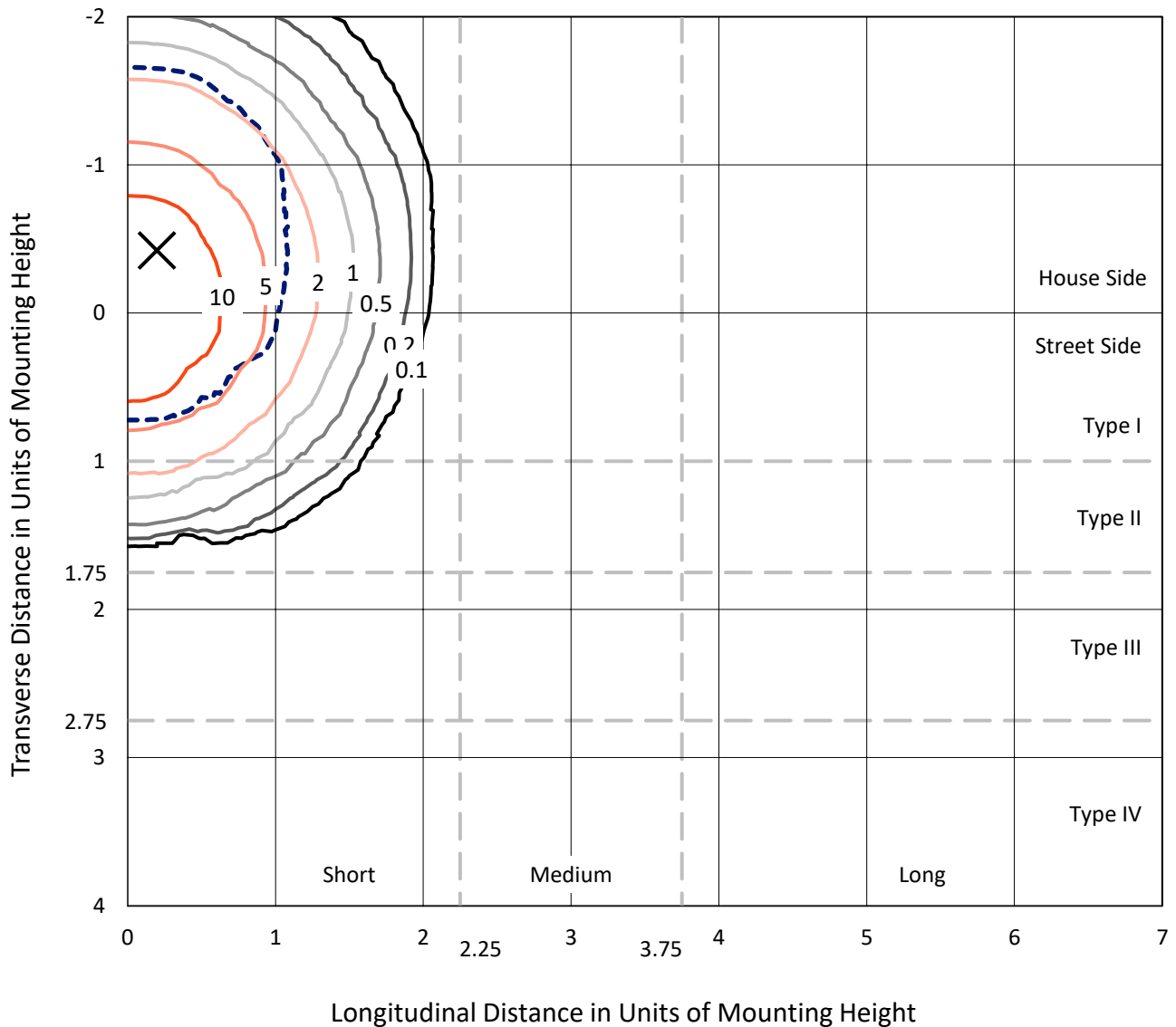
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

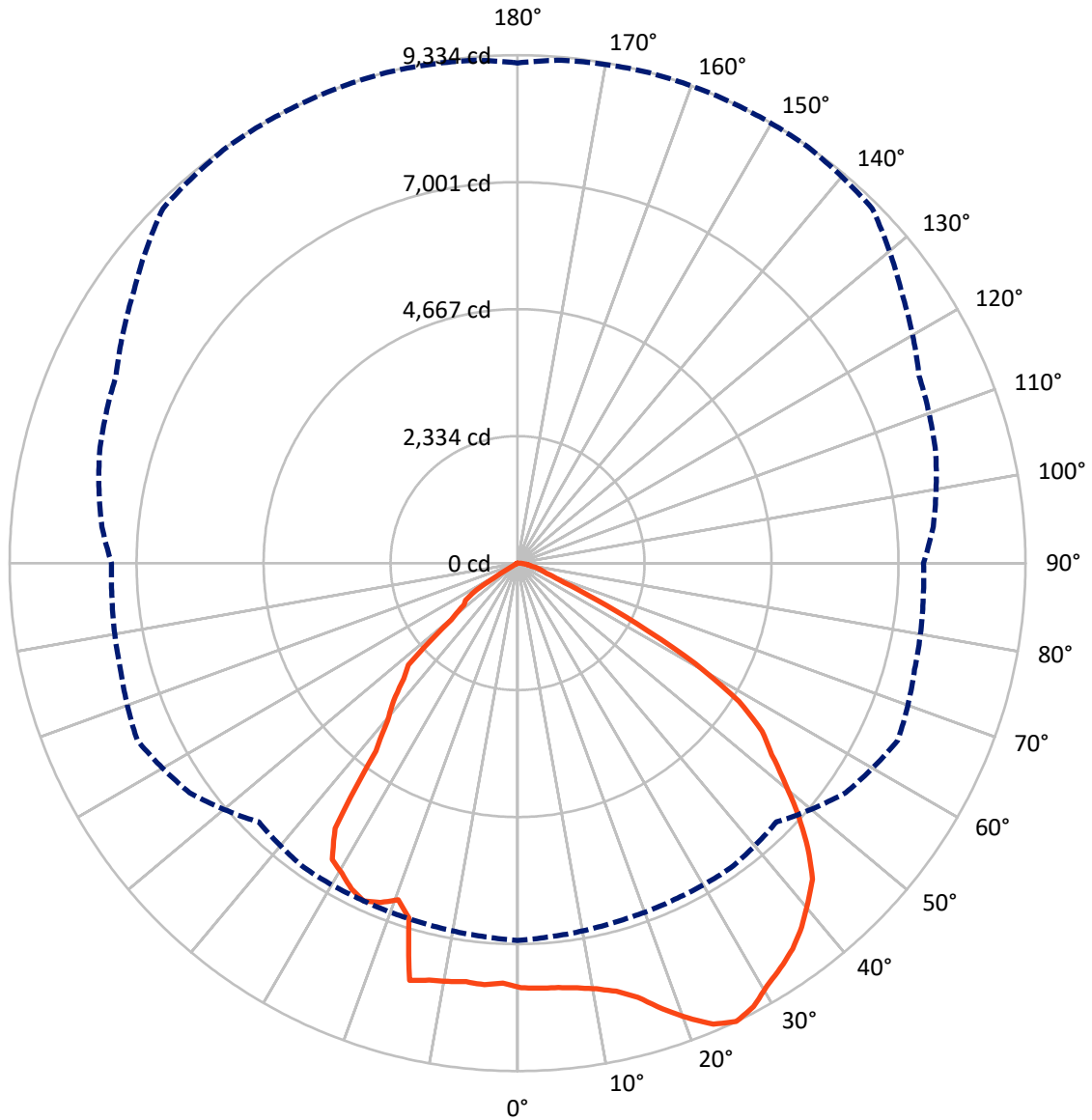
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.5 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	11196.4	0.0	11196.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6888.5	0.0	6888.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	18085.0	0.0	18085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.6	4.1
10°-20°	2285.9	12.6
20°-30°	3613.9	20.0
30°-40°	4082.2	22.6
40°-50°	3823.0	21.1
50°-60°	2635.7	14.6
60°-70°	708.1	3.9
70°-80°	147.6	0.8
80°-90°	39.9	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°	18085.0	100.0
0°-180°	18085.0	100.0



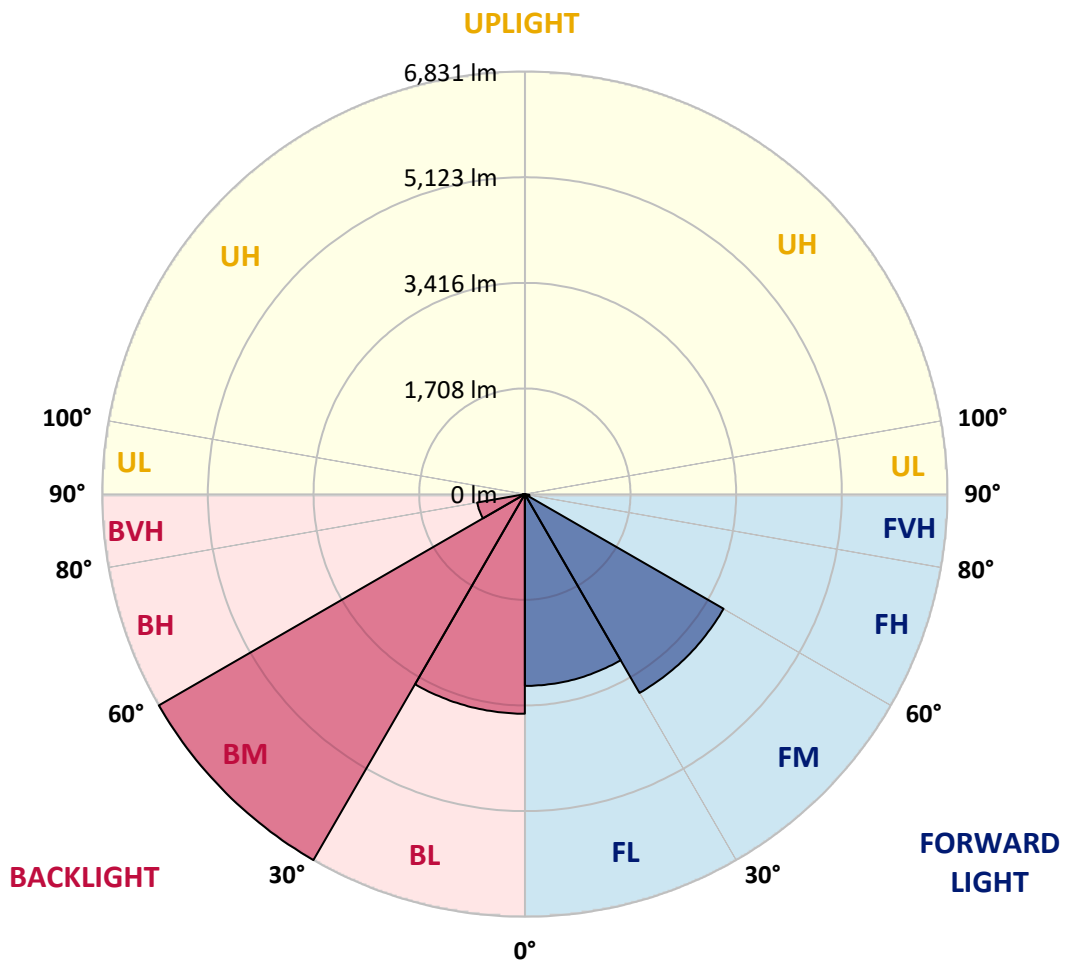
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3099.2	17.1			
FM (30°-60°)	3709.6	20.5			
FH (60°-80°)	74.3	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	3549.2	19.6	B4/5000		
BM (30°-60°)	6831.3	37.8	B4/8500		
BH (60°-80°)	781.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.6	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°	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3
2.5°	7837.9	7787.4	7739.6	7723.6	7790.0	7861.8	7816.6	7819.3	7803.3	7832.6
5°	7896.4	7827.3	7795.4	7771.4	7782.1	7856.5	7792.7	7816.6	7790.0	7824.6
7.5°	7875.1	7827.3	7795.4	7750.2	7784.7	7872.4	7811.3	7814.0	7800.7	7832.6
10°	7861.8	7827.3	7787.4	7792.7	7832.6	7907.0	7859.2	7885.7	7867.1	7885.7
12.5°	7893.7	7856.5	7835.2	7835.2	7869.8	7954.8	7930.9	7954.8	7946.9	7962.8
15°	7593.4	7627.9	7829.9	7920.3	7989.4	8074.4	8063.8	8087.7	8093.0	8117.0
17.5°	6405.3	6370.8	6354.8	6819.9	8055.8	8319.0	8311.0	8308.3	8281.7	8263.1
20°	6562.1	6548.9	6530.2	6564.8	6703.0	8446.5	8499.7	8172.8	8077.1	8069.1
22.5°	6812.0	6790.7	6721.6	6724.3	6766.8	7343.5	8236.6	7938.9	7907.0	7888.4
25°	6934.2	6891.7	6835.9	6819.9	6833.2	6726.9	7356.8	7710.3	7553.5	7481.7
27.5°	6719.0	6721.6	6676.4	6719.0	6668.5	6190.0	5921.6	7263.8	7258.5	7226.6
30°	6556.8	6548.9	6495.7	6548.9	6200.7	5666.5	5552.2	6774.8	6719.0	6676.4
32.5°	6059.8	6065.1	6219.3	6426.6	5855.2	5432.6	5087.1	6051.8	6580.7	6556.8
35°	4334.9	4345.5	4893.0	5916.3	5331.6	4967.5	4940.9	5230.6	6362.8	6373.4
37.5°	4172.8	4172.8	4159.5	4326.9	4919.6	4778.7	4831.9	4802.7	5828.6	5855.2
40°	4055.8	4031.9	4013.3	3750.2	3420.6	4645.9	4683.1	4550.2	5509.6	5515.0
42.5°	3915.0	3888.4	3893.7	3407.3	3061.8	4316.3	4212.6	4034.6	4978.1	4983.4
45°	3657.2	3702.3	3734.2	2982.1	2955.5	3083.1	3885.7	3774.1	4619.3	4717.6
47.5°	1860.5	1900.3	2915.6	2742.9	2804.0	2740.2	3282.4	3285.1	3843.2	4170.1
50°	1687.7	1677.1	1679.7	1600.0	2588.7	2216.6	2373.4	3011.3	3077.7	3545.5
52.5°	1573.4	1570.8	1408.6	1251.8	1626.6	1950.8	1722.3	2179.4	2288.4	3003.3
55°	1164.1	1249.2	1111.0	1177.4	1017.9	1562.8	1554.8	1966.8	2004.0	2408.0
57.5°	10.6	13.3	31.9	895.7	704.3	781.4	1073.8	1342.2	1408.6	1876.4
60°	2.7	5.3	13.3	26.6	457.1	481.1	717.6	776.1	874.4	1118.9
62.5°	0.0	0.0	5.3	13.3	23.9	196.7	228.6	249.8	385.4	571.4
65°	0.0	0.0	2.7	8.0	13.3	31.9	55.8	116.9	167.4	207.3
67.5°	0.0	0.0	2.7	5.3	10.6	15.9	31.9	45.2	71.8	122.3
70°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	31.9	42.5	61.1
72.5°	0.0	0.0	2.7	5.3	5.3	15.9	15.9	23.9	31.9	39.9
75°	0.0	0.0	2.7	2.7	5.3	10.6	15.9	18.6	21.3	31.9
77.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	21.3	18.6	18.6
80°	0.0	0.0	2.7	8.0	8.0	13.3	15.9	21.3	13.3	13.3
82.5°	0.0	0.0	2.7	10.6	8.0	26.6	26.6	29.2	10.6	10.6
85°	0.0	0.0	8.0	5.3	15.9	26.6	23.9	15.9	13.3	8.0
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	18.6	15.9	5.3	5.3
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°
7803.3	0°	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3	7803.3
7755.5	2.5°	7861.8	7827.3	7899.0	7891.0	7856.5	7840.5	7821.9	7806.0	7689.1
7760.8	5°	7864.5	7811.3	7899.0	7883.1	7877.8	7851.2	7835.2	7859.2	7752.8
7782.1	7.5°	7864.5	7811.3	7907.0	7912.3	7904.3	7883.1	7880.4	7896.4	7808.7
7819.3	10°	7917.6	7896.4	7976.1	7984.1	7973.4	7968.1	7954.8	7944.2	7851.2
7946.9	12.5°	8029.3	7986.7	8077.1	8101.0	8093.0	8106.3	8074.4	8090.4	7994.7
8077.1	15°	8164.8	8167.5	8236.6	8289.7	8284.4	8326.9	8279.1	8321.6	8252.5
8225.9	17.5°	8372.1	8401.3	8499.7	8579.4	8608.7	8640.5	8608.7	8621.9	8523.6
8061.1	20°	8154.2	8263.1	8736.2	8882.4	8943.5	8972.8	8919.6	8935.6	8837.2
7859.2	22.5°	7957.5	8098.4	8518.3	8975.4	9164.1	9222.6	9204.0	9201.3	9164.1
7460.5	25°	7667.8	7952.2	8140.9	8624.6	9217.3	9323.6	9334.2	9331.6	9275.8
7216.0	27.5°	7311.6	7375.4	7864.5	8159.5	8845.2	9249.2	9233.2	9156.2	9081.7
6708.3	30°	6857.2	7146.9	7367.5	7837.9	8364.1	9020.6	9020.6	8962.1	8885.1
6527.6	32.5°	6625.9	7000.7	7205.3	7375.4	7824.6	8765.5	8871.8	8810.6	8749.5
6386.7	35°	6503.7	6559.5	7037.9	7192.0	7572.1	8273.8	8704.3	8643.2	8598.0
6012.0	37.5°	6235.2	6365.5	6588.7	7000.7	7117.6	7872.4	8481.1	8449.2	8396.0
5525.6	40°	5637.2	5985.4	6328.3	6719.0	6841.2	7356.8	8210.0	8223.3	8151.5
5007.3	42.5°	5283.7	5520.3	6057.2	6320.3	6649.8	7024.6	7946.9	7968.1	7917.6
4744.2	45°	4869.1	5132.2	5509.6	5988.1	6437.2	6567.5	7481.7	7705.0	7662.5
4220.6	47.5°	4489.0	4701.7	5164.1	5647.9	6144.9	6126.3	6947.5	7367.5	7309.0
3819.3	50°	3949.5	4321.6	4539.5	4983.4	5724.9	5775.4	6378.8	6971.4	6923.6
3245.2	52.5°	3330.2	3798.0	4215.3	4621.9	5299.7	5419.3	5849.8	6567.5	6535.6
2479.7	55°	2910.3	3250.5	3720.9	4047.8	4784.1	5103.0	5453.8	6182.1	6166.1
2038.5	57.5°	2070.4	2726.9	3115.0	3572.1	3960.1	4536.9	4797.4	5398.0	5249.2
1129.6	60°	1403.3	1711.6	2184.7	2676.4	2936.9	3513.6	3755.5	4236.6	4196.7
675.1	62.5°	741.5	1025.9	1363.5	1610.6	1799.3	2360.1	2461.1	2979.4	2966.1
271.1	65°	326.9	433.2	738.9	866.4	1060.5	1320.9	1408.6	1594.7	1549.5
132.9	67.5°	170.1	257.8	417.3	513.0	645.8	744.2	815.9	874.4	911.6
87.7	70°	103.7	188.7	257.8	356.1	443.9	523.6	579.4	659.1	707.0
45.2	72.5°	77.1	119.6	178.1	273.8	321.6	414.6	470.4	528.9	571.4
37.2	75°	42.5	79.7	143.5	215.3	257.8	337.5	388.0	427.9	441.2
21.3	77.5°	26.6	61.1	119.6	167.4	202.0	273.8	260.5	297.7	329.6
15.9	80°	18.6	45.2	93.0	138.2	140.9	175.4	207.3	239.2	260.5
10.6	82.5°	13.3	37.2	69.1	106.3	93.0	135.5	162.1	186.0	135.5
8.0	85°	10.6	26.6	34.6	63.8	53.2	95.7	82.4	79.7	53.2
5.3	87.5°	8.0	13.3	23.9	29.2	21.3	21.3	26.6	31.9	26.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7803.3
7609.3
7662.5
7707.7
7774.1
7909.7
8138.2
8438.6
8768.1
9044.5
9190.7
9023.3
8855.8
8699.0
8534.2
8342.9
8135.6
7912.3
7667.8
7351.5
6931.6
6556.8
6184.7
5233.2
4199.3
2968.8
1530.9
911.6
709.6
579.4
433.2
334.9
263.1
98.3
53.2
26.6
0.0

(END OF REPORT)