

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: P636966

Luminaire Tested: **IFLD-L-SA8B-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636966
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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: 21675.4 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

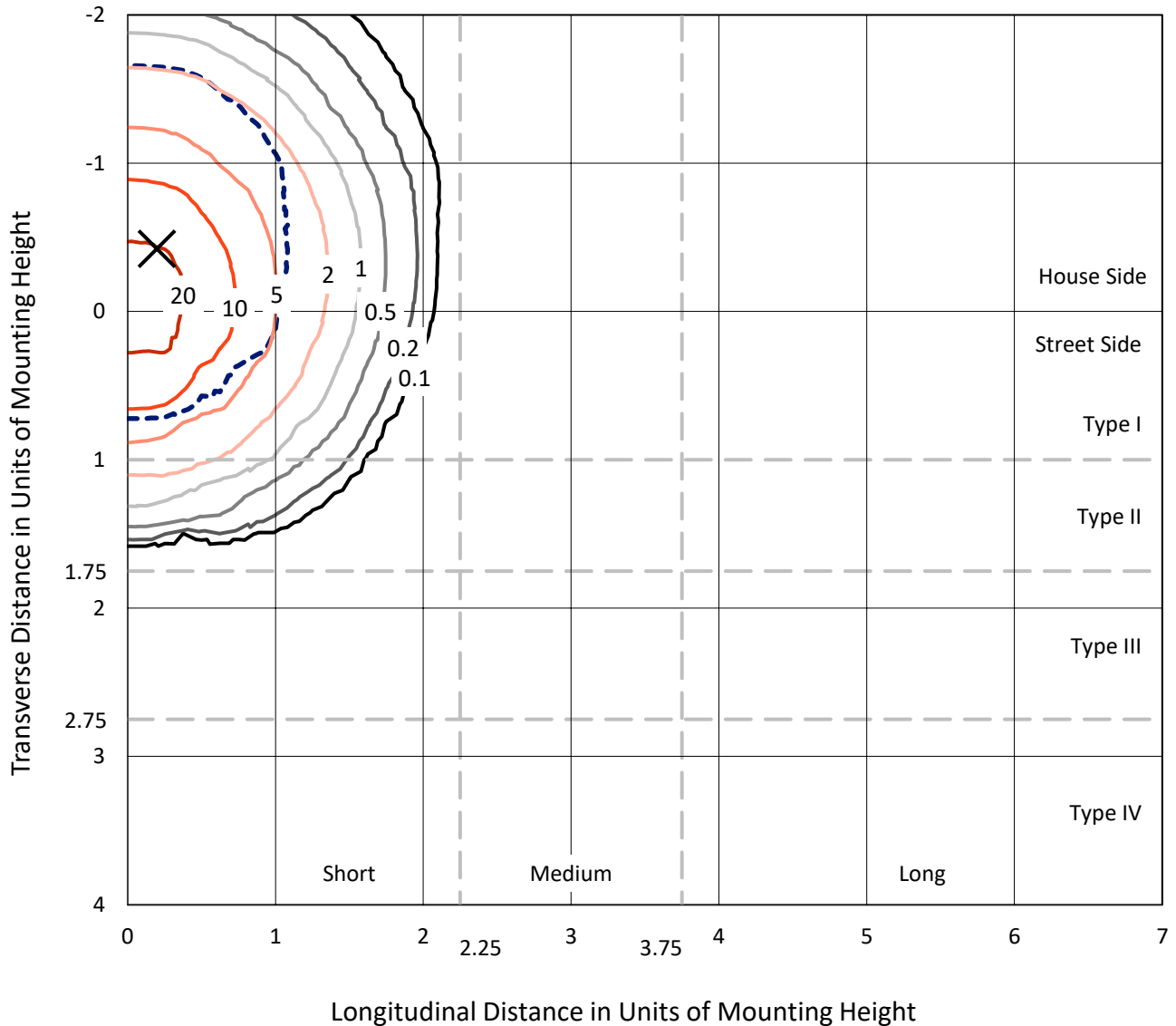
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

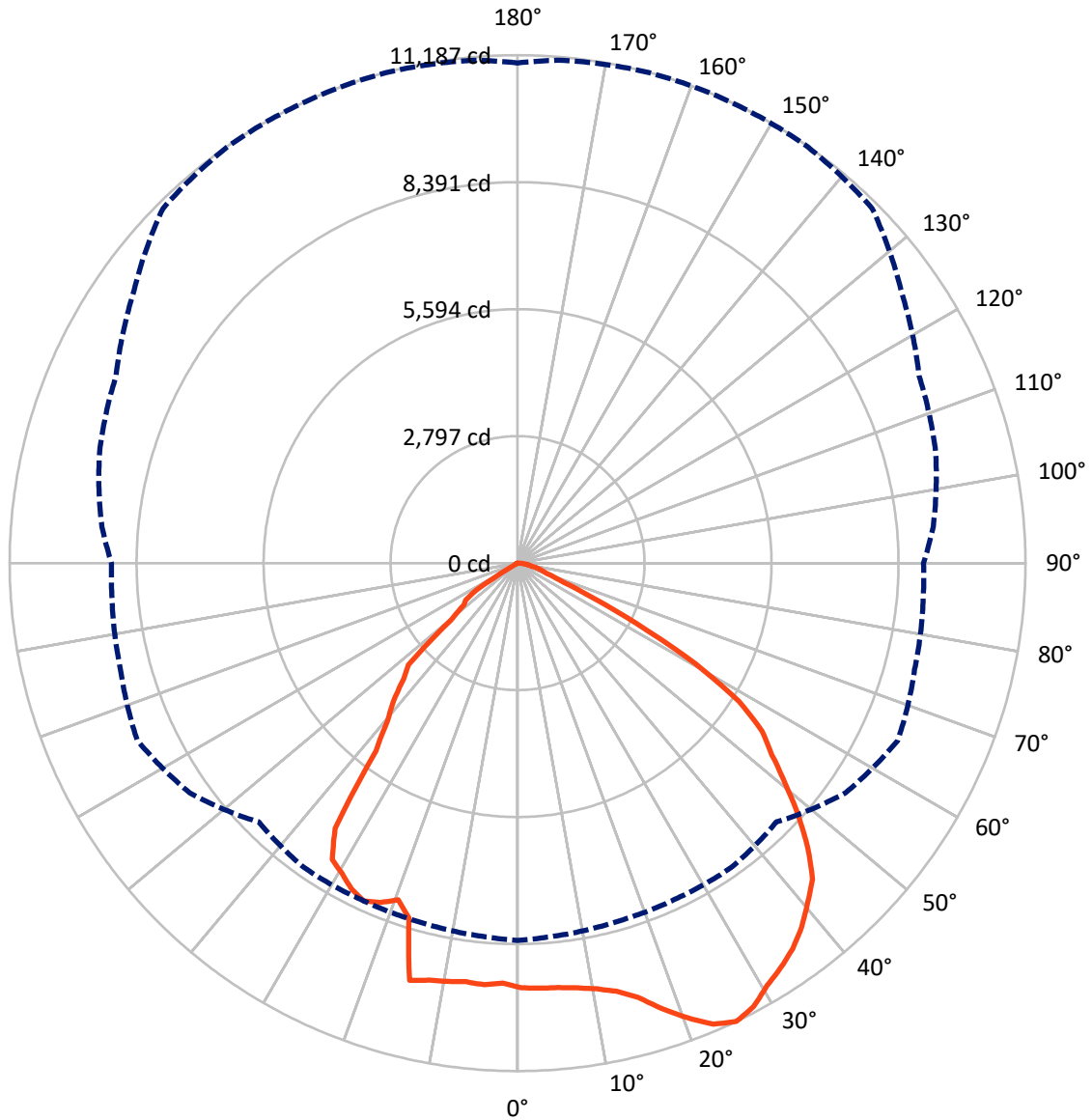
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.4 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	13419.3	0.0	13419.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8256.1	0.0	8256.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	21675.4	0.0	21675.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.3	4.1
10°-20°	2739.7	12.6
20°-30°	4331.3	20.0
30°-40°	4892.6	22.6
40°-50°	4582.0	21.1
50°-60°	3159.0	14.6
60°-70°	848.7	3.9
70°-80°	176.9	0.8
80°-90°	47.9	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°	21675.4	100.0
0°-180°	21675.4	100.0



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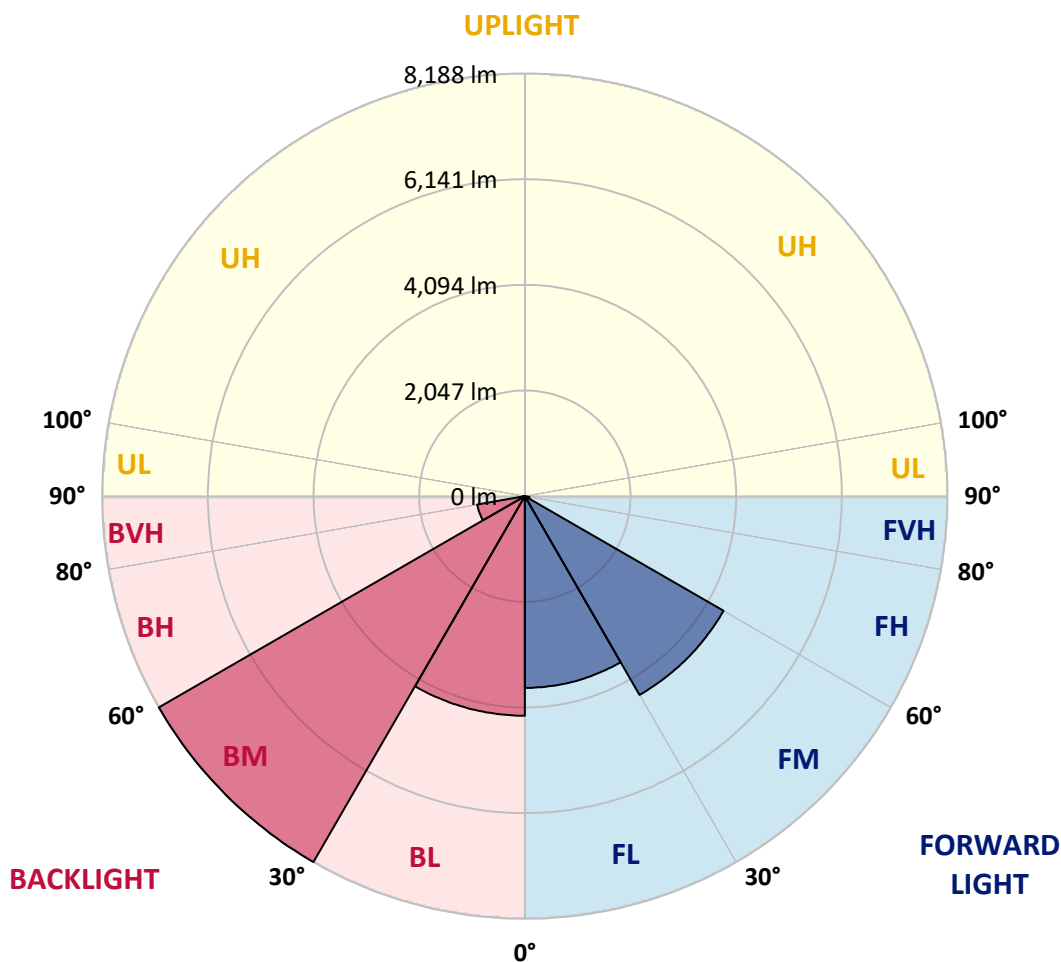
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3714.5	17.1			
FM	(30°-60°)	4446.1	20.5			
FH	(60°-80°)	89.1	0.4			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	4253.8	19.6	B4/5000		
BM	(30°-60°)	8187.6	37.8	B4/8500		
BH	(60°-80°)	936.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	41.4	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°	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6
2.5°	9394.0	9333.4	9276.1	9257.0	9336.6	9422.6	9368.5	9371.7	9352.6	9387.6
5°	9464.0	9381.2	9343.0	9314.3	9327.1	9416.3	9339.8	9368.5	9336.6	9378.0
7.5°	9438.6	9381.2	9343.0	9288.8	9330.3	9435.4	9362.1	9365.3	9349.4	9387.6
10°	9422.6	9381.2	9333.4	9339.8	9387.6	9476.8	9419.4	9451.3	9429.0	9451.3
12.5°	9460.9	9416.3	9390.8	9390.8	9432.2	9534.1	9505.5	9534.1	9524.6	9543.7
15°	9100.9	9142.3	9384.4	9492.7	9575.5	9677.5	9664.7	9693.4	9699.8	9728.4
17.5°	7677.0	7635.6	7616.5	8173.9	9655.2	9970.5	9961.0	9957.8	9925.9	9903.6
20°	7864.9	7849.0	7826.7	7868.1	8033.8	10123.4	10187.1	9795.3	9680.7	9671.1
22.5°	8164.4	8138.9	8056.1	8059.3	8110.2	8801.5	9871.8	9515.0	9476.8	9454.5
25°	8310.9	8259.9	8193.0	8173.9	8189.9	8062.4	8817.4	9241.1	9053.1	8967.1
27.5°	8052.9	8056.1	8001.9	8052.9	7992.4	7419.0	7097.2	8705.9	8699.5	8661.3
30°	7858.6	7849.0	7785.3	7849.0	7431.7	6791.4	6654.5	8119.8	8052.9	8001.9
32.5°	7262.9	7269.3	7454.0	7702.5	7017.6	6511.1	6097.0	7253.3	7887.2	7858.6
35°	5195.5	5208.3	5864.5	7090.9	6390.1	5953.7	5921.8	6269.0	7626.0	7638.8
37.5°	5001.2	5001.2	4985.3	5186.0	5896.3	5727.5	5791.2	5756.2	6985.7	7017.6
40°	4861.0	4832.4	4810.1	4494.7	4099.7	5568.2	5612.8	5453.5	6603.5	6609.9
42.5°	4692.2	4660.3	4666.7	4083.8	3669.7	5173.2	5049.0	4835.6	5966.4	5972.8
45°	4383.2	4437.4	4475.6	3574.1	3542.2	3695.2	4657.2	4523.4	5536.4	5654.2
47.5°	2229.8	2277.6	3494.5	3287.4	3360.7	3284.2	3934.1	3937.2	4606.2	4998.0
50°	2022.8	2010.0	2013.2	1917.7	3102.7	2656.7	2844.6	3609.1	3688.8	4249.4
52.5°	1885.8	1882.6	1688.3	1500.4	1949.5	2338.1	2064.2	2612.1	2742.7	3599.6
55°	1395.2	1497.2	1331.5	1411.2	1220.0	1873.1	1863.5	2357.3	2401.8	2886.0
57.5°	12.7	15.9	38.2	1073.5	844.2	936.5	1286.9	1608.7	1688.3	2248.9
60°	3.2	6.4	15.9	31.9	547.9	576.6	860.1	930.2	1048.0	1341.1
62.5°	0.0	0.0	6.4	15.9	28.7	235.7	274.0	299.4	461.9	684.9
65°	0.0	0.0	3.2	9.6	15.9	38.2	66.9	140.2	200.7	248.5
67.5°	0.0	0.0	3.2	6.4	12.7	19.1	38.2	54.2	86.0	146.5
70°	0.0	0.0	3.2	6.4	9.6	15.9	25.5	38.2	51.0	73.3
72.5°	0.0	0.0	3.2	6.4	6.4	19.1	19.1	28.7	38.2	47.8
75°	0.0	0.0	3.2	3.2	6.4	12.7	19.1	22.3	25.5	38.2
77.5°	0.0	0.0	3.2	6.4	9.6	12.7	15.9	25.5	22.3	22.3
80°	0.0	0.0	3.2	9.6	9.6	15.9	19.1	25.5	15.9	15.9
82.5°	0.0	0.0	3.2	12.7	9.6	31.9	31.9	35.0	12.7	12.7
85°	0.0	0.0	9.6	6.4	19.1	31.9	28.7	19.1	15.9	9.6
87.5°	0.0	0.0	3.2	3.2	6.4	9.6	22.3	19.1	6.4	6.4
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°
9352.6	0°	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6	9352.6
9295.2	2.5°	9422.6	9381.2	9467.2	9457.7	9416.3	9397.2	9374.9	9355.7	9215.6
9301.6	5°	9425.8	9362.1	9467.2	9448.1	9441.7	9409.9	9390.8	9419.4	9292.0
9327.1	7.5°	9425.8	9362.1	9476.8	9483.2	9473.6	9448.1	9444.9	9464.0	9358.9
9371.7	10°	9489.5	9464.0	9559.6	9569.2	9556.4	9550.1	9534.1	9521.4	9409.9
9524.6	12.5°	9623.3	9572.4	9680.7	9709.3	9699.8	9715.7	9677.5	9696.6	9581.9
9680.7	15°	9785.8	9789.0	9871.8	9935.5	9929.1	9980.1	9922.8	9973.7	9890.9
9859.0	17.5°	10034.2	10069.3	10187.1	10282.7	10317.8	10356.0	10317.8	10333.7	10215.8
9661.5	20°	9773.0	9903.6	10470.7	10645.9	10719.1	10754.2	10690.5	10709.6	10591.7
9419.4	22.5°	9537.3	9706.1	10209.4	10757.3	10983.5	11053.6	11031.3	11028.1	10983.5
8941.6	25°	9190.1	9530.9	9757.1	10336.9	11047.2	11174.6	11187.4	11184.2	11117.3
8648.6	27.5°	8763.2	8839.7	9425.8	9779.4	10601.3	11085.5	11066.3	10974.0	10884.8
8040.1	30°	8218.5	8565.7	8830.1	9394.0	10024.7	10811.5	10811.5	10741.4	10649.0
7823.5	32.5°	7941.4	8390.5	8635.8	8839.7	9378.0	10505.7	10633.1	10559.8	10486.6
7654.7	35°	7794.9	7861.8	8435.1	8619.9	9075.4	9916.4	10432.4	10359.2	10305.0
7205.5	37.5°	7473.1	7629.2	7896.8	8390.5	8530.7	9435.4	10164.9	10126.6	10062.9
6622.6	40°	6756.4	7173.7	7584.6	8052.9	8199.4	8817.4	9839.9	9855.9	9769.9
6001.4	42.5°	6332.7	6616.2	7259.7	7575.1	7970.1	8419.2	9524.6	9550.1	9489.5
5686.1	45°	5835.8	6151.2	6603.5	7176.9	7715.2	7871.3	8967.1	9234.7	9183.7
5058.5	47.5°	5380.3	5635.1	6189.4	6769.1	7364.8	7342.5	8326.8	8830.1	8760.1
4577.5	50°	4733.6	5179.6	5440.8	5972.8	6861.5	6922.0	7645.1	8355.5	8298.2
3889.5	52.5°	3991.4	4552.0	5052.2	5539.5	6351.8	6495.2	7011.2	7871.3	7833.1
2972.0	55°	3488.1	3895.8	4459.7	4851.5	5733.9	6116.1	6536.6	7409.4	7390.3
2443.3	57.5°	2481.5	3268.3	3733.4	4281.3	4746.4	5437.6	5749.8	6469.7	6291.3
1353.8	60°	1681.9	2051.4	2618.5	3207.8	3519.9	4211.2	4501.1	5077.6	5029.9
809.1	62.5°	888.7	1229.6	1634.1	1930.4	2156.6	2828.7	2949.7	3570.9	3555.0
324.9	65°	391.8	519.2	885.6	1038.5	1271.0	1583.2	1688.3	1911.3	1857.1
159.3	67.5°	203.9	309.0	500.1	614.8	774.1	891.9	977.9	1048.0	1092.6
105.1	70°	124.2	226.2	309.0	426.9	532.0	627.5	694.4	790.0	847.3
54.2	72.5°	92.4	143.3	213.4	328.1	385.4	496.9	563.8	633.9	684.9
44.6	75°	51.0	95.6	172.0	258.0	309.0	404.6	465.1	512.9	528.8
25.5	77.5°	31.9	73.3	143.3	200.7	242.1	328.1	312.2	356.8	395.0
19.1	80°	22.3	54.2	111.5	165.6	168.8	210.2	248.5	286.7	312.2
12.7	82.5°	15.9	44.6	82.8	127.4	111.5	162.5	194.3	223.0	162.5
9.6	85°	12.7	31.9	41.4	76.5	63.7	114.7	98.7	95.6	63.7
6.4	87.5°	9.6	15.9	28.7	35.0	25.5	25.5	31.9	38.2	31.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9352.6
9120.0
9183.7
9237.9
9317.5
9480.0
9753.9
10113.9
10508.9
10840.2
<i>11015.4</i>
10814.7
10614.0
10426.1
10228.6
9999.2
9750.7
9483.2
9190.1
8811.0
8307.7
7858.6
7412.6
6272.2
5033.1
3558.2
1834.8
1092.6
850.5
694.4
519.2
401.4
315.4
117.9
63.7
31.9
0.0

(END OF REPORT)