

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: P636928

Luminaire Tested: **IFLD-M-SA4C-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13914.2 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

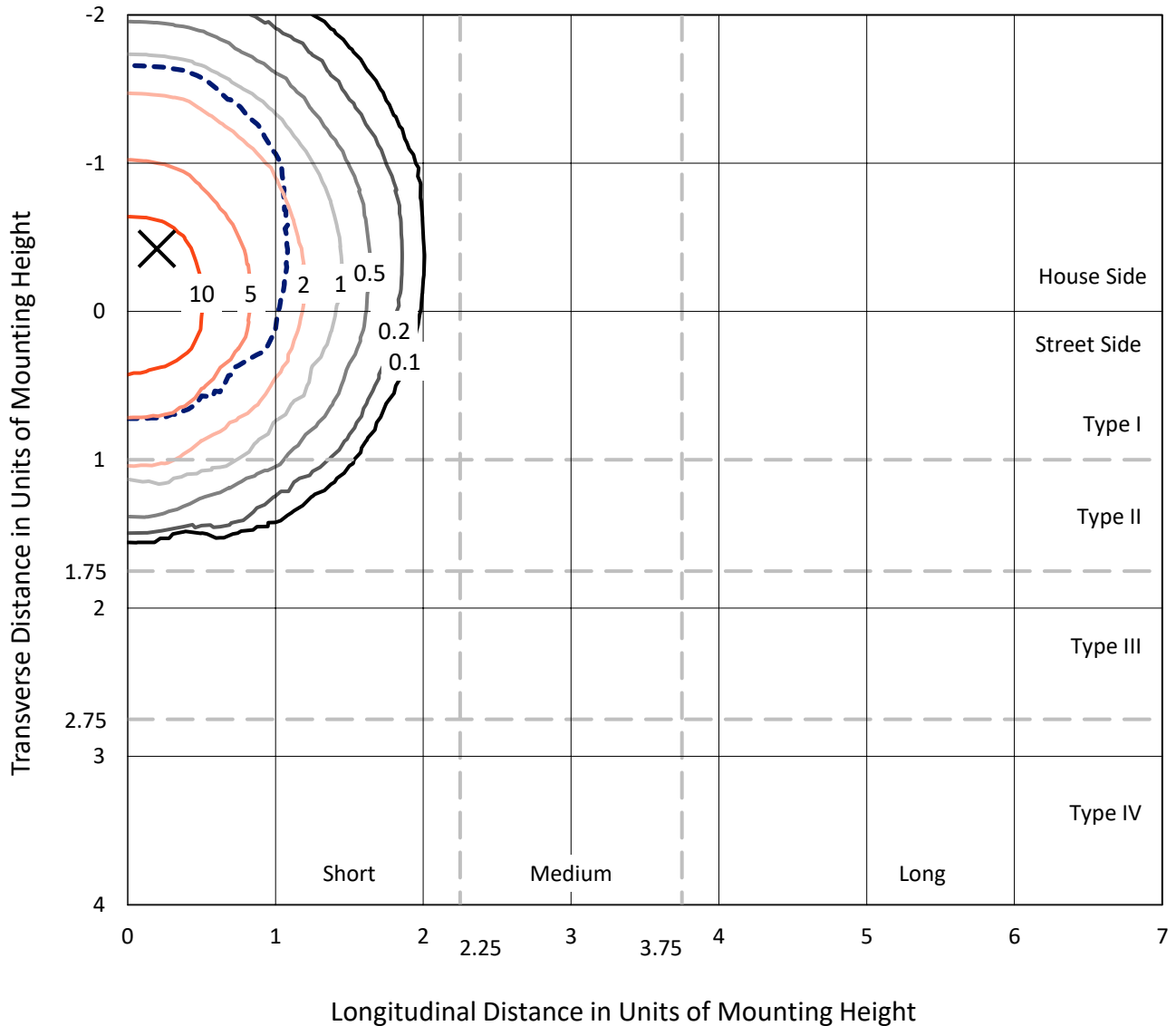
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

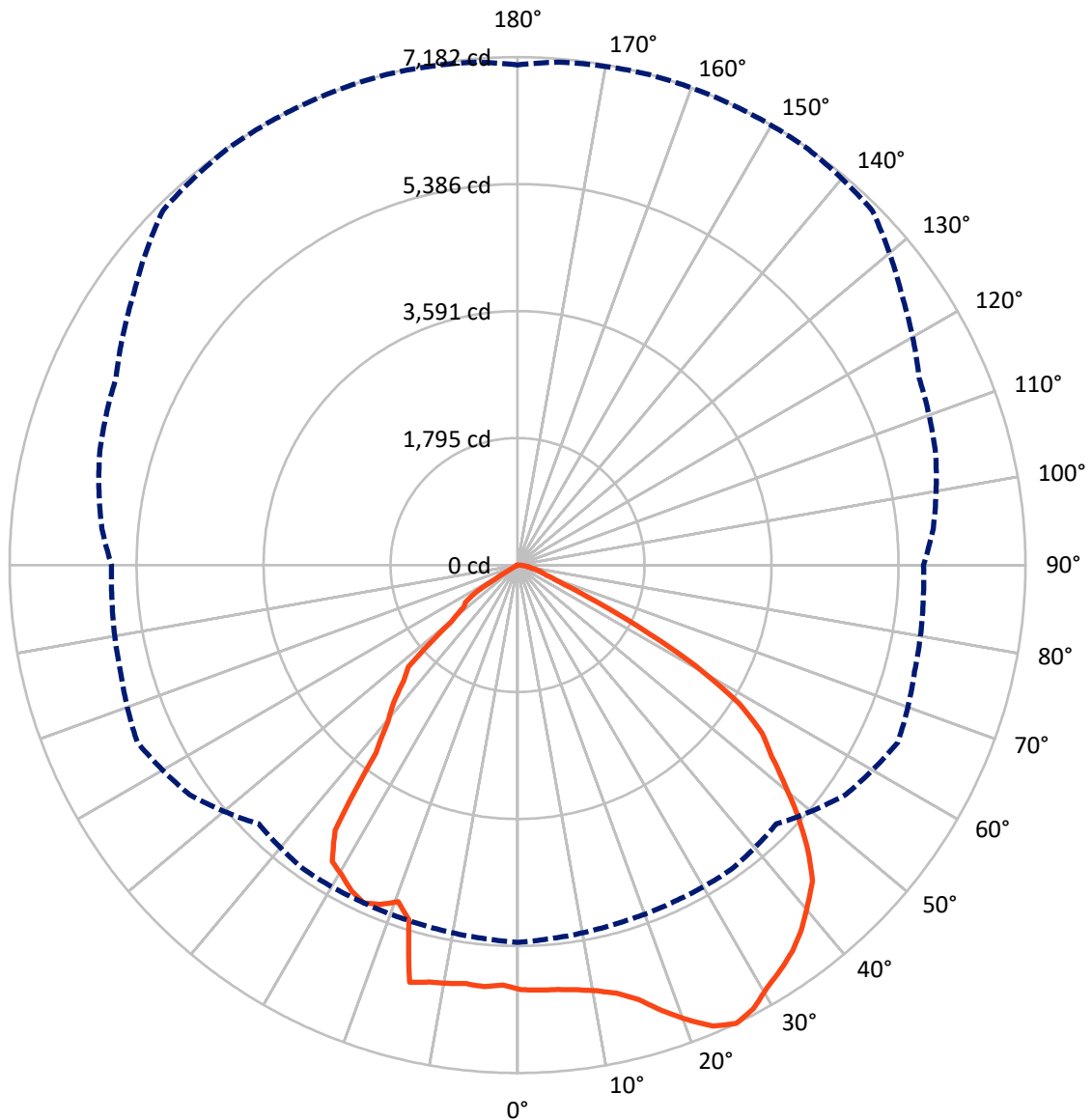
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15 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	8614.3	0.0	8614.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5299.9	0.0	5299.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	13914.2	0.0	13914.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.0	4.1
10°-20°	1758.7	12.6
20°-30°	2780.4	20.0
30°-40°	3140.8	22.6
40°-50°	2941.4	21.1
50°-60°	2027.9	14.6
60°-70°	544.8	3.9
70°-80°	113.5	0.8
80°-90°	30.7	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°	13914.2	100.0
0°-180°	13914.2	100.0



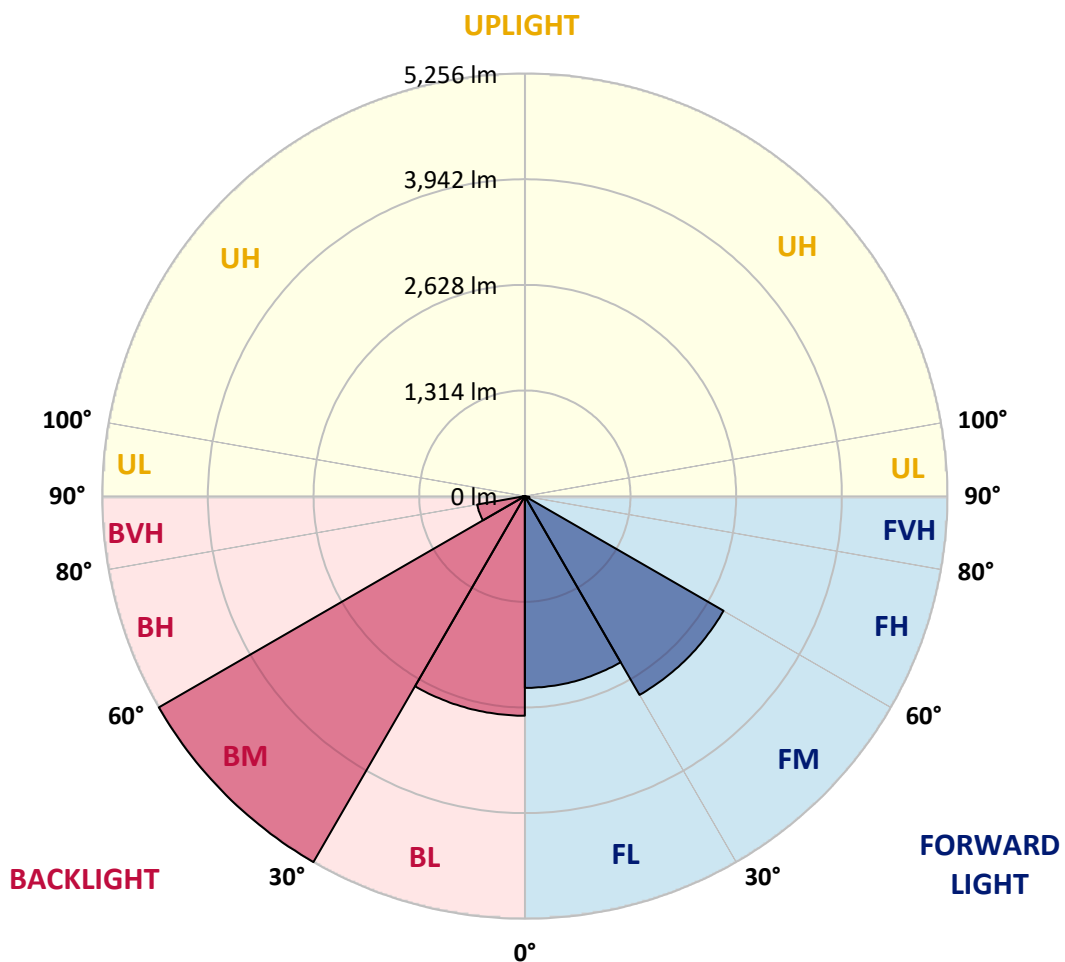
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.5	17.1			
FM	(30°-60°)	2854.1	20.5			
FH	(60°-80°)	57.2	0.4			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	2730.7	19.6	B4/5000		
BM	(30°-60°)	5255.9	37.8	B4/8500		
BH	(60°-80°)	601.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.6	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°	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7
2.5°	6030.3	5991.5	5954.7	5942.4	5993.5	6048.7	6014.0	6016.0	6003.7	6026.2
5°	6075.3	6022.2	5997.6	5979.2	5987.4	6044.6	5995.6	6014.0	5993.5	6020.1
7.5°	6059.0	6022.2	5997.6	5962.9	5989.4	6056.9	6009.9	6011.9	6001.7	6026.2
10°	6048.7	6022.2	5991.5	5995.6	6026.2	6083.5	6046.7	6067.1	6052.8	6067.1
12.5°	6073.3	6044.6	6028.3	6028.3	6054.9	6120.3	6101.9	6120.3	6114.2	6126.4
15°	5842.2	5868.8	6024.2	6093.7	6146.9	6212.3	6204.1	6222.6	6226.6	6245.0
17.5°	4928.1	4901.6	4889.3	5247.1	6198.0	6400.5	6394.3	6392.3	6371.8	6357.5
20°	5048.8	5038.6	5024.3	5050.8	5157.2	6498.6	6539.5	6288.0	6214.4	6208.2
22.5°	5241.0	5224.7	5171.5	5173.5	5206.2	5650.0	6337.1	6108.0	6083.5	6069.2
25°	5335.1	5302.4	5259.4	5247.1	5257.4	5175.6	5660.2	5932.2	5811.5	5756.3
27.5°	5169.4	5171.5	5136.7	5169.4	5130.6	4762.5	4556.0	5588.6	5584.6	5560.0
30°	5044.7	5038.6	4997.7	5038.6	4770.7	4359.7	4271.7	5212.4	5169.4	5136.7
32.5°	4662.3	4666.4	4785.0	4944.5	4504.9	4179.7	3913.9	4656.2	5063.1	5044.7
35°	3335.2	3343.4	3764.6	4551.9	4102.0	3821.9	3801.4	4024.3	4895.4	4903.6
37.5°	3210.5	3210.5	3200.2	3329.1	3785.1	3676.7	3717.6	3695.1	4484.4	4504.9
40°	3120.5	3102.1	3087.8	2885.3	2631.8	3574.4	3603.1	3500.8	4239.0	4243.1
42.5°	3012.1	2991.7	2995.7	2621.5	2355.7	3320.9	3241.1	3104.1	3830.0	3834.1
45°	2813.7	2848.5	2873.0	2294.3	2273.9	2372.1	2989.6	2903.7	3554.0	3629.7
47.5°	1431.4	1462.1	2243.2	2110.3	2157.3	2108.3	2525.4	2527.5	2956.9	3208.4
50°	1298.5	1290.3	1292.4	1231.0	1991.7	1705.4	1826.1	2316.8	2368.0	2727.9
52.5°	1210.6	1208.5	1083.8	963.1	1251.5	1500.9	1325.1	1676.8	1760.6	2310.7
55°	895.7	961.1	854.8	905.9	783.2	1202.4	1196.3	1513.2	1541.8	1852.7
57.5°	8.2	10.2	24.5	689.1	541.9	601.2	826.1	1032.7	1083.8	1443.7
60°	2.0	4.1	10.2	20.4	351.7	370.1	552.1	597.1	672.8	860.9
62.5°	0.0	0.0	4.1	10.2	18.4	151.3	175.9	192.2	296.5	439.6
65°	0.0	0.0	2.0	6.1	10.2	24.5	42.9	90.0	128.8	159.5
67.5°	0.0	0.0	2.0	4.1	8.2	12.3	24.5	34.8	55.2	94.1
70°	0.0	0.0	2.0	4.1	6.1	10.2	16.4	24.5	32.7	47.0
72.5°	0.0	0.0	2.0	4.1	4.1	12.3	12.3	18.4	24.5	30.7
75°	0.0	0.0	2.0	2.0	4.1	8.2	12.3	14.3	16.4	24.5
77.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	16.4	14.3	14.3
80°	0.0	0.0	2.0	6.1	6.1	10.2	12.3	16.4	10.2	10.2
82.5°	0.0	0.0	2.0	8.2	6.1	20.4	20.4	22.5	8.2	8.2
85°	0.0	0.0	6.1	4.1	12.3	20.4	18.4	12.3	10.2	6.1
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	14.3	12.3	4.1	4.1
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°
6003.7	0°	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7	6003.7
5966.9	2.5°	6048.7	6022.2	6077.4	6071.2	6044.6	6032.4	6018.1	6005.8	5915.8
5971.0	5°	6050.8	6009.9	6077.4	6065.1	6061.0	6040.6	6028.3	6046.7	5964.9
5987.4	7.5°	6050.8	6009.9	6083.5	6087.6	6081.5	6065.1	6063.1	6075.3	6007.8
6016.0	10°	6091.7	6075.3	6136.7	6142.8	6134.6	6130.5	6120.3	6112.1	6040.6
6114.2	12.5°	6177.6	6144.8	6214.4	6232.8	6226.6	6236.9	6212.3	6224.6	6151.0
6214.4	15°	6281.9	6283.9	6337.1	6378.0	6373.9	6406.6	6369.8	6402.5	6349.3
6328.9	17.5°	6441.4	6463.8	6539.5	6600.9	6623.3	6647.9	6623.3	6633.6	6557.9
6202.1	20°	6273.7	6357.5	6721.5	6834.0	6881.0	6903.5	6862.6	6874.9	6799.2
6046.7	22.5°	6122.4	6230.7	6553.8	6905.5	7050.7	7095.7	7081.4	7079.4	7050.7
5740.0	25°	5899.5	6118.3	6263.4	6635.6	7091.6	7173.4	7181.6	7179.6	7136.6
5551.8	27.5°	5625.4	5674.5	6050.8	6277.8	6805.3	7116.2	7103.9	7044.6	6987.3
5161.3	30°	5275.8	5498.7	5668.4	6030.3	6435.2	6940.3	6940.3	6895.3	6836.0
5022.2	32.5°	5097.9	5386.2	5543.7	5674.5	6020.1	6744.0	6825.8	6778.8	6731.7
4913.8	35°	5003.8	5046.7	5414.8	5533.4	5825.8	6365.7	6697.0	6649.9	6615.2
4625.5	37.5°	4797.3	4897.5	5069.2	5386.2	5476.2	6056.9	6525.2	6500.7	6459.8
4251.3	40°	4337.2	4605.1	4868.8	5169.4	5263.5	5660.2	6316.6	6326.8	6271.6
3852.5	42.5°	4065.2	4247.2	4660.3	4862.7	5116.3	5404.6	6114.2	6130.5	6091.7
3650.1	45°	3746.2	3948.7	4239.0	4607.1	4952.7	5052.9	5756.3	5928.1	5895.4
3247.3	47.5°	3453.8	3617.4	3973.2	4345.4	4727.7	4713.4	5345.3	5668.4	5623.4
2938.5	50°	3038.7	3325.0	3492.6	3834.1	4404.7	4443.5	4907.7	5363.7	5326.9
2496.8	52.5°	2562.2	2922.1	3243.2	3556.0	4077.5	4169.5	4500.8	5052.9	5028.3
1907.9	55°	2239.1	2500.9	2862.8	3114.3	3680.8	3926.2	4196.1	4756.4	4744.1
1568.4	57.5°	1593.0	2098.0	2396.6	2748.3	3046.9	3490.6	3691.0	4153.1	4038.6
869.1	60°	1079.7	1316.9	1680.9	2059.2	2259.6	2703.3	2889.4	3259.5	3228.9
519.4	62.5°	570.5	789.3	1049.0	1239.2	1384.4	1815.8	1893.6	2292.3	2282.1
208.6	65°	251.5	333.3	568.5	666.6	815.9	1016.3	1083.8	1226.9	1192.2
102.2	67.5°	130.9	198.4	321.0	394.7	496.9	572.6	627.8	672.8	701.4
67.5	70°	79.8	145.2	198.4	274.0	341.5	402.8	445.8	507.1	543.9
34.8	72.5°	59.3	92.0	137.0	210.6	247.4	319.0	361.9	406.9	439.6
28.6	75°	32.7	61.3	110.4	165.6	198.4	259.7	298.6	329.2	339.4
16.4	77.5°	20.4	47.0	92.0	128.8	155.4	210.6	200.4	229.0	253.6
12.3	80°	14.3	34.8	71.6	106.3	108.4	135.0	159.5	184.0	200.4
8.2	82.5°	10.2	28.6	53.2	81.8	71.6	104.3	124.7	143.1	104.3
6.1	85°	8.2	20.4	26.6	49.1	40.9	73.6	63.4	61.3	40.9
4.1	87.5°	6.1	10.2	18.4	22.5	16.4	16.4	20.4	24.5	20.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6003.7
5854.5
5895.4
5930.1
5981.3
6085.5
6261.4
6492.5
6746.0
6958.7
7071.2
6942.3
6813.5
6692.9
6566.1
6418.9
6259.4
6087.6
5899.5
5656.1
5333.0
5044.7
4758.4
4026.4
3230.9
2284.1
1177.8
701.4
546.0
445.8
333.3
257.7
202.4
75.7
40.9
20.4
0.0

(END OF REPORT)