

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: P636674

Luminaire Tested: **IFLD-L-SA7E-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636674
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32478.8 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

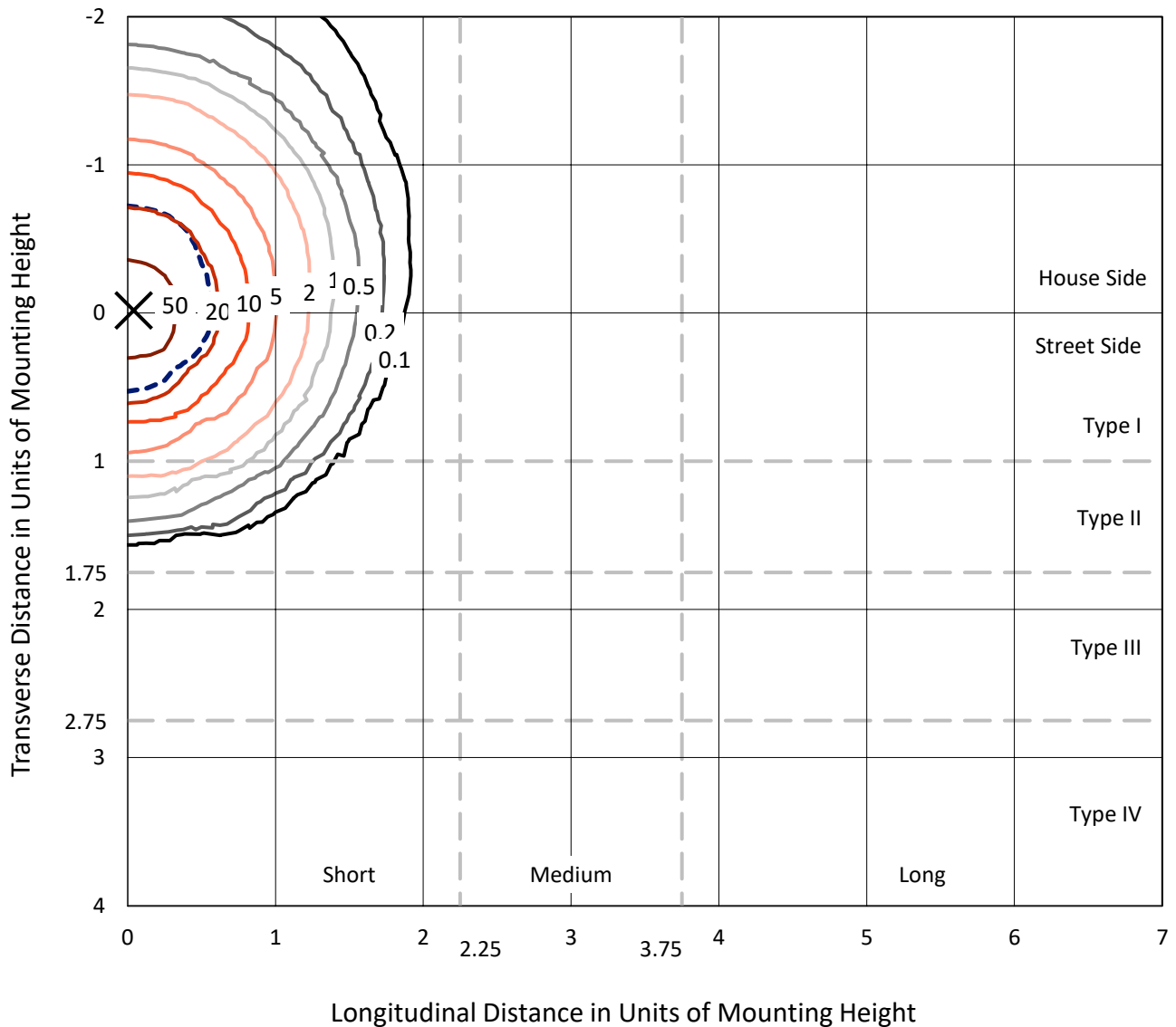
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

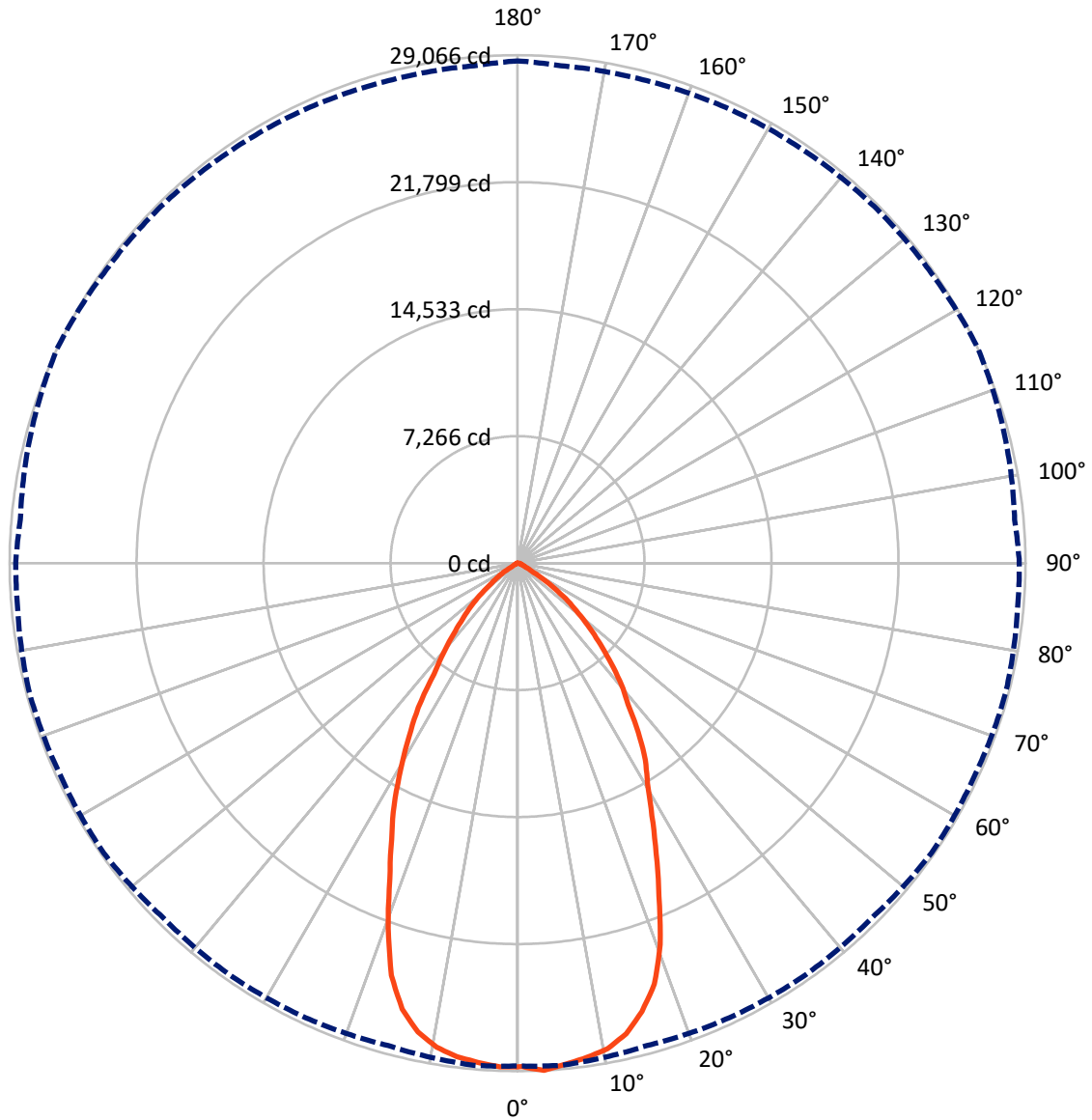
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 72 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18587.2	0.0	18587.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	13891.6	0.0	13891.6
	% Fixture	42.8	0.0	42.8
Total	Lumens	32478.8	0.0	32478.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2714.2	8.4
10°-20°	7196.6	22.2
20°-30°	8231.5	25.3
30°-40°	7054.1	21.7
40°-50°	4664.5	14.4
50°-60°	2035.4	6.3
60°-70°	399.9	1.2
70°-80°	144.3	0.4
80°-90°	38.4	0.1
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°	32478.8	100.0
0°-180°	32478.8	100.0



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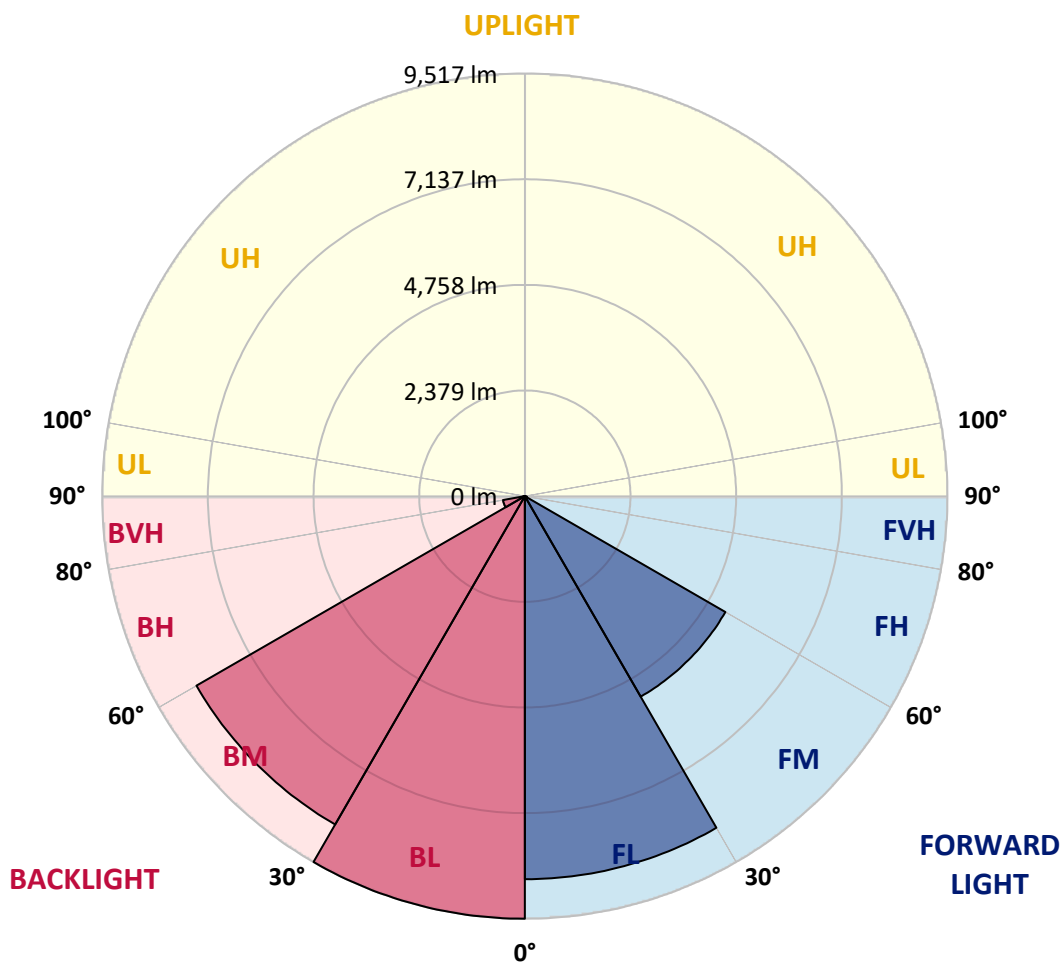
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8625.7	26.6			
FM (30°-60°)	5215.4	16.1			
FH (60°-80°)	44.2	0.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	9516.6	29.3	B5		
BM (30°-60°)	8538.6	26.3	B5		
BH (60°-80°)	500.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	32.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9
2.5°	28775.5	28844.5	28582.2	28699.6	28747.9	28685.8	28913.6	28844.5	28899.8	28727.2
5°	28775.5	28844.5	28540.8	28596.0	28609.8	28492.4	28741.0	28658.1	28665.0	28485.5
7.5°	28596.0	28678.8	28402.7	28444.1	28451.0	28354.4	28568.4	28451.0	28409.6	28223.2
10°	28112.7	28161.1	27912.5	28016.1	28112.7	28023.0	28209.4	28078.2	28078.2	27912.5
12.5°	27346.4	27436.1	27160.0	27284.3	27367.1	27263.5	27477.6	27429.2	27436.1	27270.5
15°	25951.8	25641.1	25972.5	26221.1	26228.0	26207.2	26407.5	26359.1	26393.7	26145.1
17.5°	19172.2	19096.2	19482.8	22417.0	24598.6	24895.5	24930.0	24667.7	24550.3	24308.7
20°	17763.8	17819.0	17736.1	17750.0	19469.0	23038.4	22824.3	22175.4	21878.5	21636.9
22.5°	16735.1	16645.3	16590.1	16555.6	16603.9	18930.5	20470.1	19489.7	19331.0	19213.6
25°	15616.6	15575.2	15506.2	15492.4	15464.8	15071.2	17287.4	17377.1	17121.7	16976.7
27.5°	14574.2	14546.5	14470.6	14463.7	14146.1	13193.4	13435.0	15568.3	15499.3	15444.0
30°	13462.6	13407.4	13366.0	13366.0	12406.3	11426.0	11032.5	13573.1	13573.1	13524.8
32.5°	12254.4	12206.1	12219.9	12054.2	10908.2	10010.7	9389.3	11715.9	12440.8	12399.4
35°	7490.7	7476.9	8878.4	10721.8	9375.5	8560.9	8519.4	10024.5	11080.8	11191.2
37.5°	6669.2	6627.8	6648.5	6765.8	8029.2	7704.8	7691.0	7946.4	9430.7	9486.0
40°	5985.7	5958.1	5937.4	5516.2	5115.8	6876.3	6828.0	6662.3	8056.9	8153.5
42.5°	5336.7	5309.1	5309.1	4715.4	4066.4	5654.3	5675.0	5481.7	6793.4	6828.0
45°	4667.0	4646.3	4529.0	3762.6	3576.2	3755.7	4701.6	4480.6	5392.0	5751.0
47.5°	2202.3	2188.5	3168.9	3127.5	3113.7	3003.2	3590.0	3714.3	4280.4	4639.4
50°	1767.4	1753.6	1670.7	1470.5	2561.4	2278.3	2589.0	2858.2	3037.7	3369.1
52.5°	1463.6	1449.8	1277.2	1132.2	1422.2	1663.8	1546.5	1912.4	1905.5	2264.5
55°	959.6	890.6	980.4	925.1	745.6	1208.2	1180.6	1449.8	1415.3	1726.0
57.5°	20.7	20.7	48.3	524.7	469.5	510.9	676.6	828.5	932.0	1021.8
60°	6.9	6.9	13.8	27.6	193.3	214.0	262.3	303.8	428.0	531.6
62.5°	0.0	0.0	6.9	13.8	27.6	110.5	124.3	145.0	200.2	276.2
65°	0.0	0.0	0.0	6.9	13.8	27.6	41.4	89.8	124.3	158.8
67.5°	0.0	0.0	0.0	6.9	6.9	13.8	27.6	41.4	55.2	110.5
70°	0.0	0.0	0.0	6.9	6.9	13.8	20.7	27.6	41.4	55.2
72.5°	0.0	0.0	0.0	6.9	6.9	20.7	13.8	20.7	27.6	34.5
75°	0.0	0.0	0.0	6.9	6.9	6.9	13.8	20.7	20.7	27.6
77.5°	0.0	0.0	0.0	6.9	13.8	13.8	13.8	13.8	13.8	20.7
80°	0.0	0.0	0.0	6.9	6.9	13.8	20.7	27.6	13.8	13.8
82.5°	0.0	0.0	0.0	13.8	6.9	27.6	41.4	34.5	13.8	6.9
85°	0.0	0.0	0.0	6.9	27.6	34.5	34.5	20.7	6.9	6.9
87.5°	0.0	0.0	0.0	6.9	6.9	13.8	20.7	20.7	6.9	6.9
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°
28816.9	0°	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9	28816.9
28713.4	2.5°	28554.6	28823.8	29065.5	28913.6	28858.3	28747.9	28665.0	28575.3	28568.4
28464.8	5°	28306.0	28561.5	28796.2	28616.7	28630.5	28575.3	28520.1	28499.3	28513.2
28209.4	7.5°	28092.0	28306.0	28561.5	28409.6	28451.0	28416.5	28388.9	28347.5	28409.6
27878.0	10°	27767.5	27960.8	28257.7	28112.7	28092.0	28057.5	28029.9	27953.9	27988.5
27277.4	12.5°	27056.4	27298.1	27636.4	27470.7	27525.9	27429.2	27387.8	27339.5	27346.4
26234.9	15°	26089.9	26276.3	26621.5	26490.3	26531.7	26469.6	26469.6	26469.6	26517.9
24343.2	17.5°	24405.3	24785.0	25330.5	25164.8	25226.9	25240.7	25226.9	25275.2	25337.4
21650.7	20°	21664.5	22313.4	23307.6	23632.1	23763.3	23770.2	23673.5	23790.9	23915.1
19130.7	22.5°	19144.5	19828.0	20704.8	21595.4	22147.7	22120.1	22133.9	22209.9	22341.1
16887.0	25°	16962.9	17618.8	18412.7	19206.7	20414.9	20663.4	20670.3	20739.3	20842.9
15354.3	27.5°	15388.8	15644.3	16369.2	17170.0	18468.0	19261.9	19220.5	19282.6	19393.1
13435.0	30°	13490.2	14470.6	14636.3	15126.5	16244.9	17701.6	17708.5	17777.6	17888.0
12302.8	32.5°	12268.3	12917.2	13428.1	13441.9	14394.7	15892.8	16189.7	16258.7	16334.7
11129.1	35°	11122.2	11198.1	11888.5	12081.8	12634.2	14118.5	14643.2	14684.6	14808.9
9465.3	37.5°	9624.1	10072.8	10266.1	10956.5	10984.1	12185.4	13227.9	13186.5	13283.1
8146.6	40°	8250.2	8678.2	9168.4	9672.4	9741.4	10638.9	11791.9	11833.3	11874.7
6758.9	42.5°	6814.2	7359.6	7863.6	8201.8	8671.3	9189.1	10286.8	10480.1	10576.8
5792.4	45°	5895.9	6047.8	6648.5	7145.5	7621.9	7863.6	8892.2	9244.3	9306.5
4584.2	47.5°	4646.3	5157.2	5564.6	5985.7	6579.4	6793.4	7539.1	8029.2	8077.6
3403.6	50°	3590.0	3955.9	4515.2	4894.9	5585.3	5702.6	6213.5	6848.7	6910.8
2278.3	52.5°	2568.3	3065.3	3610.7	3976.7	4639.4	4791.3	5171.0	5778.6	5820.0
1746.7	55°	1843.3	2167.8	2616.6	3141.3	3624.6	3962.8	4225.2	4805.1	4860.4
1146.0	57.5°	1256.5	1560.3	1746.7	2271.4	2561.4	2927.3	3141.3	3583.1	3624.6
545.4	60°	600.6	745.6	890.6	1153.0	1339.4	1650.0	1788.1	1967.6	2015.9
331.4	62.5°	386.6	455.7	579.9	690.4	869.9	1063.2	1118.4	1270.3	1325.6
207.1	65°	255.4	324.5	455.7	483.3	662.8	814.7	883.7	994.2	1056.3
124.3	67.5°	145.0	227.8	338.3	400.4	524.7	669.7	745.6	842.3	897.5
82.8	70°	96.7	186.4	269.3	331.4	414.2	538.5	635.2	718.0	752.5
41.4	72.5°	55.2	117.4	186.4	262.3	331.4	448.8	538.5	607.5	400.4
27.6	75°	34.5	89.8	158.8	220.9	276.2	359.0	434.9	428.0	179.5
20.7	77.5°	27.6	69.0	138.1	186.4	227.8	248.5	310.7	352.1	138.1
13.8	80°	20.7	55.2	124.3	158.8	89.8	179.5	241.6	262.3	96.7
13.8	82.5°	13.8	34.5	103.6	110.5	62.1	131.2	193.3	172.6	69.0
6.9	85°	6.9	20.7	34.5	62.1	55.2	62.1	48.3	69.0	48.3
6.9	87.5°	6.9	13.8	27.6	27.6	27.6	20.7	27.6	27.6	27.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28816.9
28734.1
28685.8
28582.2
28154.2
27546.6
26538.6
25544.5
23998.0
22361.8
21022.4
19496.6
18081.3
16507.3
14940.1
13400.5
12005.9
10714.9
9458.4
8194.9
7000.6
5895.9
4908.7
3707.4
2071.2
1339.4
1056.3
890.6
745.6
324.5
179.5
138.1
103.6
69.0
48.3
27.6
0.0

(END OF REPORT)