

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: P636678

Luminaire Tested: **IFLD-L-SA8D-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32073.9 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

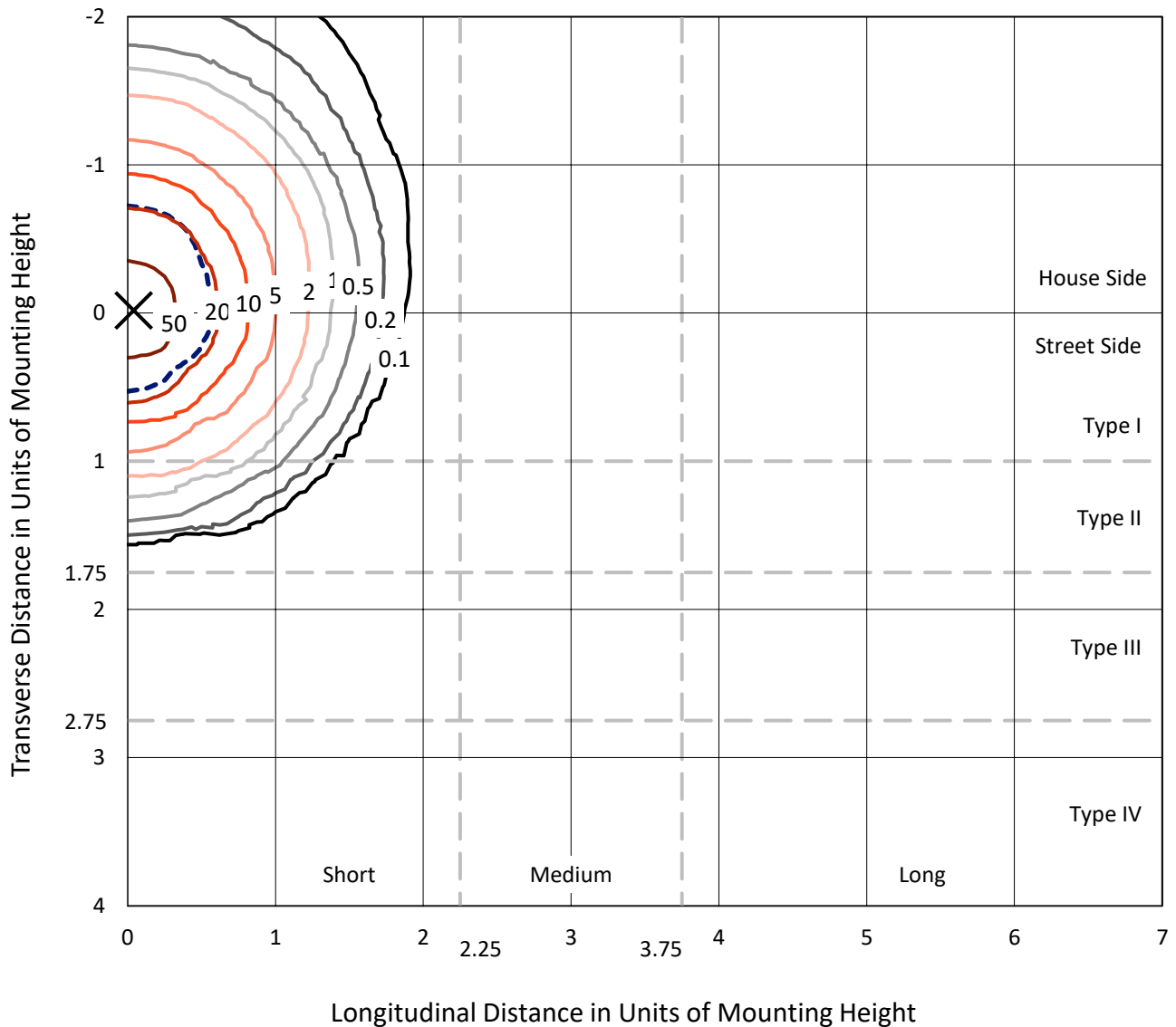
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

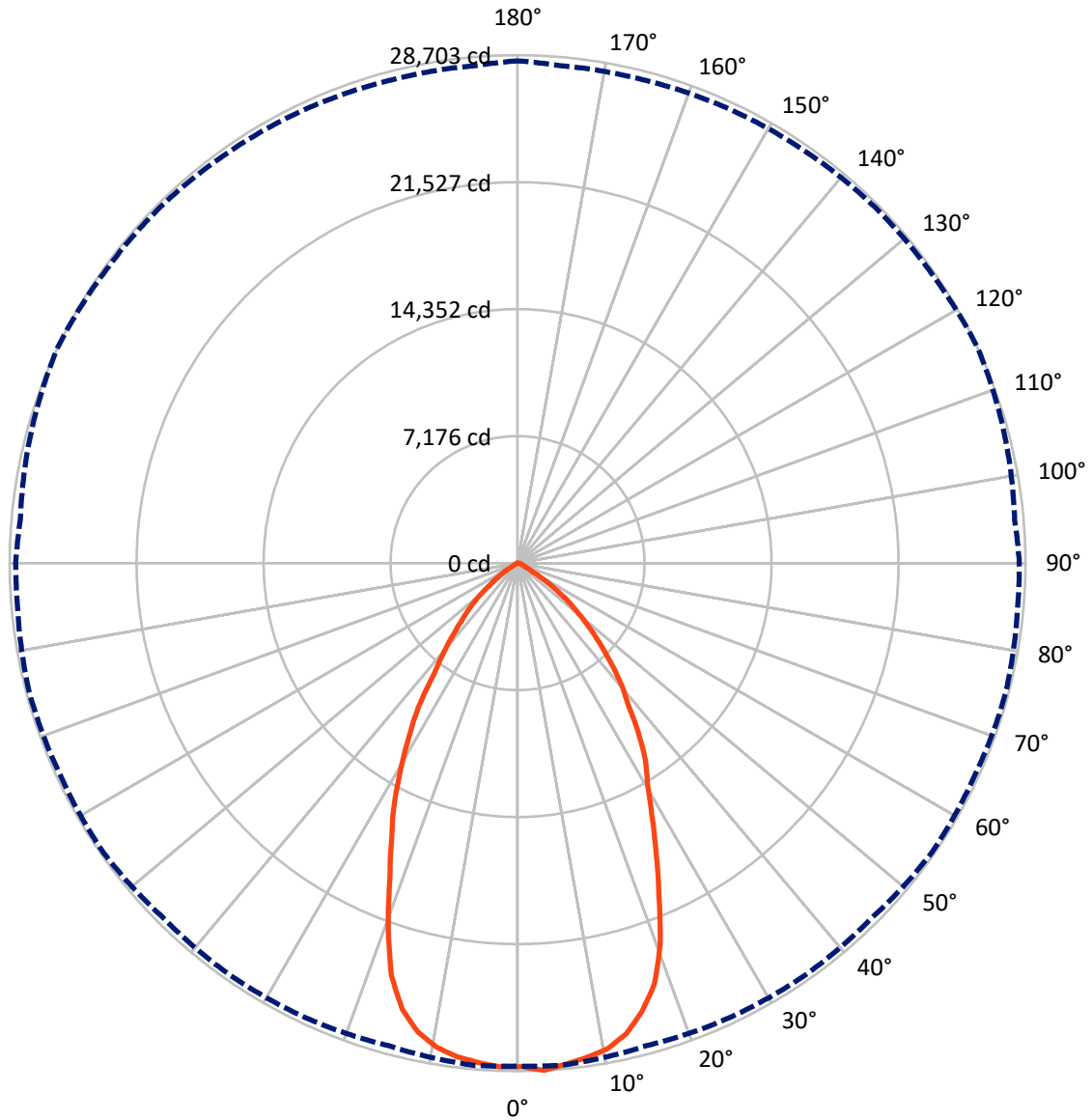
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.1 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	18355.5	0.0	18355.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	13718.4	0.0	13718.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	32073.9	0.0	32073.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2680.4	8.4
10°-20°	7106.9	22.2
20°-30°	8128.9	25.3
30°-40°	6966.2	21.7
40°-50°	4606.3	14.4
50°-60°	2010.0	6.3
60°-70°	394.9	1.2
70°-80°	142.5	0.4
80°-90°	37.9	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°	32073.9	100.0
0°-180°	32073.9	100.0



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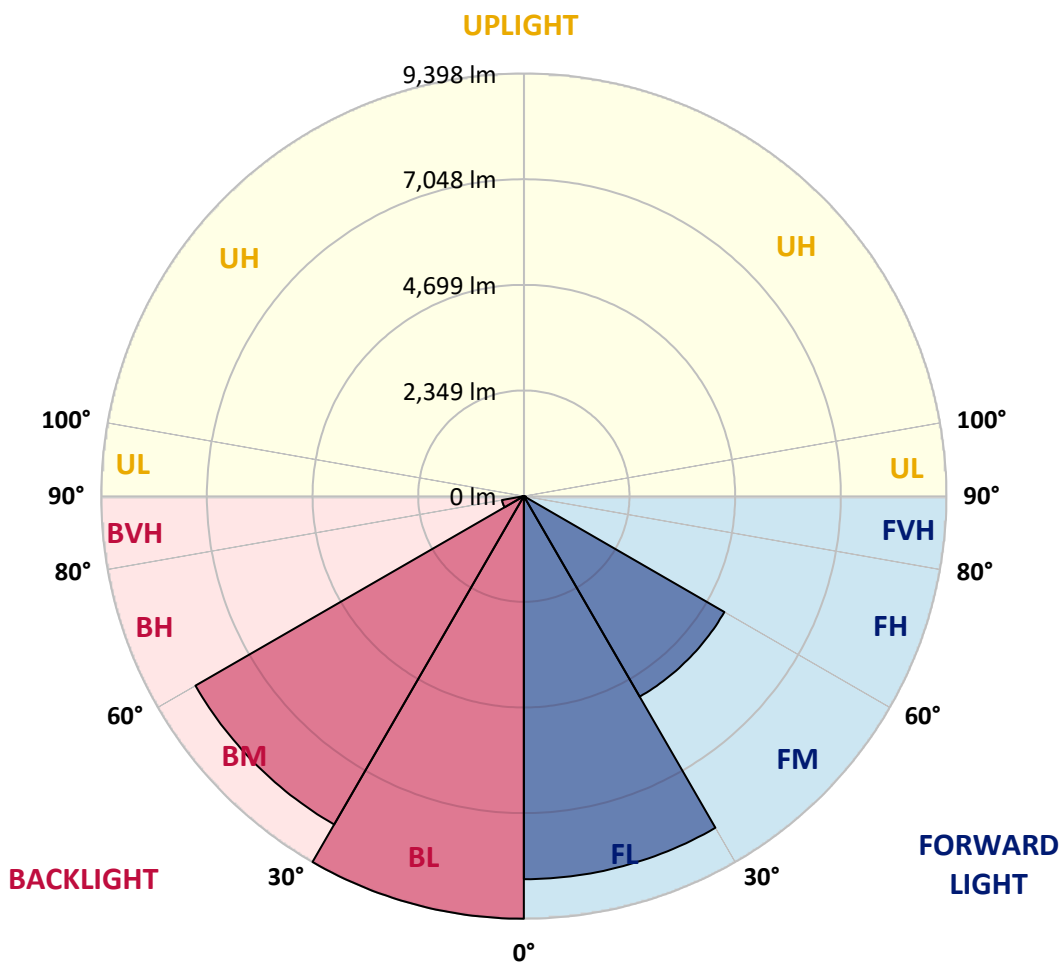
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8518.2	26.6			
FM (30°-60°)	5150.4	16.1			
FH (60°-80°)	43.6	0.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	9398.0	29.3	B5		
BM (30°-60°)	8432.1	26.3	B4/8500		
BH (60°-80°)	493.8	1.5	B1/500		G1/500
BVH (80°-90°)	31.6	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7
2.5°	28416.8	28484.9	28225.9	28341.8	28389.5	28328.1	28553.1	28484.9	28539.5	28369.0
5°	28416.8	28484.9	28184.9	28239.5	28253.1	28137.2	28382.7	28300.9	28307.7	28130.4
7.5°	28239.5	28321.3	28048.6	28089.5	28096.3	28000.9	28212.2	28096.3	28055.4	27871.3
10°	27762.2	27810.0	27564.5	27666.8	27762.2	27673.6	27857.7	27728.2	27728.2	27564.5
12.5°	27005.5	27094.1	26821.4	26944.1	27025.9	26923.6	27135.0	27087.3	27094.1	26930.5
15°	25628.3	25321.5	25648.7	25894.2	25901.0	25880.5	26078.2	26030.5	26064.6	25819.2
17.5°	18933.1	18858.1	19239.9	22137.5	24292.0	24585.1	24619.2	24360.1	24244.2	24005.6
20°	17542.3	17596.8	17515.0	17528.7	19226.3	22751.1	22539.8	21898.9	21605.7	21367.1
22.5°	16526.4	16437.8	16383.3	16349.2	16396.9	18694.5	20214.9	19246.8	19090.0	18974.0
25°	15422.0	15381.0	15312.9	15299.2	15272.0	14883.3	17071.9	17160.5	16908.2	16765.1
27.5°	14392.5	14365.2	14290.2	14283.4	13969.8	13028.9	13267.5	15374.2	15306.0	15251.5
30°	13294.8	13240.2	13199.3	13199.3	12251.7	11283.5	10894.9	13403.9	13403.9	13356.1
32.5°	12101.7	12053.9	12067.6	11903.9	10772.2	9885.9	9272.3	11569.9	12285.7	12244.8
35°	7397.4	7383.7	8767.7	10588.1	9258.6	8454.1	8413.2	9899.5	10942.6	11051.7
37.5°	6586.0	6545.1	6565.6	6681.5	7929.1	7608.7	7595.1	7847.3	9313.2	9367.7
40°	5911.1	5883.8	5863.3	5447.5	5052.0	6790.6	6742.8	6579.2	7956.4	8051.9
42.5°	5270.2	5242.9	5242.9	4656.6	4015.7	5583.8	5604.3	5413.4	6708.8	6742.8
45°	4608.9	4588.4	4472.5	3715.7	3531.6	3708.9	4642.9	4424.8	5324.7	5679.3
47.5°	2174.9	2161.3	3129.4	3088.5	3074.8	2965.8	3545.3	3668.0	4227.1	4581.6
50°	1745.4	1731.7	1649.9	1452.2	2529.4	2249.9	2556.7	2822.6	2999.8	3327.1
52.5°	1445.4	1431.7	1261.3	1118.1	1404.5	1643.1	1527.2	1888.5	1881.7	2236.3
55°	947.7	879.5	968.1	913.6	736.3	1193.1	1165.9	1431.7	1397.7	1704.5
57.5°	20.5	20.5	47.7	518.2	463.6	504.5	668.1	818.1	920.4	1009.0
60°	6.8	6.8	13.6	27.3	190.9	211.4	259.1	300.0	422.7	525.0
62.5°	0.0	0.0	6.8	13.6	27.3	109.1	122.7	143.2	197.7	272.7
65°	0.0	0.0	0.0	6.8	13.6	27.3	40.9	88.6	122.7	156.8
67.5°	0.0	0.0	0.0	6.8	6.8	13.6	27.3	40.9	54.5	109.1
70°	0.0	0.0	0.0	6.8	6.8	13.6	20.5	27.3	40.9	54.5
72.5°	0.0	0.0	0.0	6.8	6.8	20.5	13.6	20.5	27.3	34.1
75°	0.0	0.0	0.0	6.8	6.8	6.8	13.6	20.5	20.5	27.3
77.5°	0.0	0.0	0.0	6.8	13.6	13.6	13.6	13.6	13.6	20.5
80°	0.0	0.0	0.0	6.8	6.8	13.6	20.5	27.3	13.6	13.6
82.5°	0.0	0.0	0.0	13.6	6.8	27.3	40.9	34.1	13.6	6.8
85°	0.0	0.0	0.0	6.8	27.3	34.1	34.1	20.5	6.8	6.8
87.5°	0.0	0.0	0.0	6.8	6.8	13.6	20.5	20.5	6.8	6.8
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°
28457.7	0°	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7	28457.7
28355.4	2.5°	28198.6	28464.5	28703.1	28553.1	28498.6	28389.5	28307.7	28219.0	28212.2
28110.0	5°	27953.1	28205.4	28437.2	28259.9	28273.6	28219.0	28164.5	28144.0	28157.7
27857.7	7.5°	27741.8	27953.1	28205.4	28055.4	28096.3	28062.2	28035.0	27994.0	28055.4
27530.4	10°	27421.3	27612.2	27905.4	27762.2	27741.8	27707.7	27680.4	27605.4	27639.5
26937.3	12.5°	26719.1	26957.7	27291.8	27128.2	27182.7	27087.3	27046.4	26998.6	27005.5
25907.8	15°	25764.6	25948.7	26289.6	26160.0	26201.0	26139.6	26139.6	26139.6	26187.3
24039.7	17.5°	24101.1	24476.0	25014.7	24851.0	24912.4	24926.0	24912.4	24960.1	25021.5
21380.7	20°	21394.4	22035.3	23017.0	23337.5	23467.0	23473.8	23378.4	23494.3	23617.0
18892.2	22.5°	18905.9	19580.8	20446.7	21326.2	21871.6	21844.4	21858.0	21933.0	22062.5
16676.4	25°	16751.4	17399.1	18183.2	18967.2	20160.4	20405.8	20412.6	20480.8	20583.1
15162.9	27.5°	15197.0	15449.2	16165.1	16956.0	18237.7	19021.8	18980.9	19042.2	19151.3
13267.5	30°	13322.1	14290.2	14453.8	14937.9	16042.4	17480.9	17487.8	17555.9	17665.0
12149.4	32.5°	12115.3	12756.2	13260.7	13274.3	14215.2	15694.7	15987.8	16056.0	16131.0
10990.4	35°	10983.5	11058.5	11740.3	11931.2	12476.6	13942.5	14460.6	14501.5	14624.3
9347.3	37.5°	9504.1	9947.2	10138.1	10819.9	10847.2	12033.5	13063.0	13022.1	13117.5
8045.1	40°	8147.3	8570.0	9054.1	9551.8	9620.0	10506.3	11644.9	11685.8	11726.7
6674.7	42.5°	6729.2	7267.8	7765.5	8099.6	8563.2	9074.5	10158.6	10349.5	10444.9
5720.2	45°	5822.4	5972.4	6565.6	7056.5	7526.9	7765.5	8781.4	9129.1	9190.4
4527.0	47.5°	4588.4	5092.9	5495.2	5911.1	6497.4	6708.8	7445.1	7929.1	7976.9
3361.2	50°	3545.3	3906.6	4458.9	4833.8	5515.6	5631.5	6136.1	6763.3	6824.7
2249.9	52.5°	2536.2	3027.1	3565.7	3927.1	4581.6	4731.6	5106.6	5706.5	5747.4
1724.9	55°	1820.4	2140.8	2584.0	3102.1	3579.4	3913.4	4172.5	4745.2	4799.8
1131.8	57.5°	1240.8	1540.8	1724.9	2243.1	2529.4	2890.8	3102.1	3538.5	3579.4
538.6	60°	593.2	736.3	879.5	1138.6	1322.7	1629.5	1765.8	1943.1	1990.8
327.3	62.5°	381.8	450.0	572.7	681.8	859.0	1049.9	1104.5	1254.5	1309.0
204.5	65°	252.3	320.4	450.0	477.2	654.5	804.5	872.7	981.8	1043.1
122.7	67.5°	143.2	225.0	334.1	395.4	518.2	661.3	736.3	831.8	886.3
81.8	70°	95.4	184.1	265.9	327.3	409.1	531.8	627.2	709.1	743.1
40.9	72.5°	54.5	115.9	184.1	259.1	327.3	443.2	531.8	600.0	395.4
27.3	75°	34.1	88.6	156.8	218.2	272.7	354.5	429.5	422.7	177.3
20.5	77.5°	27.3	68.2	136.4	184.1	225.0	245.4	306.8	347.7	136.4
13.6	80°	20.5	54.5	122.7	156.8	88.6	177.3	238.6	259.1	95.4
13.6	82.5°	13.6	34.1	102.3	109.1	61.4	129.5	190.9	170.4	68.2
6.8	85°	6.8	20.5	34.1	61.4	54.5	61.4	47.7	68.2	47.7
6.8	87.5°	6.8	13.6	27.3	27.3	27.3	20.5	27.3	27.3	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28457.7
28375.8
28328.1
28225.9
27803.1
27203.2
26207.8
25226.0
23698.8
22083.0
20760.3
19253.6
17855.9
16301.5
14753.8
13233.4
11856.2
10581.3
9340.4
8092.8
6913.3
5822.4
4847.5
3661.2
2045.4
1322.7
1043.1
879.5
736.3
320.4
177.3
136.4
102.3
68.2
47.7
27.3
0.0

(END OF REPORT)