

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: P636586

Luminaire Tested: **IFLD-L-SA7D-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636586
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24588.6 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

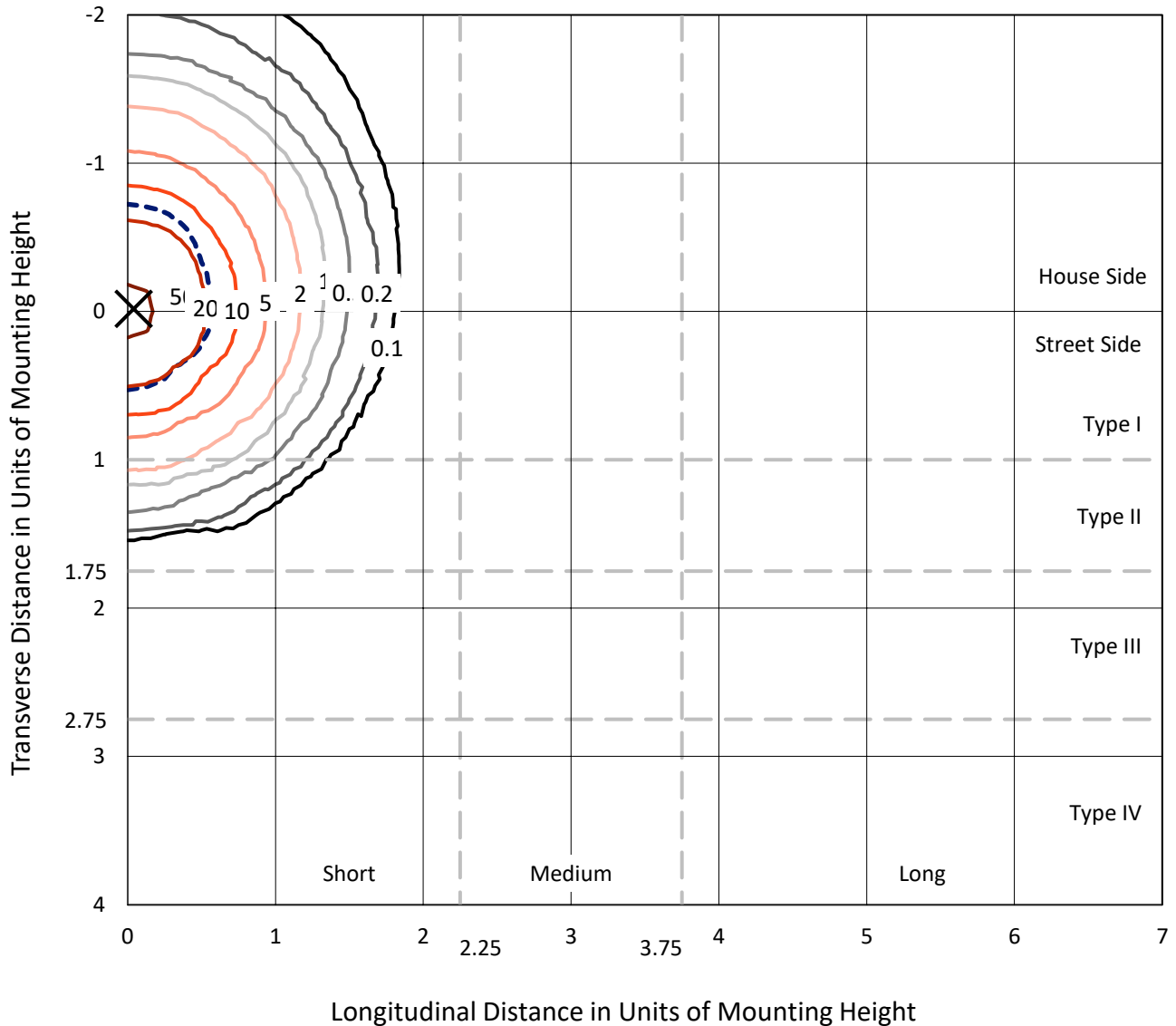
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

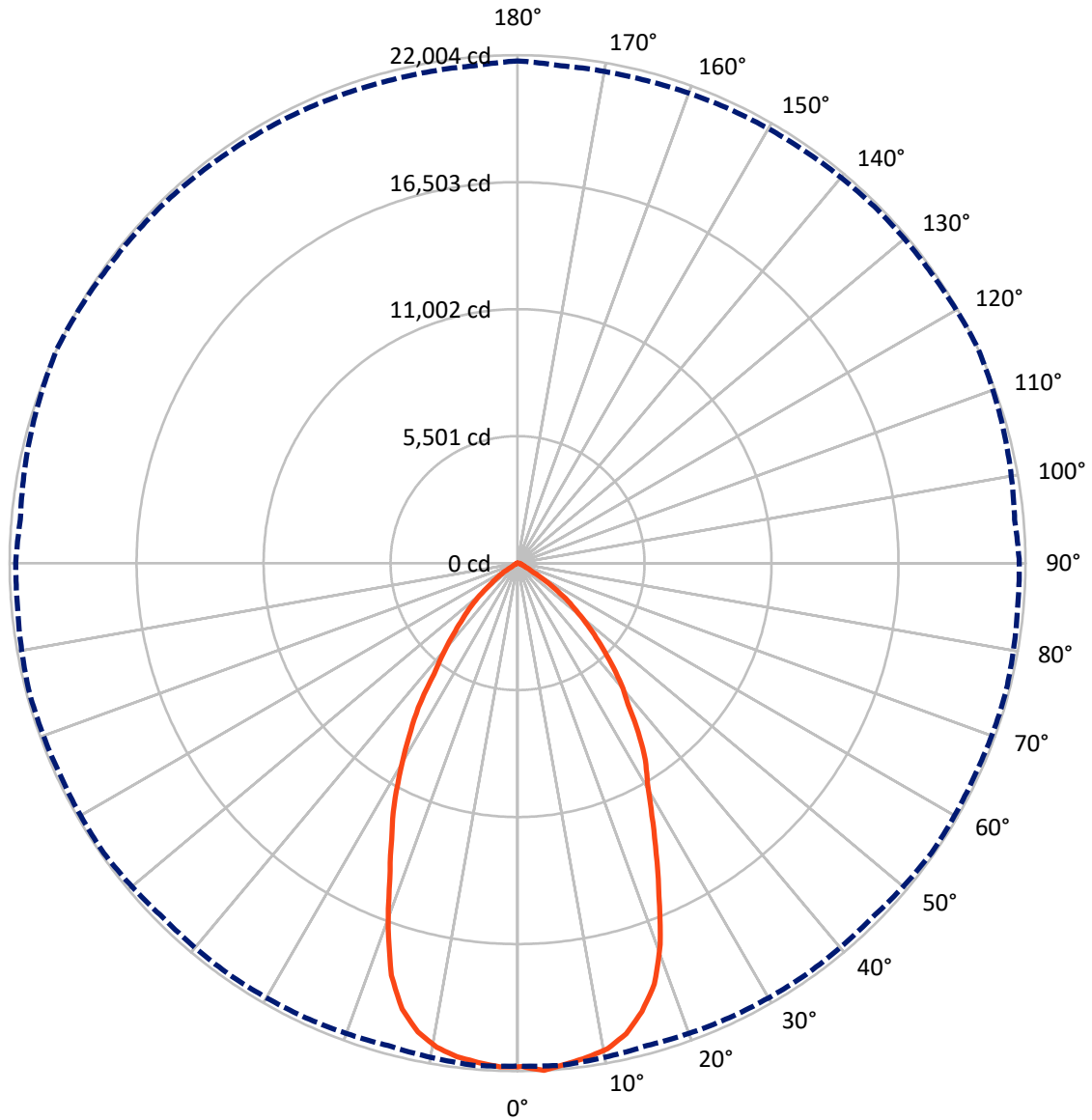
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.5 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	14071.7	0.0	14071.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	10516.9	0.0	10516.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	24588.6	0.0	24588.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2054.8	8.4
10°-20°	5448.3	22.2
20°-30°	6231.8	25.3
30°-40°	5340.4	21.7
40°-50°	3531.3	14.4
50°-60°	1540.9	6.3
60°-70°	302.8	1.2
70°-80°	109.2	0.4
80°-90°	29.0	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°	24588.6	100.0
0°-180°	24588.6	100.0



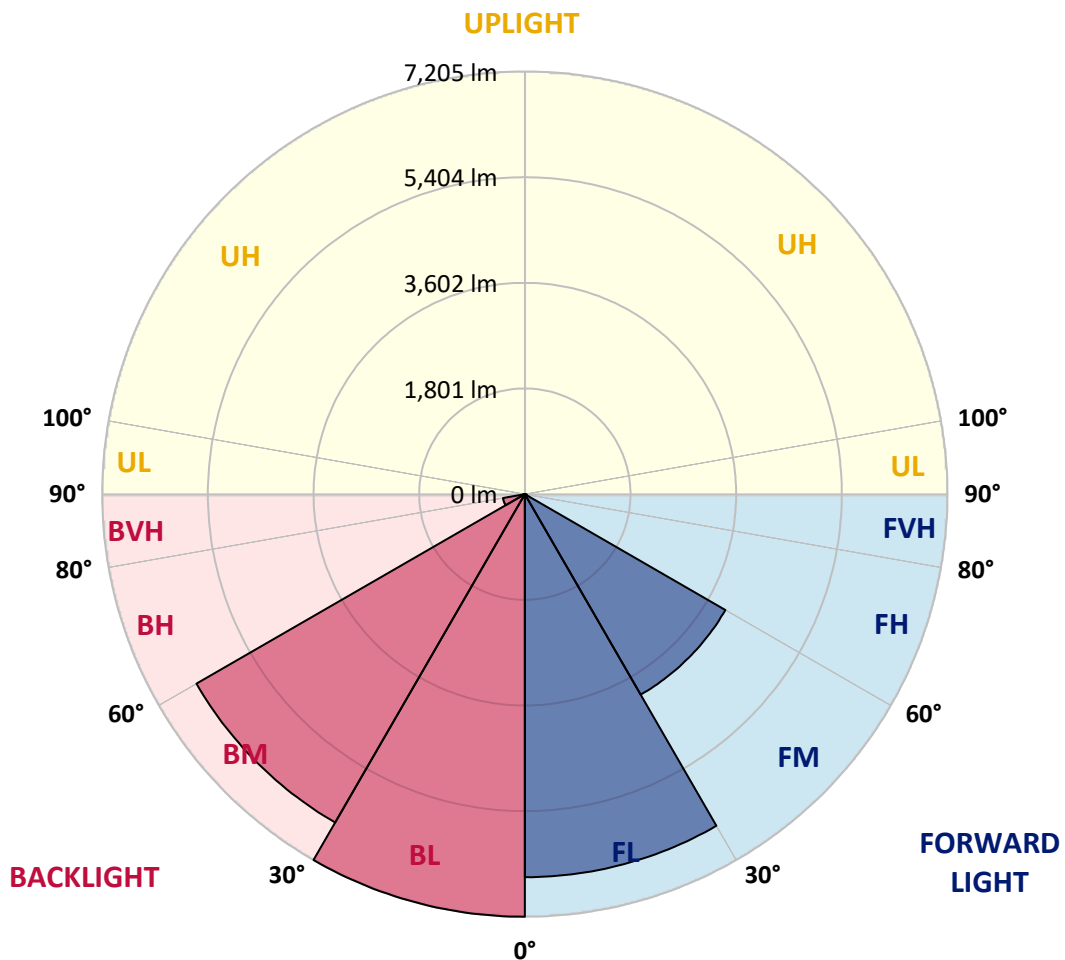
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6530.2	26.6			
FM (30°-60°)	3948.4	16.1			
FH (60°-80°)	33.4	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	7204.7	29.3	B5		
BM (30°-60°)	6464.2	26.3	B4/8500		
BH (60°-80°)	378.6	1.5	B1/500		G1/500
BVH (80°-90°)	24.2	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°	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3
2.5°	21784.9	21837.2	21638.6	21727.4	21764.0	21717.0	21889.4	21837.2	21879.0	21748.3
5°	21784.9	21837.2	21607.2	21649.0	21659.5	21570.6	21758.8	21696.1	21701.3	21565.4
7.5°	21649.0	21711.7	21502.7	21534.0	21539.3	21466.1	21628.1	21539.3	21507.9	21366.8
10°	21283.1	21319.7	21131.6	21210.0	21283.1	21215.2	21356.3	21257.0	21257.0	21131.6
12.5°	20703.0	20770.9	20561.9	20655.9	20718.7	20640.3	20802.3	20765.7	20770.9	20645.5
15°	19647.2	19412.0	19662.9	19851.0	19856.3	19840.6	19992.2	19955.6	19981.7	19793.5
17.5°	14514.6	14457.1	14749.8	16971.1	18622.8	18847.5	18873.6	18675.0	18586.2	18403.2
20°	13448.3	13490.1	13427.4	13437.9	14739.3	17441.5	17279.5	16788.2	16563.4	16380.5
22.5°	12669.5	12601.6	12559.8	12533.6	12570.2	14331.6	15497.2	14755.0	14634.8	14545.9
25°	11822.8	11791.4	11739.2	11728.7	11707.8	11409.9	13087.7	13155.6	12962.2	12852.5
27.5°	11033.6	11012.7	10955.2	10949.9	10709.5	9988.2	10171.2	11786.2	11734.0	11692.1
30°	10192.1	10150.3	10118.9	10118.9	9392.4	8650.2	8352.3	10275.7	10275.7	10239.1
32.5°	9277.4	9240.8	9251.3	9125.8	8258.2	7578.7	7108.3	8869.7	9418.5	9387.2
35°	5671.0	5660.5	6721.5	8117.1	7097.9	6481.1	6449.8	7589.2	8388.9	8472.5
37.5°	5049.0	5017.6	5033.3	5122.2	6078.7	5833.0	5822.6	6015.9	7139.7	7181.5
40°	4531.6	4510.6	4495.0	4176.1	3873.0	5205.8	5169.2	5043.8	6099.6	6172.7
42.5°	4040.2	4019.3	4019.3	3569.8	3078.5	4280.7	4296.4	4150.0	5143.1	5169.2
45°	3533.3	3517.6	3428.7	2848.6	2707.4	2843.3	3559.4	3392.1	4082.1	4353.8
47.5°	1667.3	1656.9	2399.1	2367.7	2357.2	2273.6	2717.9	2812.0	3240.6	3512.3
50°	1338.0	1327.6	1264.9	1113.3	1939.1	1724.8	1960.0	2163.9	2299.8	2550.6
52.5°	1108.1	1097.6	966.9	857.2	1076.7	1259.6	1170.8	1447.8	1442.6	1714.4
55°	726.5	674.2	742.2	700.4	564.5	914.7	893.8	1097.6	1071.5	1306.7
57.5°	15.7	15.7	36.6	397.2	355.4	386.8	512.2	627.2	705.6	773.6
60°	5.2	5.2	10.5	20.9	146.3	162.0	198.6	230.0	324.1	402.5
62.5°	0.0	0.0	5.2	10.5	20.9	83.6	94.1	109.8	151.6	209.1
65°	0.0	0.0	0.0	5.2	10.5	20.9	31.4	67.9	94.1	120.2
67.5°	0.0	0.0	0.0	5.2	5.2	10.5	20.9	31.4	41.8	83.6
70°	0.0	0.0	0.0	5.2	5.2	10.5	15.7	20.9	31.4	41.8
72.5°	0.0	0.0	0.0	5.2	5.2	15.7	10.5	15.7	20.9	26.1
75°	0.0	0.0	0.0	5.2	5.2	5.2	10.5	15.7	15.7	20.9
77.5°	0.0	0.0	0.0	5.2	10.5	10.5	10.5	10.5	10.5	15.7
80°	0.0	0.0	0.0	5.2	5.2	10.5	15.7	20.9	10.5	10.5
82.5°	0.0	0.0	0.0	10.5	5.2	20.9	31.4	26.1	10.5	5.2
85°	0.0	0.0	0.0	5.2	20.9	26.1	26.1	15.7	5.2	5.2
87.5°	0.0	0.0	0.0	5.2	5.2	10.5	15.7	15.7	5.2	5.2
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°
21816.3	0°	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3	21816.3
21737.9	2.5°	21617.7	21821.5	22004.4	21889.4	21847.6	21764.0	21701.3	21633.3	21628.1
21549.7	5°	21429.5	21622.9	21800.6	21664.7	21675.2	21633.3	21591.5	21575.8	21586.3
21356.3	7.5°	21267.5	21429.5	21622.9	21507.9	21539.3	21513.1	21492.2	21460.9	21507.9
21105.4	10°	21021.8	21168.2	21392.9	21283.1	21267.5	21241.3	21220.4	21162.9	21189.1
20650.7	12.5°	20483.5	20666.4	20922.5	20797.1	20838.9	20765.7	20734.3	20697.8	20703.0
19861.5	15°	19751.7	19892.8	20154.2	20054.9	20086.2	20039.2	20039.2	20039.2	20075.8
18429.4	17.5°	18476.4	18763.9	19176.8	19051.3	19098.4	19108.8	19098.4	19135.0	19182.0
16391.0	20°	16401.4	16892.7	17645.4	17891.0	17990.3	17995.5	17922.4	18011.2	18105.3
14483.2	22.5°	14493.7	15011.1	15674.9	16349.1	16767.3	16746.4	16756.8	16814.3	16913.6
12784.5	25°	12842.0	13338.6	13939.6	14540.7	15455.4	15643.5	15648.8	15701.0	15779.4
11624.2	27.5°	11650.3	11843.7	12392.5	12998.8	13981.4	14582.5	14551.1	14598.2	14681.8
10171.2	30°	10213.0	10955.2	11080.6	11451.7	12298.4	13401.3	13406.5	13458.8	13542.4
9314.0	32.5°	9287.9	9779.2	10165.9	10176.4	10897.7	12031.9	12256.6	12308.9	12366.4
8425.5	35°	8420.2	8477.7	9000.4	9146.7	9564.9	10688.6	11085.8	11117.2	11211.3
7165.8	37.5°	7286.0	7625.8	7772.1	8294.8	8315.7	9225.1	10014.4	9983.0	10056.2
6167.5	40°	6245.9	6570.0	6941.1	7322.6	7374.9	8054.4	8927.2	8958.6	8989.9
5116.9	42.5°	5158.8	5571.7	5953.2	6209.3	6564.7	6956.7	7787.8	7934.1	8007.3
4385.2	45°	4463.6	4578.6	5033.3	5409.6	5770.3	5953.2	6732.0	6998.6	7045.6
3470.5	47.5°	3517.6	3904.3	4212.7	4531.6	4981.1	5143.1	5707.6	6078.7	6115.2
2576.8	50°	2717.9	2994.9	3418.3	3705.7	4228.4	4317.3	4704.0	5184.9	5231.9
1724.8	52.5°	1944.3	2320.7	2733.6	3010.6	3512.3	3627.3	3914.8	4374.8	4406.1
1322.4	55°	1395.5	1641.2	1980.9	2378.2	2744.0	3000.1	3198.7	3637.8	3679.6
867.6	57.5°	951.3	1181.2	1322.4	1719.6	1939.1	2216.1	2378.2	2712.7	2744.0
412.9	60°	454.7	564.5	674.2	872.9	1014.0	1249.2	1353.7	1489.6	1526.2
250.9	62.5°	292.7	345.0	439.0	522.7	658.6	804.9	846.7	961.7	1003.5
156.8	65°	193.4	245.7	345.0	365.9	501.8	616.8	669.0	752.6	799.7
94.1	67.5°	109.8	172.5	256.1	303.1	397.2	507.0	564.5	637.7	679.5
62.7	70°	73.2	141.1	203.8	250.9	313.6	407.7	480.9	543.6	569.7
31.4	72.5°	41.8	88.9	141.1	198.6	250.9	339.7	407.7	460.0	303.1
20.9	75°	26.1	67.9	120.2	167.3	209.1	271.8	329.3	324.1	135.9
15.7	77.5°	20.9	52.3	104.5	141.1	172.5	188.2	235.2	266.6	104.5
10.5	80°	15.7	41.8	94.1	120.2	67.9	135.9	182.9	198.6	73.2
10.5	82.5°	10.5	26.1	78.4	83.6	47.0	99.3	146.3	130.7	52.3
5.2	85°	5.2	15.7	26.1	47.0	41.8	47.0	36.6	52.3	36.6
5.2	87.5°	5.2	10.5	20.9	20.9	20.9	15.7	20.9	20.9	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21816.3
21753.6
21717.0
21638.6
21314.5
20854.6
20091.5
19338.8
18168.0
16929.3
15915.3
14760.2
13688.7
12497.1
11310.6
10145.0
9089.2
8111.8
7160.6
6204.1
5299.9
4463.6
3716.2
2806.7
1568.0
1014.0
799.7
674.2
564.5
245.7
135.9
104.5
78.4
52.3
36.6
20.9
0.0

(END OF REPORT)