

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: P638025

Luminaire Tested: **IFLD-S-SA6C-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27840.4 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

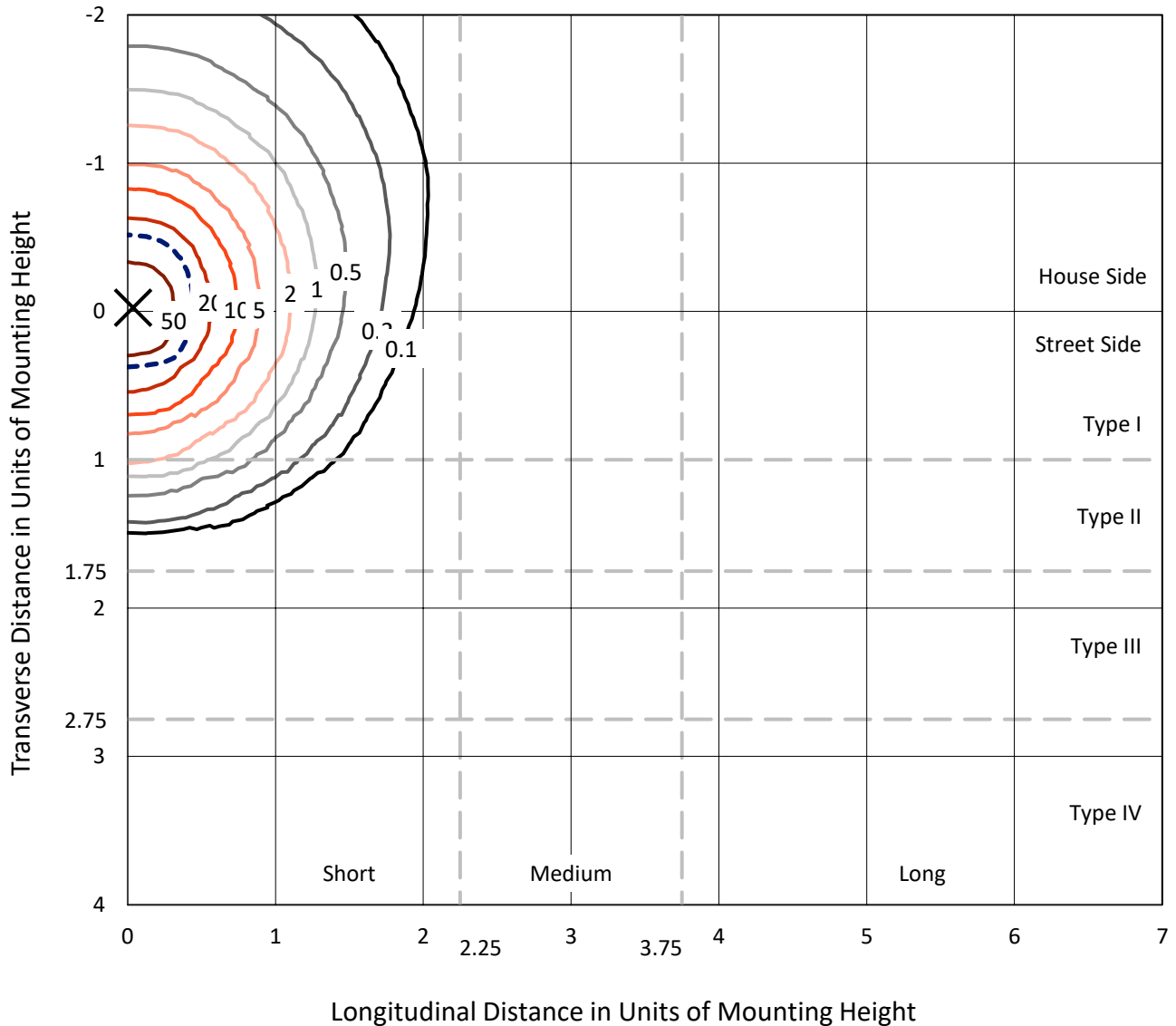
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

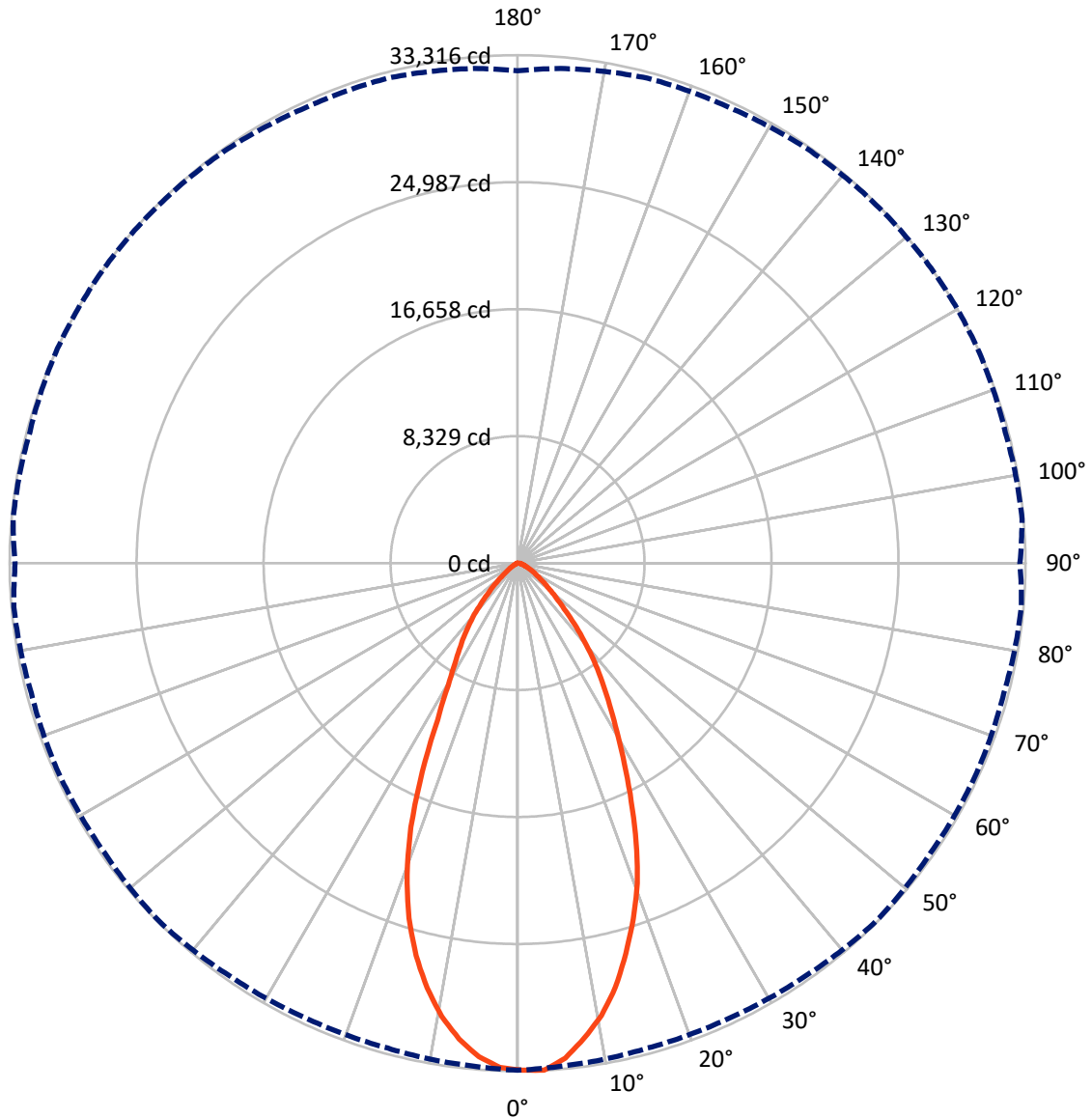
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 83.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15797.8	0.0	15797.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12042.7	0.0	12042.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	27840.4	0.0	27840.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3020.4	10.8
10°-20°	7199.9	25.9
20°-30°	7332.9	26.3
30°-40°	5468.1	19.6
40°-50°	2856.7	10.3
50°-60°	1201.5	4.3
60°-70°	490.7	1.8
70°-80°	206.5	0.7
80°-90°	63.6	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°	27840.4	100.0
0°-180°	27840.4	100.0



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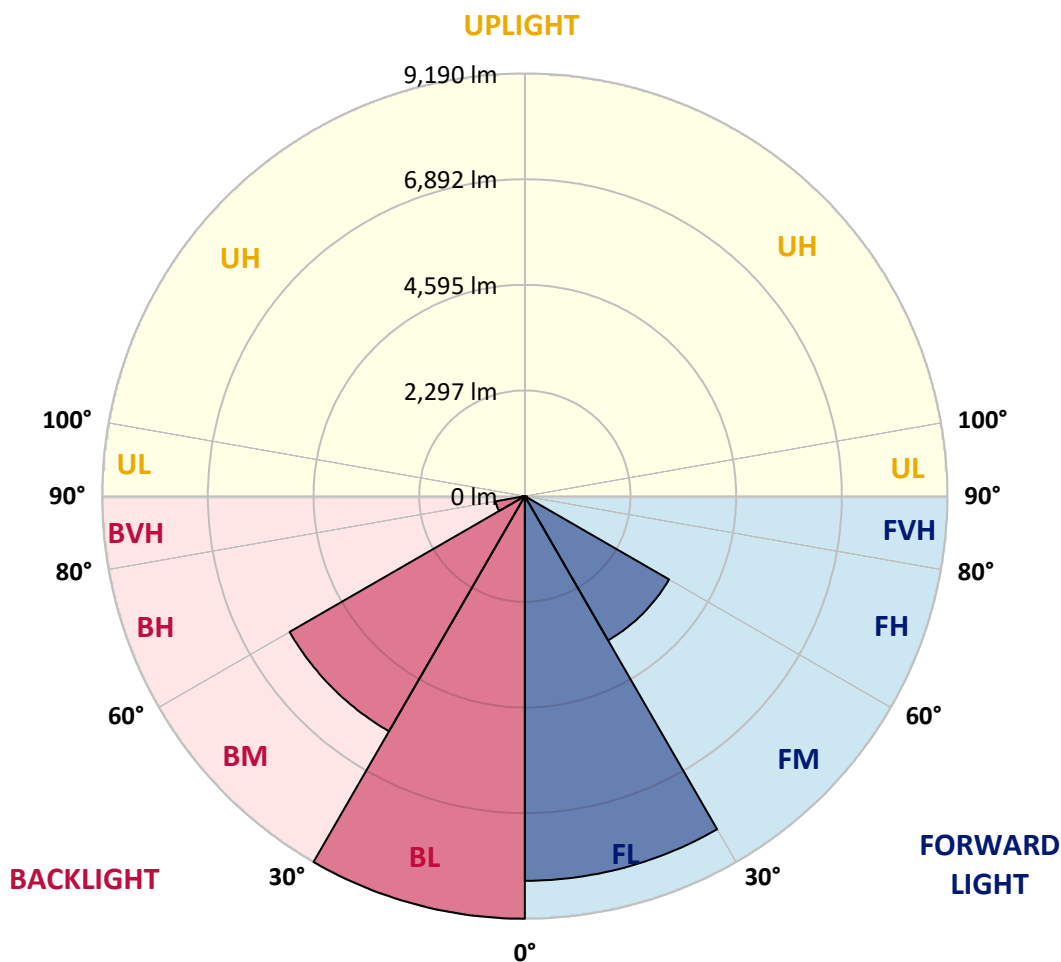
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8363.6	30.0			
FM (30°-60°)	3620.8	13.0			
FH (60°-80°)	52.4	0.2			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	9189.6	33.0	B5		
BM (30°-60°)	5905.6	21.2	B4/8500		
BH (60°-80°)	644.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	57.7	0.2			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°	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5
2.5°	33266.1	33130.2	32937.1	32919.2	33019.4	33237.5	33098.0	33105.2	33019.4	33166.0
5°	32744.0	32615.2	32482.9	32307.7	32454.3	32547.3	32475.8	32397.1	32286.2	32429.3
7.5°	31756.9	31685.4	31488.7	31410.1	31499.5	31603.2	31449.4	31427.9	31274.2	31460.1
10°	30247.8	30219.2	30026.1	29979.6	30058.2	30215.6	30147.6	30133.3	30036.8	30018.9
12.5°	28681.4	28570.5	28330.9	28316.6	28434.6	28670.7	28488.3	28313.0	28366.7	28413.2
15°	24647.4	24529.4	25123.0	26056.4	26546.4	26528.5	26582.1	26371.1	26306.8	26328.2
17.5°	19594.2	19393.9	19608.5	21053.3	23381.4	24733.2	24361.3	23907.1	23663.9	23503.0
20°	16912.0	16922.7	16883.4	17255.3	18707.3	21790.0	21700.6	20824.4	20506.1	20373.8
22.5°	15281.2	15220.4	15134.6	15252.6	15642.4	17452.0	18664.4	17859.7	17748.8	17602.2
25°	13682.7	13682.7	13579.0	13697.0	13807.8	13832.9	15048.8	15377.8	15163.2	15163.2
27.5°	12298.7	12227.1	12180.6	12234.3	12087.7	11383.1	11536.9	13221.3	13074.7	12985.3
30°	10925.4	10903.9	10825.3	10896.8	10353.2	9559.3	9237.4	11157.8	11311.6	11279.4
32.5°	9019.3	9105.1	9455.6	9566.4	8636.6	7996.5	7688.9	9262.4	9877.6	9852.5
35°	6129.7	6201.2	6601.7	7924.9	7159.6	6701.9	6612.5	7367.0	8379.1	8475.7
37.5°	4881.6	4870.8	4985.3	5221.3	5754.2	5643.3	5618.3	5815.0	6834.2	6877.1
40°	4023.3	4009.0	4005.4	3812.3	3679.9	4692.0	4624.1	4506.1	5389.4	5475.2
42.5°	3243.6	3257.9	3268.7	2846.7	2653.6	3619.1	3579.8	3458.2	4227.1	4327.2
45°	2546.3	2542.7	2564.2	2120.7	2067.1	2313.8	2675.0	2578.5	3190.0	3297.3
47.5°	1319.6	1366.1	1655.8	1641.5	1666.5	1641.5	2024.1	1999.1	2399.7	2571.3
50°	886.9	901.2	926.2	929.8	1312.5	1208.8	1373.3	1555.7	1680.8	1945.5
52.5°	686.6	697.4	633.0	593.7	804.7	894.1	901.2	1076.4	1173.0	1441.2
55°	382.7	429.1	461.3	464.9	443.5	661.6	658.0	797.5	872.6	1051.4
57.5°	50.1	60.8	93.0	300.4	296.8	368.4	461.3	579.3	622.3	768.9
60°	3.6	7.2	10.7	46.5	196.7	214.6	314.7	361.2	432.7	540.0
62.5°	0.0	0.0	3.6	10.7	39.3	125.2	164.5	189.5	253.9	354.0
65°	0.0	0.0	3.6	7.2	14.3	46.5	64.4	103.7	150.2	218.2
67.5°	0.0	0.0	3.6	7.2	10.7	17.9	28.6	46.5	78.7	132.3
70°	0.0	0.0	3.6	7.2	10.7	14.3	21.5	28.6	42.9	71.5
72.5°	0.0	0.0	3.6	3.6	7.2	17.9	17.9	21.5	28.6	39.3
75°	0.0	0.0	3.6	7.2	10.7	17.9	17.9	17.9	21.5	25.0
77.5°	0.0	0.0	3.6	7.2	10.7	17.9	14.3	17.9	17.9	17.9
80°	0.0	0.0	3.6	7.2	10.7	17.9	21.5	17.9	14.3	14.3
82.5°	0.0	0.0	3.6	10.7	10.7	25.0	25.0	25.0	10.7	10.7
85°	0.0	0.0	7.2	10.7	17.9	28.6	28.6	21.5	10.7	7.2
87.5°	0.0	0.0	3.6	7.2	7.2	14.3	21.5	17.9	7.2	3.6
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°
33262.5	0°	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5	33262.5
32951.4	2.5°	33216.1	33126.6	33294.7	33316.2	33244.7	33155.3	32947.8	32930.0	32568.8
32221.9	5°	32586.6	32440.0	32547.3	32618.8	32593.8	32497.2	32411.4	32332.7	32007.3
31038.1	7.5°	31413.6	31360.0	31410.1	31463.7	31567.4	31463.7	31427.9	31345.7	31023.8
29872.3	10°	30111.9	30011.7	30201.3	30176.3	30147.6	30119.0	29968.8	29983.1	29604.1
28284.4	12.5°	28513.3	28345.2	28527.6	28549.1	28527.6	28427.5	28259.4	28330.9	27984.0
26138.7	15°	26364.0	26346.1	26478.4	26564.3	26625.1	26517.8	26460.5	26496.3	26288.9
23377.8	17.5°	23724.7	23957.2	24389.9	24536.5	24540.1	24651.0	24618.8	24575.9	24422.1
20320.2	20°	20620.6	21067.6	21732.8	22415.8	22612.5	22519.5	22476.6	22555.3	22326.4
17448.4	22.5°	17756.0	18138.7	18911.1	19908.9	20484.7	20541.9	20531.2	20463.2	20373.8
15148.9	25°	15324.2	15663.9	16404.2	17316.1	18421.2	18585.7	18592.8	18571.4	18492.7
13064.0	27.5°	13271.4	13682.7	14090.4	14905.7	16082.3	16761.8	16676.0	16650.9	16622.3
11304.5	30°	11411.8	11930.3	12313.0	12820.8	13875.8	14794.9	14884.3	14841.4	14773.4
9848.9	32.5°	9938.4	10245.9	10732.3	11075.6	11833.8	12874.4	13217.8	13185.6	13124.8
8536.5	35°	8658.1	8779.7	9162.3	9545.0	10049.2	11057.7	11565.5	11494.0	11483.3
6955.8	37.5°	7131.0	7538.7	7749.7	8135.9	8490.0	9273.2	9974.1	9941.9	9945.5
5593.2	40°	5757.7	5993.8	6412.2	6737.6	7063.1	7635.3	8414.9	8436.3	8429.2
4330.8	42.5°	4420.2	4649.1	5089.0	5443.0	5732.7	6086.7	6830.6	6855.6	6887.8
3372.4	45°	3451.1	3597.7	3919.6	4287.9	4595.5	4810.0	5375.1	5536.0	5539.6
2614.2	47.5°	2678.6	2846.7	3075.6	3429.6	3730.0	3883.8	4295.1	4513.2	4502.5
2006.3	50°	2102.8	2256.6	2442.6	2721.5	3047.0	3168.5	3472.5	3687.1	3676.4
1512.7	52.5°	1609.3	1806.0	1970.5	2185.1	2503.4	2607.1	2825.2	3072.0	3036.2
1108.6	55°	1219.5	1419.8	1573.5	1752.4	2042.0	2174.3	2324.6	2521.2	2528.4
858.3	57.5°	919.1	1126.5	1266.0	1448.4	1666.5	1813.2	1927.6	2138.6	2135.0
586.5	60°	658.0	836.8	1004.9	1194.5	1362.5	1530.6	1609.3	1809.6	1816.7
414.8	62.5°	475.6	643.7	804.7	969.2	1119.4	1283.9	1355.4	1512.7	1534.2
271.8	65°	332.6	450.6	636.6	761.7	929.8	1051.4	1144.4	1280.3	1305.3
160.9	67.5°	214.6	325.4	504.2	615.1	768.9	872.6	969.2	1076.4	1108.6
103.7	70°	128.7	246.8	375.5	493.5	633.0	726.0	819.0	911.9	929.8
50.1	72.5°	82.3	171.7	271.8	400.5	507.8	608.0	690.2	758.2	704.5
32.2	75°	46.5	118.0	214.6	314.7	411.3	507.8	575.8	611.5	489.9
21.5	77.5°	28.6	85.8	175.2	253.9	318.3	407.7	450.6	472.1	350.5
14.3	80°	17.9	64.4	146.6	207.4	207.4	300.4	350.5	368.4	253.9
10.7	82.5°	14.3	46.5	114.4	157.4	139.5	225.3	275.4	278.9	178.8
7.2	85°	10.7	35.8	71.5	103.7	96.6	157.4	160.9	178.8	118.0
7.2	87.5°	7.2	21.5	42.9	60.8	53.6	75.1	85.8	96.6	64.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33262.5
32286.2
31746.2
30955.9
29475.3
27883.9
26038.6
24193.2
22161.9
20202.1
18228.1
16454.2
14687.6
12963.8
11365.3
9831.1
8304.0
6780.5
5446.6
4463.1
3676.4
3039.8
2528.4
2127.9
1798.8
1527.1
1298.2
1105.1
915.5
654.5
464.9
329.0
236.0
164.5
107.3
57.2
0.0

(END OF REPORT)