

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: P637821

Luminaire Tested: **IFLD-S-SA6B-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637821
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23538.6 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

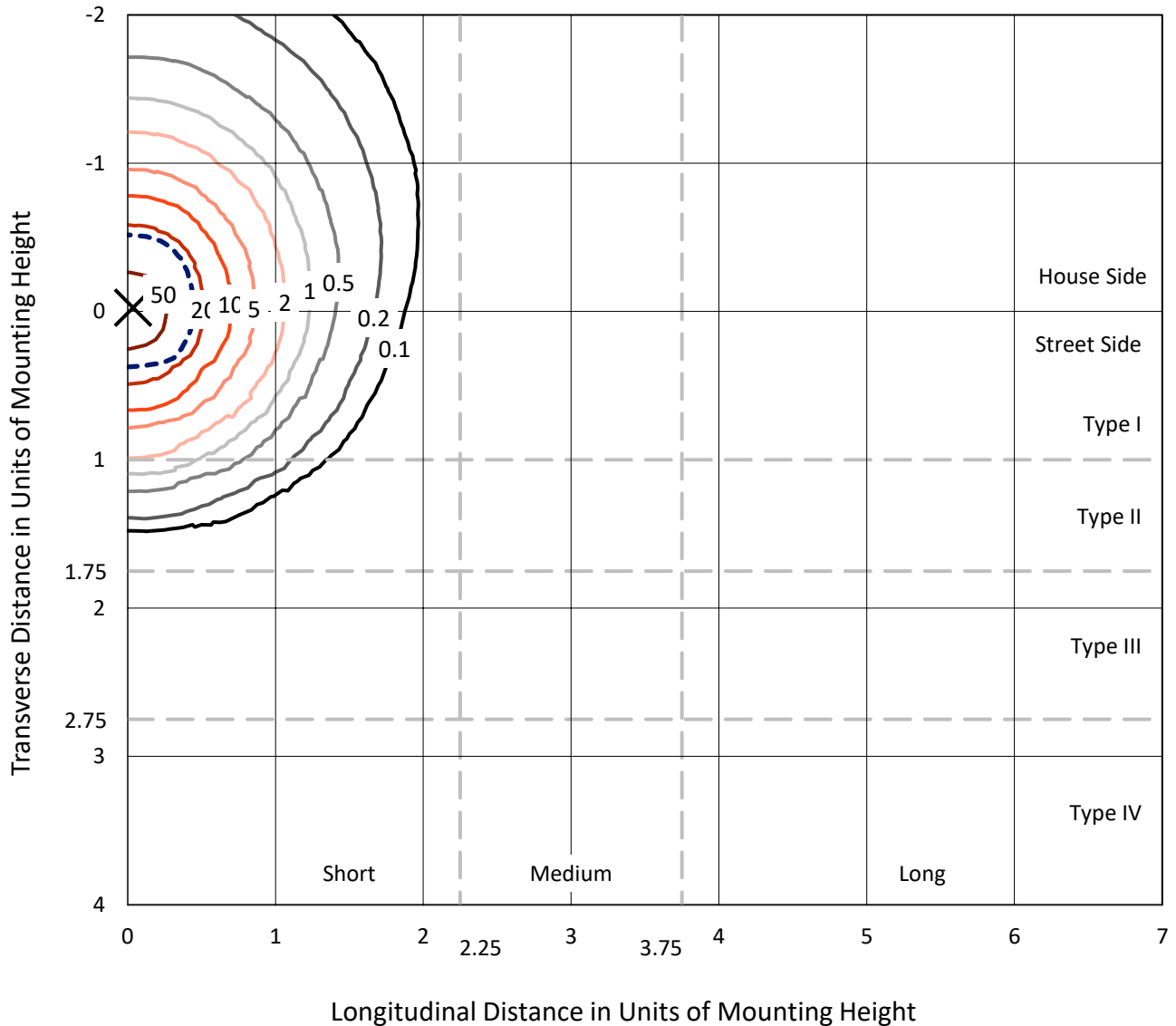
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

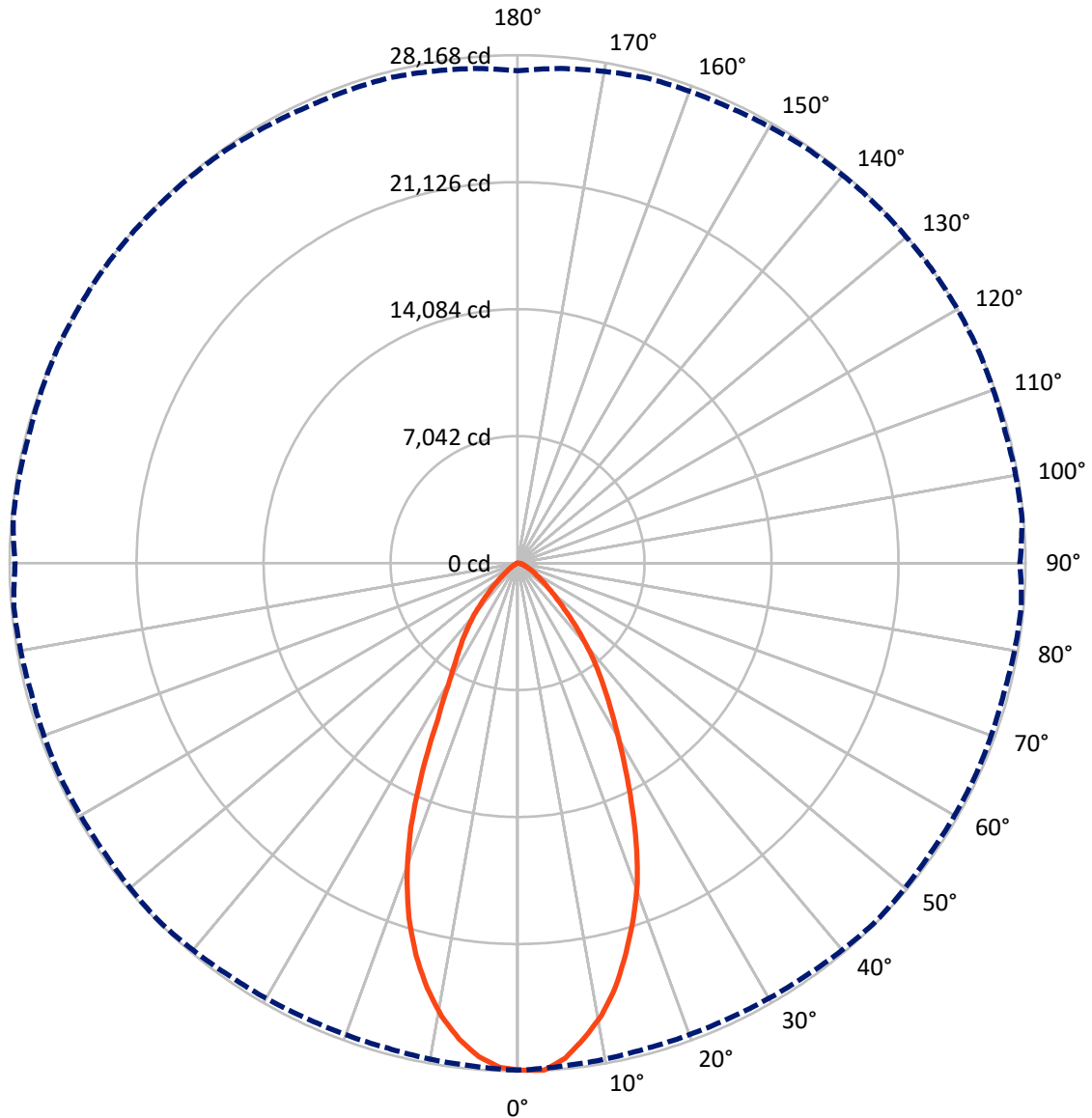
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.3 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	13356.7	0.0	13356.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10181.9	0.0	10181.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	23538.6	0.0	23538.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2553.7	10.8
10°-20°	6087.4	25.9
20°-30°	6199.9	26.3
30°-40°	4623.2	19.6
40°-50°	2415.3	10.3
50°-60°	1015.9	4.3
60°-70°	414.9	1.8
70°-80°	174.6	0.7
80°-90°	53.8	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°	23538.6	100.0
0°-180°	23538.6	100.0



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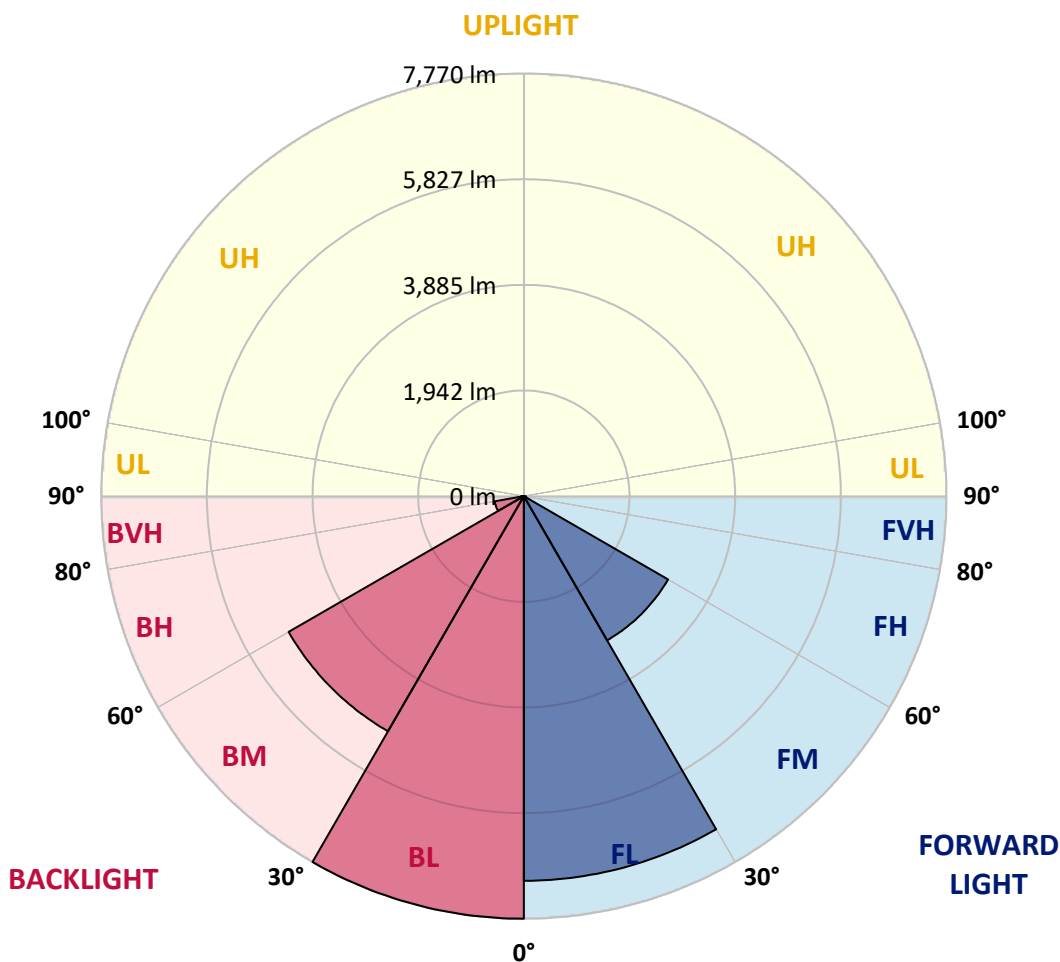
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7071.3	30.0			
FM (30°-60°)	3061.3	13.0			
FH (60°-80°)	44.3	0.2			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	7769.6	33.0	B5		
BM (30°-60°)	4993.1	21.2	B3/5000		
BH (60°-80°)	545.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	48.8	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°	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0
2.5°	28126.0	28011.1	27847.8	27832.7	27917.4	28101.8	27983.9	27989.9	27917.4	28041.3
5°	27684.5	27575.7	27463.8	27315.6	27439.6	27518.2	27457.8	27391.2	27297.5	27418.5
7.5°	26850.0	26789.5	26623.2	26556.7	26632.3	26720.0	26590.0	26571.8	26441.8	26599.0
10°	25574.0	25549.8	25386.6	25347.3	25413.8	25546.8	25489.4	25477.3	25395.6	25380.5
12.5°	24249.7	24155.9	23953.3	23941.3	24041.0	24240.6	24086.4	23938.2	23983.6	24022.9
15°	20839.0	20739.2	21241.1	22030.3	22444.5	22429.4	22474.8	22296.4	22242.0	22260.1
17.5°	16566.6	16397.2	16578.7	17800.2	19768.6	20911.6	20597.1	20213.1	20007.5	19871.4
20°	14298.8	14307.9	14274.6	14589.1	15816.7	18423.1	18347.5	17606.7	17337.6	17225.7
22.5°	12920.1	12868.7	12796.1	12895.9	13225.4	14755.4	15780.4	15100.1	15006.4	14882.4
25°	11568.5	11568.5	11480.8	11580.6	11674.3	11695.5	12723.5	13001.7	12820.3	12820.3
27.5°	10398.3	10337.9	10298.5	10343.9	10219.9	9624.3	9754.3	11178.4	11054.5	10978.9
30°	9237.2	9219.1	9152.6	9213.1	8753.5	8082.2	7810.1	9433.8	9563.8	9536.6
32.5°	7625.6	7698.2	7994.5	8088.3	7302.1	6760.9	6500.8	7831.3	8351.3	8330.2
35°	5182.5	5243.0	5581.7	6700.4	6053.3	5666.3	5590.7	6228.7	7084.4	7166.0
37.5°	4127.3	4118.2	4215.0	4414.5	4865.1	4771.3	4750.2	4916.5	5778.2	5814.5
40°	3401.6	3389.5	3386.5	3223.2	3111.3	3967.0	3909.6	3809.8	4556.6	4629.2
42.5°	2742.4	2754.5	2763.6	2406.8	2243.5	3059.9	3026.7	2923.9	3574.0	3658.6
45°	2152.8	2149.8	2168.0	1793.0	1747.7	1956.3	2261.7	2180.1	2697.1	2787.8
47.5°	1115.7	1155.0	1399.9	1387.9	1409.0	1387.9	1711.4	1690.2	2028.9	2174.0
50°	749.9	762.0	783.1	786.1	1109.7	1022.0	1161.1	1315.3	1421.1	1644.9
52.5°	580.5	589.6	535.2	501.9	680.3	755.9	762.0	910.1	991.8	1218.5
55°	323.5	362.8	390.1	393.1	374.9	559.4	556.4	674.3	737.8	889.0
57.5°	42.3	51.4	78.6	254.0	251.0	311.4	390.1	489.8	526.1	650.1
60°	3.0	6.0	9.1	39.3	166.3	181.4	266.1	305.4	365.9	456.6
62.5°	0.0	0.0	3.0	9.1	33.3	105.8	139.1	160.3	214.7	299.3
65°	0.0	0.0	3.0	6.0	12.1	39.3	54.4	87.7	127.0	184.4
67.5°	0.0	0.0	3.0	6.0	9.1	15.1	24.2	39.3	66.5	111.9
70°	0.0	0.0	3.0	6.0	9.1	12.1	18.1	24.2	36.3	60.5
72.5°	0.0	0.0	3.0	3.0	6.0	15.1	15.1	18.1	24.2	33.3
75°	0.0	0.0	3.0	6.0	9.1	15.1	15.1	15.1	18.1	21.2
77.5°	0.0	0.0	3.0	6.0	9.1	15.1	12.1	15.1	15.1	15.1
80°	0.0	0.0	3.0	6.0	9.1	15.1	18.1	15.1	12.1	12.1
82.5°	0.0	0.0	3.0	9.1	9.1	21.2	21.2	21.2	9.1	9.1
85°	0.0	0.0	6.0	9.1	15.1	24.2	24.2	18.1	9.1	6.0
87.5°	0.0	0.0	3.0	6.0	6.0	12.1	18.1	15.1	6.0	3.0
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°
28123.0	0°	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0	28123.0
27859.9	2.5°	28083.7	28008.1	28150.2	28168.3	28107.8	28032.3	27856.9	27841.8	27536.4
27243.1	5°	27551.5	27427.5	27518.2	27578.7	27557.5	27475.9	27403.3	27336.8	27061.7
26242.3	7.5°	26559.7	26514.4	26556.7	26602.1	26689.8	26602.1	26571.8	26502.3	26230.2
25256.5	10°	25459.1	25374.5	25534.7	25513.6	25489.4	25465.2	25338.2	25350.3	25029.8
23914.0	12.5°	24107.6	23965.4	24119.6	24137.8	24119.6	24035.0	23892.9	23953.3	23660.1
22099.9	15°	22290.3	22275.2	22387.1	22459.7	22511.1	22420.4	22372.0	22402.2	22226.8
19765.6	17.5°	20058.9	20255.4	20621.3	20745.3	20748.3	20842.0	20814.8	20778.5	20648.5
17180.4	20°	17434.4	17812.3	18374.7	18952.2	19118.5	19039.9	19003.6	19070.2	18876.6
14752.4	22.5°	15012.4	15335.9	15989.1	16832.7	17319.5	17367.8	17358.8	17301.3	17225.7
12808.2	25°	12956.3	13243.6	13869.5	14640.5	15574.8	15713.9	15720.0	15701.8	15635.3
11045.4	27.5°	11220.8	11568.5	11913.2	12602.6	13597.4	14171.8	14099.3	14078.1	14053.9
9557.8	30°	9648.5	10086.9	10410.4	10839.8	11731.8	12508.8	12584.4	12548.1	12490.7
8327.1	32.5°	8402.7	8662.8	9074.0	9364.2	10005.3	10885.1	11175.4	11148.2	11096.8
7217.5	35°	7320.3	7423.1	7746.6	8070.1	8496.5	9349.1	9778.5	9718.0	9708.9
5881.0	37.5°	6029.2	6373.9	6552.2	6878.8	7178.1	7840.3	8433.0	8405.7	8408.8
4729.0	40°	4868.1	5067.6	5421.4	5696.6	5971.7	6455.5	7114.6	7132.8	7126.7
3661.6	42.5°	3737.2	3930.7	4302.7	4602.0	4846.9	5146.3	5775.2	5796.3	5823.5
2851.3	45°	2917.8	3041.8	3313.9	3625.4	3885.4	4066.8	4544.5	4680.6	4683.6
2210.3	47.5°	2264.7	2406.8	2600.3	2899.7	3153.7	3283.7	3631.4	3815.8	3806.8
1696.3	50°	1777.9	1907.9	2065.2	2301.0	2576.1	2679.0	2936.0	3117.4	3108.3
1279.0	52.5°	1360.6	1526.9	1666.0	1847.4	2116.6	2204.2	2388.7	2597.3	2567.1
937.3	55°	1031.1	1200.4	1330.4	1481.6	1726.5	1838.4	1965.4	2131.7	2137.7
725.7	57.5°	777.1	952.4	1070.4	1224.6	1409.0	1533.0	1629.7	1808.1	1805.1
495.9	60°	556.4	707.5	849.6	1009.9	1152.0	1294.1	1360.6	1530.0	1536.0
350.7	62.5°	402.1	544.3	680.3	819.4	946.4	1085.5	1146.0	1279.0	1297.1
229.8	65°	281.2	381.0	538.2	644.0	786.1	889.0	967.6	1082.5	1103.6
136.1	67.5°	181.4	275.2	426.3	520.1	650.1	737.8	819.4	910.1	937.3
87.7	70°	108.9	208.6	317.5	417.3	535.2	613.8	692.4	771.0	786.1
42.3	72.5°	69.5	145.1	229.8	338.6	429.4	514.0	583.6	641.0	595.7
27.2	75°	39.3	99.8	181.4	266.1	347.7	429.4	486.8	517.0	414.2
18.1	77.5°	24.2	72.6	148.2	214.7	269.1	344.7	381.0	399.1	296.3
12.1	80°	15.1	54.4	124.0	175.4	175.4	254.0	296.3	311.4	214.7
9.1	82.5°	12.1	39.3	96.8	133.0	117.9	190.5	232.8	235.8	151.2
6.0	85°	9.1	30.2	60.5	87.7	81.6	133.0	136.1	151.2	99.8
6.0	87.5°	6.0	18.1	36.3	51.4	45.4	63.5	72.6	81.6	54.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28123.0
27297.5
26840.9
26172.7
24920.9
23575.4
22015.2
20455.0
18737.6
17080.6
15411.5
13911.8
12418.1
10960.7
9609.2
8312.0
7020.9
5732.8
4605.0
3773.5
3108.3
2570.1
2137.7
1799.1
1520.9
1291.1
1097.6
934.3
774.1
553.3
393.1
278.2
199.6
139.1
90.7
48.4
0.0

(END OF REPORT)