

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: P637361

Luminaire Tested: **IFLD-M-SA4A-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17567.4 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

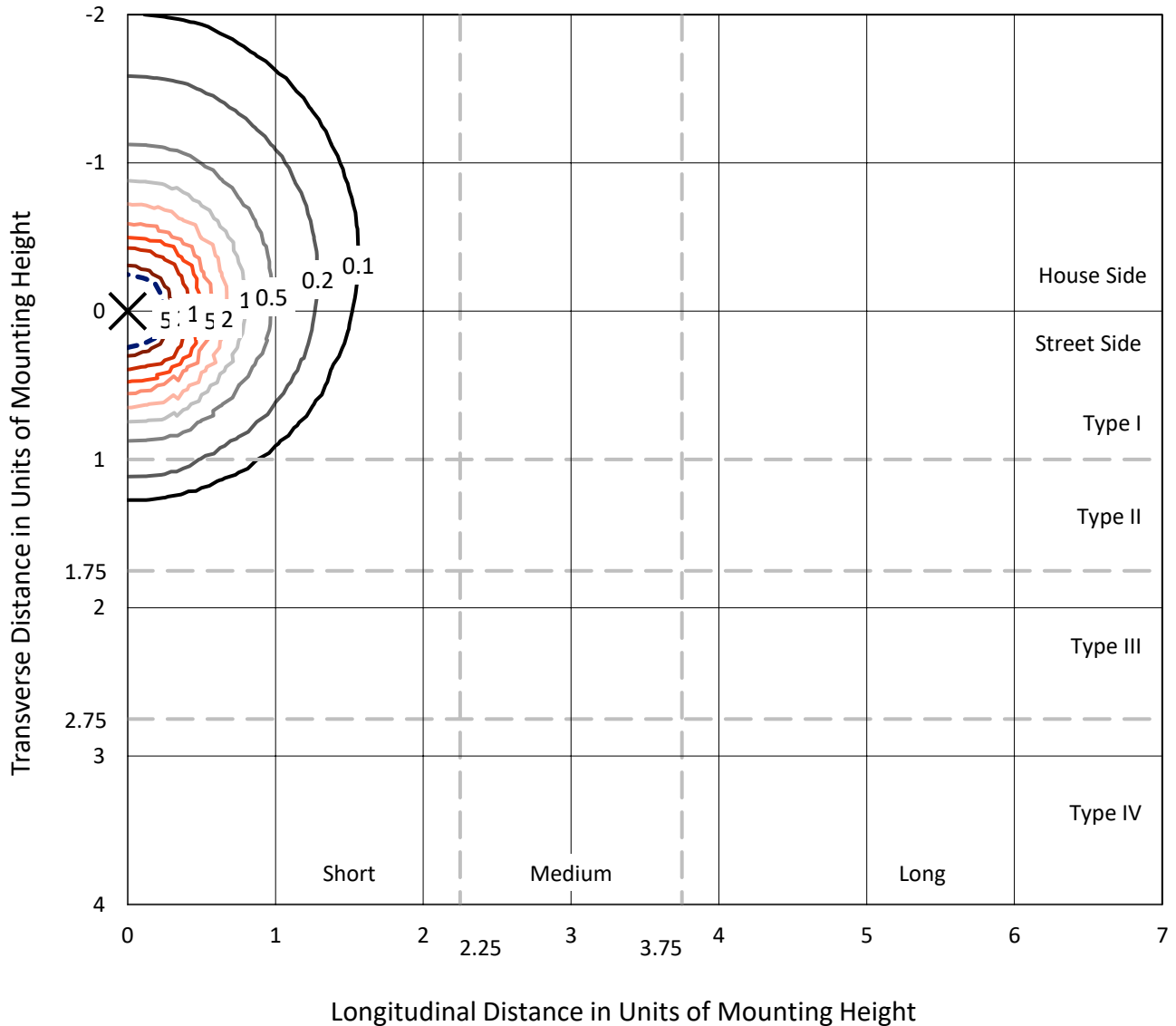
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

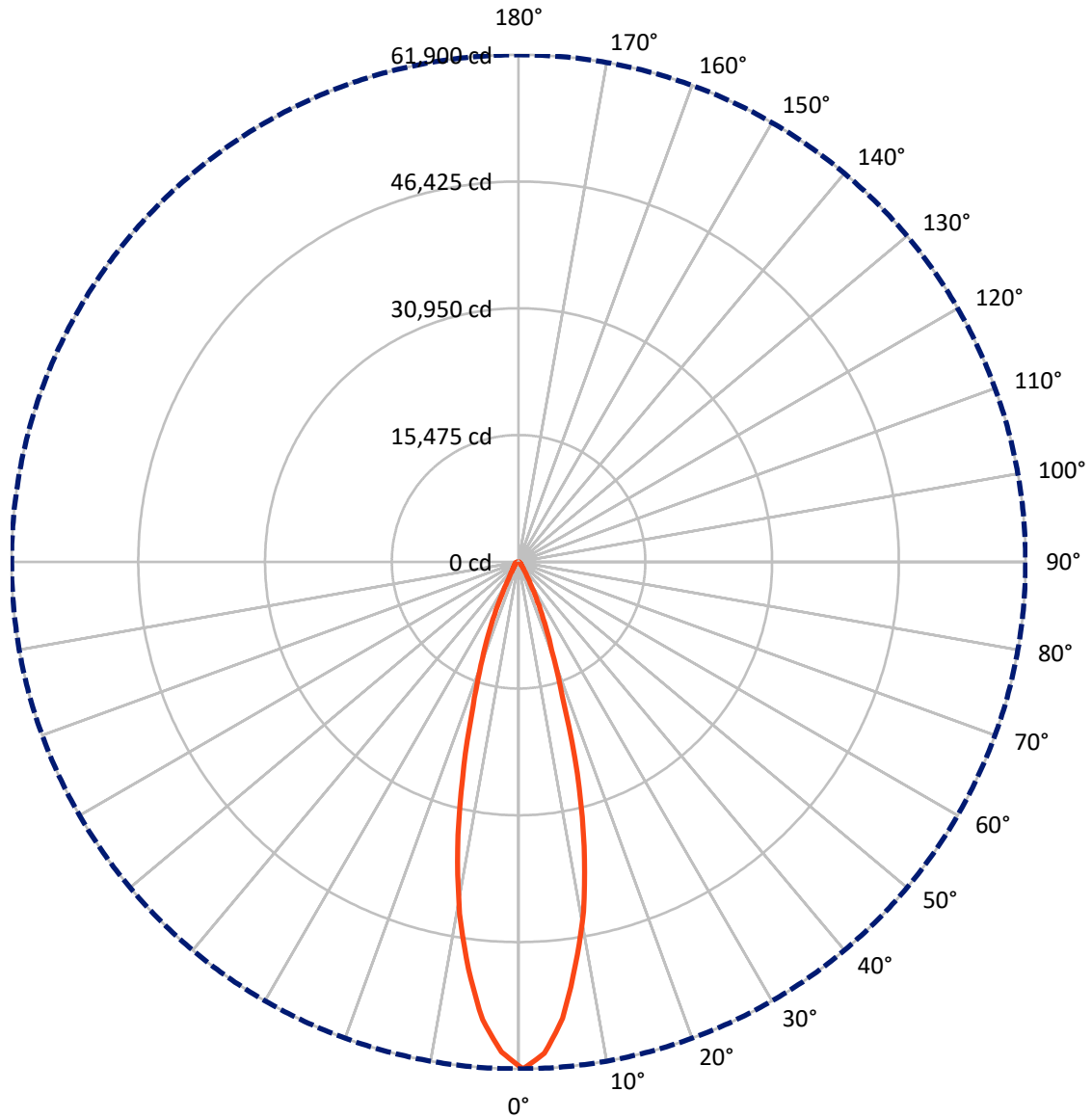
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 154.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9262.7	0.0	9262.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8304.7	0.0	8304.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	17567.4	0.0	17567.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4995.9	28.4
10°-20°	7566.2	43.1
20°-30°	3193.0	18.2
30°-40°	832.8	4.7
40°-50°	421.2	2.4
50°-60°	275.3	1.6
60°-70°	164.9	0.9
70°-80°	86.8	0.5
80°-90°	31.3	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°	17567.4	100.0
0°-180°	17567.4	100.0

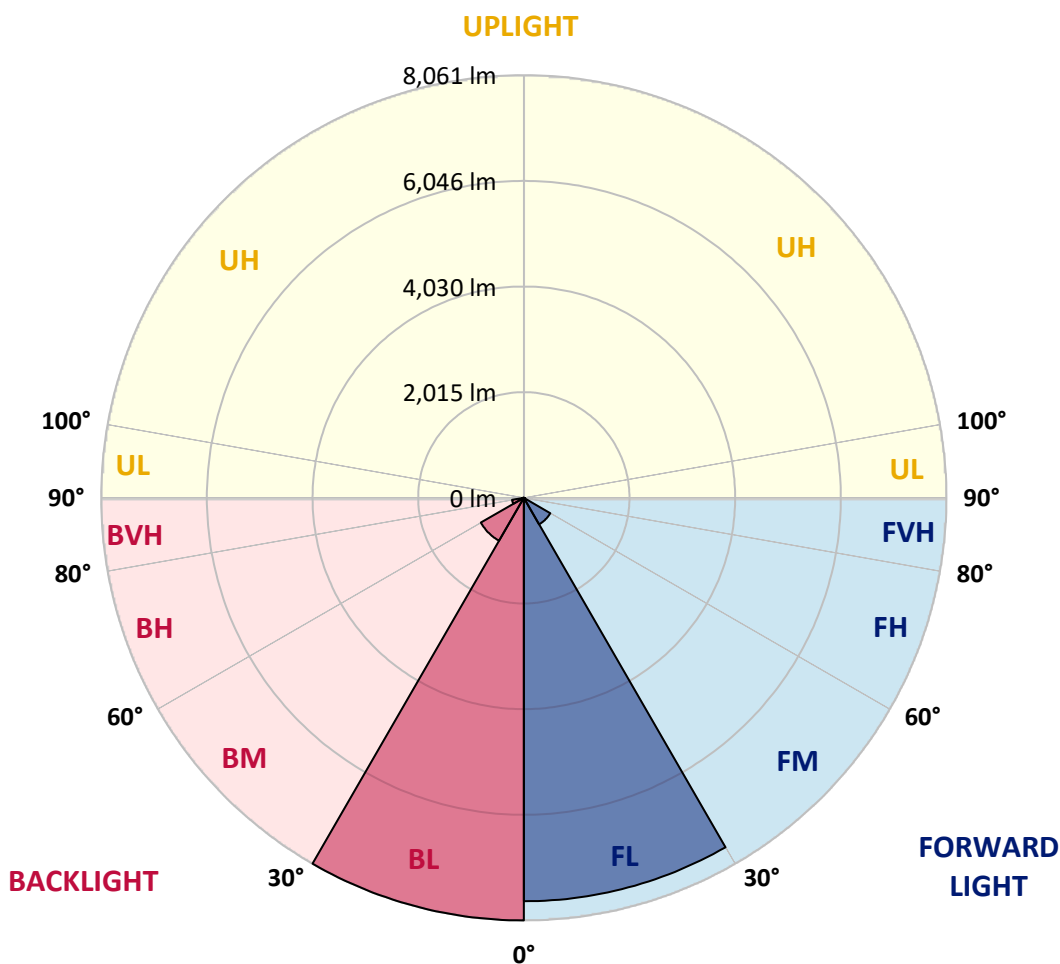


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7694.4	43.8			
FM (30°-60°)	582.7	3.3			
FH (60°-80°)	23.7	0.1			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	8060.7	45.9	B5		
BM (30°-60°)	946.6	5.4	B1/1000		
BH (60°-80°)	228.0	1.3	B1/500		G0/660
BVH (80°-90°)	27.5	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1
2.5°	60096.9	60130.4	60006.1	60274.5	60065.3	60625.6	60347.4	60781.5	60635.5	60878.1
5°	55993.4	55938.1	55902.6	56318.9	56198.5	56800.3	56415.6	56289.3	56679.9	56608.9
7.5°	49796.7	49942.6	49859.8	49968.3	50029.5	50716.0	50933.0	50763.4	50769.3	50867.9
10°	43444.1	43229.0	42923.3	43126.5	43556.5	43856.4	43736.1	43984.6	43929.4	44164.2
12.5°	35627.7	35797.3	35625.7	35444.2	36195.8	36113.0	36322.1	36458.2	36116.9	36876.5
15°	26836.7	26925.4	27134.6	27120.7	27698.8	27815.2	27787.6	27931.6	27665.2	27791.5
17.5°	17240.7	17540.6	18102.9	19053.8	20123.0	20247.3	20215.8	20097.4	19969.2	19827.1
20°	11580.6	11549.1	11752.3	12030.4	14244.0	14829.9	14812.1	14441.2	13904.6	13802.0
22.5°	8112.4	8171.5	8143.9	8420.1	8877.8	10493.6	10294.3	9917.5	9741.9	9627.5
25°	5336.6	5314.9	5453.0	5535.8	5928.4	6125.7	6824.1	6684.0	6413.7	6443.3
27.5°	3253.2	3280.8	3332.1	3403.2	3681.3	3618.2	4016.7	4070.0	3983.2	3890.5
30°	1996.5	2016.3	2057.7	2109.0	2205.6	2136.6	2247.1	2438.4	2406.9	2341.8
32.5°	1355.3	1357.3	1386.9	1406.6	1394.8	1329.7	1365.2	1546.7	1550.7	1544.7
35°	974.6	974.6	1002.2	1018.0	984.5	931.2	937.1	1049.6	1098.9	1108.7
37.5°	672.7	674.7	722.1	769.4	731.9	718.1	694.4	769.4	848.3	860.2
40°	511.0	509.0	532.7	568.2	572.1	546.5	554.4	601.7	682.6	692.5
42.5°	414.3	416.3	428.1	424.2	426.1	459.7	471.5	493.2	568.2	585.9
45°	349.2	351.2	357.1	337.4	329.5	380.8	396.5	408.4	471.5	493.2
47.5°	288.0	292.0	297.9	276.2	272.3	305.8	333.4	345.2	400.5	424.2
50°	207.1	211.1	232.8	221.0	232.8	240.7	278.2	295.9	333.4	365.0
52.5°	149.9	153.9	159.8	161.8	191.4	195.3	222.9	250.6	268.3	303.8
55°	118.4	122.3	118.4	114.4	140.1	161.8	171.6	201.2	215.0	256.5
57.5°	67.1	71.0	76.9	88.8	92.7	124.3	134.2	159.8	171.6	211.1
60°	11.8	13.8	21.7	53.3	65.1	78.9	100.6	122.3	138.1	165.7
62.5°	2.0	2.0	3.9	11.8	37.5	55.2	73.0	86.8	100.6	126.3
65°	0.0	0.0	2.0	3.9	9.9	31.6	39.5	51.3	69.0	90.8
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	17.8	31.6	39.5	61.2
70°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	13.8	23.7	37.5
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	11.8	11.8	23.7
75°	0.0	0.0	2.0	3.9	5.9	9.9	11.8	11.8	9.9	9.9
77.5°	0.0	0.0	2.0	3.9	7.9	11.8	13.8	11.8	7.9	7.9
80°	0.0	0.0	3.9	5.9	9.9	13.8	17.8	13.8	7.9	3.9
82.5°	0.0	0.0	3.9	7.9	9.9	15.8	21.7	17.8	7.9	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.8	21.7	15.8	7.9	2.0
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	11.8	9.9	3.9	2.0
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°
61900.1	0°	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1	61900.1
60418.5	2.5°	60765.7	61081.3	61146.4	61059.6	61185.9	60959.0	60785.4	60335.6	60065.3
56587.2	5°	56952.2	56904.8	57234.3	57342.8	57329.0	57155.4	56912.7	56640.5	56376.1
50676.5	7.5°	50992.2	51053.4	51353.2	51544.6	51447.9	51230.9	51063.2	50858.0	50680.5
44249.0	10°	44653.4	44233.2	44606.1	44606.1	44864.5	44251.0	44308.2	43791.3	43815.0
36862.7	12.5°	36988.9	37140.8	37202.0	37377.6	37075.7	36750.2	36351.7	36272.8	36026.2
27550.8	15°	27947.4	28381.4	28008.5	28645.8	28338.0	27998.7	27937.5	27325.9	27519.3
19983.0	17.5°	19884.3	20363.7	20513.7	20878.6	20598.5	20397.3	20142.8	19957.3	19943.5
13989.5	20°	14099.9	14581.3	14691.8	15129.8	15098.2	15035.1	14820.0	14585.3	14330.8
9522.9	22.5°	9667.0	10059.6	10426.5	11016.4	11006.5	10821.1	10799.4	10467.9	10473.8
6433.5	25°	6500.5	6786.6	6873.4	7477.1	7544.2	7524.4	7412.0	7104.2	7220.6
3929.9	27.5°	3933.9	4184.4	4478.4	4691.4	4892.7	4861.1	4748.6	4577.0	4502.0
2361.5	30°	2424.6	2537.1	2645.6	2902.1	3022.4	3085.5	3032.3	2872.5	2884.3
1554.6	32.5°	1588.1	1682.8	1761.8	1923.5	1986.7	2103.1	2081.4	2047.8	2008.4
1118.6	35°	1158.1	1227.1	1280.4	1355.3	1436.2	1534.9	1550.7	1536.8	1521.1
864.1	37.5°	883.8	954.9	1016.0	1047.6	1110.7	1187.7	1231.1	1229.1	1217.2
704.3	40°	718.1	771.4	826.6	868.1	911.5	968.7	1021.9	1027.9	1027.9
591.9	42.5°	599.7	645.1	700.4	743.8	775.3	828.6	883.8	887.8	883.8
501.1	45°	512.9	552.4	605.7	657.0	682.6	722.1	775.3	787.2	779.3
430.1	47.5°	445.9	481.4	526.8	582.0	609.6	645.1	694.4	708.3	706.3
370.9	50°	382.7	424.2	469.5	514.9	550.4	584.0	631.3	647.1	641.2
315.7	52.5°	337.4	374.8	414.3	463.6	505.0	534.6	572.1	599.7	591.9
266.3	55°	282.1	327.5	368.9	410.4	461.6	493.2	528.7	562.3	554.4
224.9	57.5°	244.6	282.1	329.5	366.9	418.2	455.7	491.2	526.8	524.8
183.5	60°	205.2	244.6	290.0	329.5	376.8	418.2	453.8	493.2	497.2
138.1	62.5°	161.8	209.1	248.6	294.0	341.3	386.7	418.2	457.7	463.6
104.6	65°	122.3	171.6	215.0	258.4	305.8	355.1	382.7	416.3	422.2
76.9	67.5°	90.8	132.2	183.5	222.9	272.3	319.6	345.2	372.9	382.7
47.3	70°	69.0	100.6	153.9	191.4	242.7	280.1	307.8	331.4	339.3
31.6	72.5°	43.4	78.9	124.3	163.7	209.1	242.7	262.4	276.2	288.0
17.8	75°	29.6	61.2	100.6	140.1	173.6	199.3	217.0	228.9	238.7
7.9	77.5°	17.8	47.3	82.9	116.4	138.1	157.8	175.6	183.5	189.4
5.9	80°	9.9	35.5	69.0	94.7	108.5	122.3	136.1	146.0	149.9
3.9	82.5°	5.9	27.6	55.2	73.0	78.9	92.7	106.5	112.5	112.5
2.0	85°	3.9	19.7	37.5	53.3	57.2	67.1	71.0	75.0	78.9
2.0	87.5°	3.9	11.8	23.7	29.6	31.6	35.5	37.5	41.4	45.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<i>61900.1</i>
59866.1
56080.2
50078.8
43584.2
35801.3
27325.9
19576.6
14220.3
10359.4
7037.1
4436.9
2833.0
1994.5
1515.1
1211.3
1016.0
879.9
779.3
702.3
637.2
589.9
558.3
526.8
499.1
467.6
428.1
386.7
343.3
286.1
236.7
187.4
146.0
110.5
76.9
43.4
0.0

(END OF REPORT)