

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: P637406

Luminaire Tested: **IFLD-S-SA2C-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637406
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14022.5 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

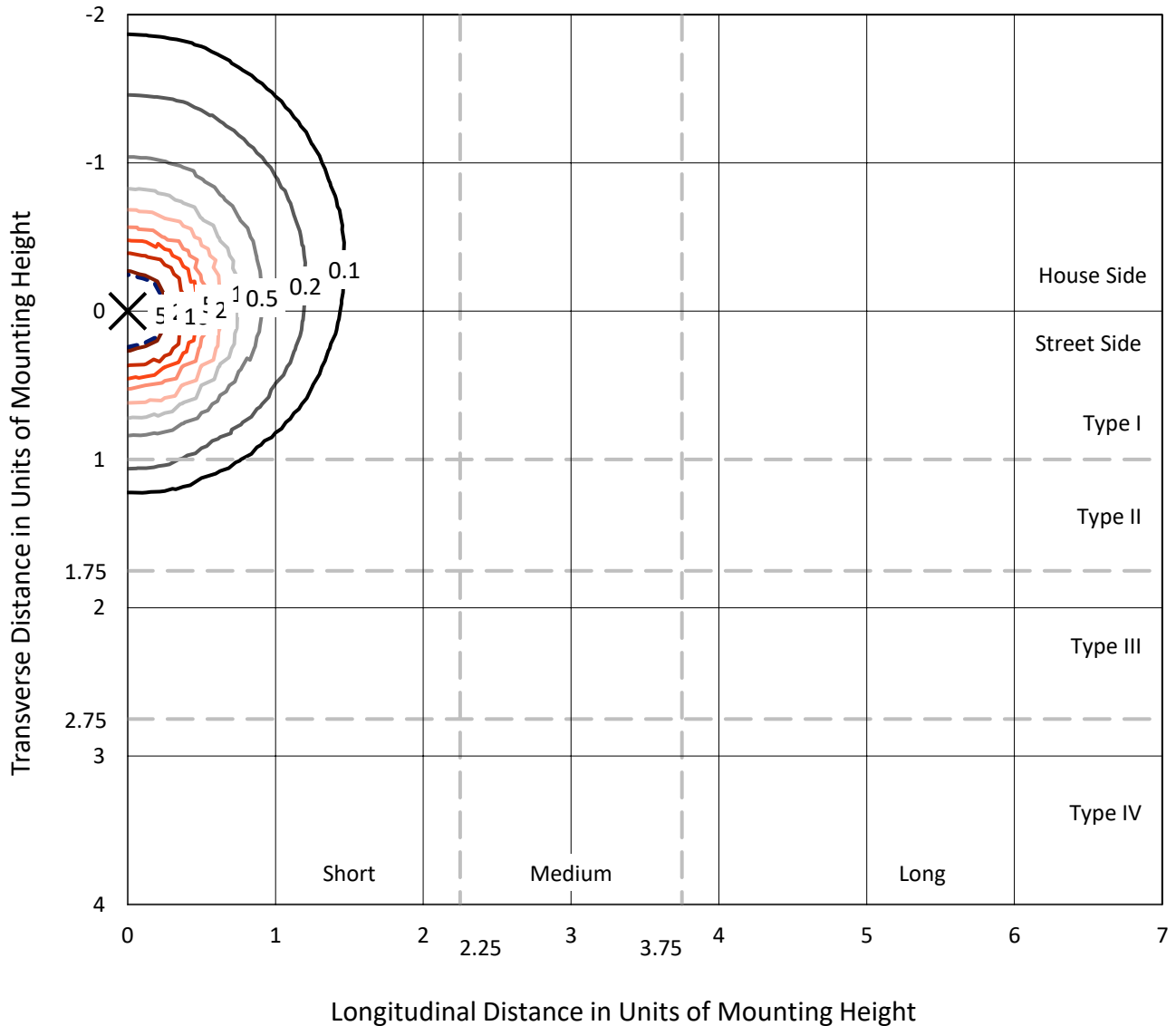
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

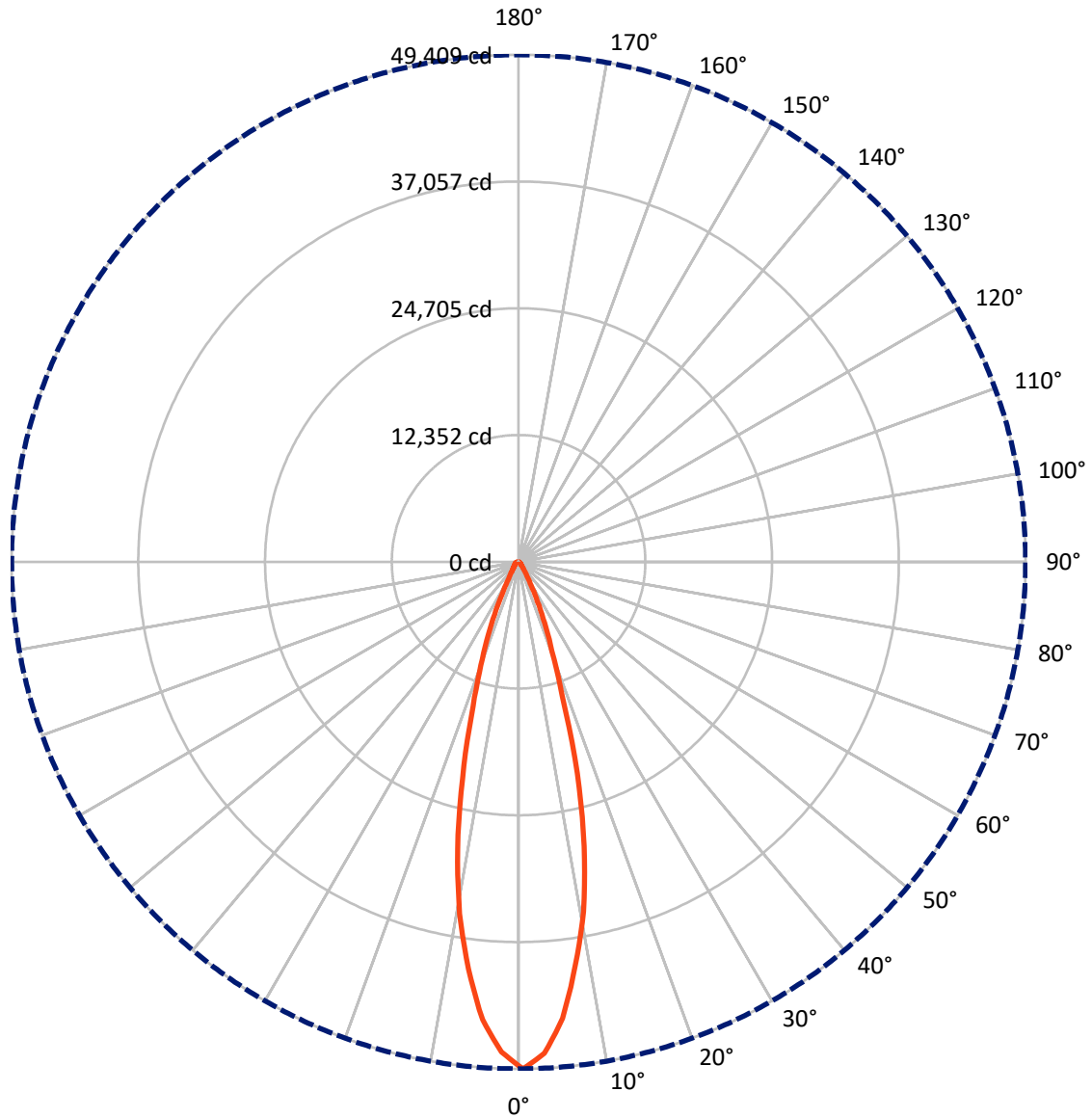
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 123.5 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	7393.6	0.0	7393.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6628.9	0.0	6628.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	14022.5	0.0	14022.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3987.8	28.4
10°-20°	6039.4	43.1
20°-30°	2548.7	18.2
30°-40°	664.7	4.7
40°-50°	336.2	2.4
50°-60°	219.8	1.6
60°-70°	131.7	0.9
70°-80°	69.3	0.5
80°-90°	25.0	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°	14022.5	100.0
0°-180°	14022.5	100.0

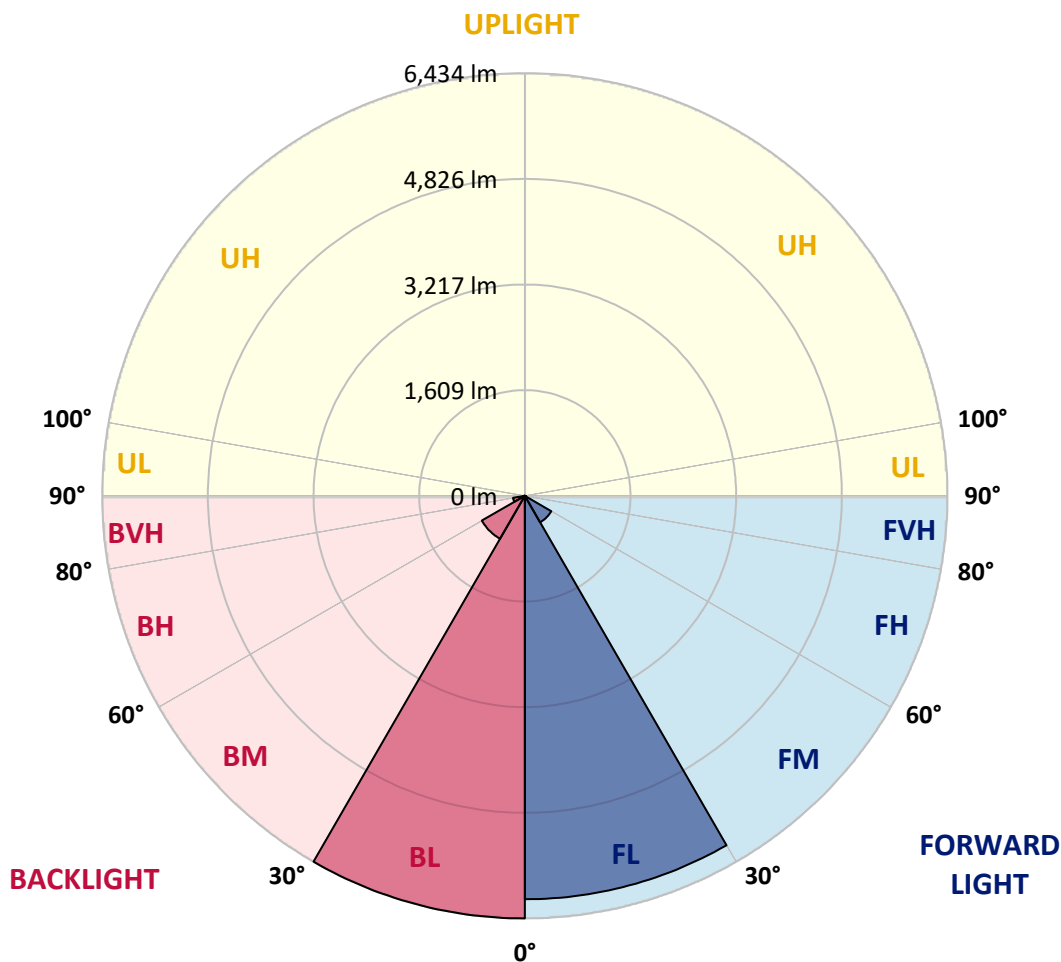


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6141.8	43.8			
FM (30°-60°)	465.1	3.3			
FH (60°-80°)	18.9	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6434.1	45.9	B5		
BM (30°-60°)	755.5	5.4	B1/1000		
BH (60°-80°)	182.0	1.3	B1/500		G0/660
BVH (80°-90°)	22.0	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°	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3
2.5°	47969.9	47996.7	47897.5	48111.7	47944.7	48392.0	48169.9	48516.4	48399.8	48593.5
5°	44694.5	44650.4	44622.0	44954.3	44858.2	45338.5	45031.5	44930.7	45242.5	45185.8
7.5°	39748.2	39864.7	39798.6	39885.2	39934.0	40482.0	40655.2	40519.8	40524.5	40603.3
10°	34677.5	34505.9	34261.8	34424.0	34767.3	35006.6	34910.6	35109.0	35064.9	35252.3
12.5°	28438.4	28573.8	28436.8	28291.9	28891.9	28825.7	28992.7	29101.3	28828.9	29435.2
15°	21421.3	21492.1	21659.1	21648.0	22109.4	22202.4	22180.3	22295.3	22082.7	22183.5
17.5°	13761.7	14001.1	14449.9	15208.9	16062.4	16161.6	16136.4	16041.9	15939.6	15826.2
20°	9243.8	9218.6	9380.8	9602.8	11369.7	11837.4	11823.2	11527.1	11098.8	11016.9
22.5°	6475.4	6522.6	6500.6	6721.0	7086.4	8376.1	8217.0	7916.3	7776.1	7684.8
25°	4259.7	4242.4	4352.6	4418.7	4732.1	4889.6	5447.0	5335.2	5119.5	5143.1
27.5°	2596.8	2618.8	2659.7	2716.4	2938.5	2888.1	3206.2	3248.7	3179.4	3105.4
30°	1593.6	1609.4	1642.5	1683.4	1760.6	1705.5	1793.6	1946.4	1921.2	1869.2
32.5°	1081.9	1083.4	1107.0	1122.8	1113.3	1061.4	1089.7	1234.6	1237.8	1233.0
35°	777.9	777.9	800.0	812.6	785.8	743.3	748.0	837.8	877.1	885.0
37.5°	537.0	538.6	576.4	614.2	584.2	573.2	554.3	614.2	677.1	686.6
40°	407.9	406.3	425.2	453.5	456.7	436.2	442.5	480.3	544.9	552.7
42.5°	330.7	332.3	341.7	338.6	340.1	366.9	376.4	393.7	453.5	467.7
45°	278.7	280.3	285.0	269.3	263.0	303.9	316.5	326.0	376.4	393.7
47.5°	229.9	233.1	237.8	220.5	217.3	244.1	266.1	275.6	319.7	338.6
50°	165.3	168.5	185.8	176.4	185.8	192.1	222.0	236.2	266.1	291.3
52.5°	119.7	122.8	127.6	129.1	152.8	155.9	177.9	200.0	214.2	242.5
55°	94.5	97.6	94.5	91.3	111.8	129.1	137.0	160.6	171.6	204.7
57.5°	53.5	56.7	61.4	70.9	74.0	99.2	107.1	127.6	137.0	168.5
60°	9.4	11.0	17.3	42.5	52.0	63.0	80.3	97.6	110.2	132.3
62.5°	1.6	1.6	3.1	9.4	29.9	44.1	58.3	69.3	80.3	100.8
65°	0.0	0.0	1.6	3.1	7.9	25.2	31.5	40.9	55.1	72.4
67.5°	0.0	0.0	1.6	3.1	4.7	9.4	14.2	25.2	31.5	48.8
70°	0.0	0.0	1.6	3.1	4.7	6.3	7.9	11.0	18.9	29.9
72.5°	0.0	0.0	1.6	3.1	4.7	6.3	7.9	9.4	9.4	18.9
75°	0.0	0.0	1.6	3.1	4.7	7.9	9.4	9.4	7.9	7.9
77.5°	0.0	0.0	1.6	3.1	6.3	9.4	11.0	9.4	6.3	6.3
80°	0.0	0.0	3.1	4.7	7.9	11.0	14.2	11.0	6.3	3.1
82.5°	0.0	0.0	3.1	6.3	7.9	12.6	17.3	14.2	6.3	3.1
85°	0.0	0.0	1.6	4.7	9.4	12.6	17.3	12.6	6.3	1.6
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	9.4	7.9	3.1	1.6
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°
49409.3	0°	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3	49409.3
48226.6	2.5°	48503.8	48755.7	48807.7	48738.4	48839.2	48658.1	48519.5	48160.5	47944.7
45168.5	5°	45459.8	45422.0	45685.0	45771.6	45760.6	45622.0	45428.3	45211.0	45000.0
40450.5	7.5°	40702.5	40751.3	40990.7	41143.4	41066.3	40893.0	40759.2	40595.4	40453.7
35320.0	10°	35642.8	35307.4	35605.0	35605.0	35811.3	35321.6	35367.2	34954.7	34973.6
29424.1	12.5°	29524.9	29646.2	29695.0	29835.2	29594.2	29334.4	29016.3	28953.3	28756.5
21991.3	15°	22307.9	22654.3	22356.7	22865.3	22619.7	22348.8	22300.0	21811.8	21966.1
15950.6	17.5°	15871.9	16254.5	16374.2	16665.5	16441.9	16281.3	16078.2	15930.1	15919.1
11166.5	20°	11254.7	11639.0	11727.1	12076.7	12051.5	12001.1	11829.5	11642.1	11439.0
7601.3	22.5°	7716.3	8029.6	8322.5	8793.4	8785.5	8637.5	8620.2	8355.6	8360.3
5135.2	25°	5188.8	5417.1	5486.4	5968.3	6021.8	6006.1	5916.3	5670.7	5763.6
3136.9	27.5°	3140.0	3340.0	3574.7	3744.7	3905.4	3880.2	3790.4	3653.4	3593.6
1885.0	30°	1935.4	2025.1	2111.7	2316.5	2412.5	2462.9	2420.4	2292.8	2302.3
1240.9	32.5°	1267.7	1343.3	1406.2	1535.4	1585.8	1678.7	1661.4	1634.6	1603.1
892.9	35°	924.4	979.5	1022.0	1081.9	1146.4	1225.2	1237.8	1226.7	1214.1
689.7	37.5°	705.5	762.2	811.0	836.2	886.6	948.0	982.6	981.1	971.6
562.2	40°	573.2	615.7	659.8	692.9	727.5	773.2	815.7	820.4	820.4
472.4	42.5°	478.7	514.9	559.0	593.7	618.9	661.4	705.5	708.6	705.5
400.0	45°	409.4	440.9	483.4	524.4	544.9	576.4	618.9	628.3	622.0
343.3	47.5°	355.9	384.2	420.5	464.6	486.6	514.9	554.3	565.3	563.8
296.1	50°	305.5	338.6	374.8	411.0	439.4	466.1	503.9	516.5	511.8
252.0	52.5°	269.3	299.2	330.7	370.1	403.1	426.8	456.7	478.7	472.4
212.6	55°	225.2	261.4	294.5	327.5	368.5	393.7	422.0	448.8	442.5
179.5	57.5°	195.3	225.2	263.0	292.9	333.8	363.8	392.1	420.5	418.9
146.5	60°	163.8	195.3	231.5	263.0	300.8	333.8	362.2	393.7	396.8
110.2	62.5°	129.1	166.9	198.4	234.6	272.4	308.7	333.8	365.3	370.1
83.5	65°	97.6	137.0	171.6	206.3	244.1	283.5	305.5	332.3	337.0
61.4	67.5°	72.4	105.5	146.5	177.9	217.3	255.1	275.6	297.6	305.5
37.8	70°	55.1	80.3	122.8	152.8	193.7	223.6	245.7	264.6	270.9
25.2	72.5°	34.6	63.0	99.2	130.7	166.9	193.7	209.4	220.5	229.9
14.2	75°	23.6	48.8	80.3	111.8	138.6	159.0	173.2	182.7	190.5
6.3	77.5°	14.2	37.8	66.1	92.9	110.2	126.0	140.2	146.5	151.2
4.7	80°	7.9	28.3	55.1	75.6	86.6	97.6	108.7	116.5	119.7
3.1	82.5°	4.7	22.0	44.1	58.3	63.0	74.0	85.0	89.8	89.8
1.6	85°	3.1	15.7	29.9	42.5	45.7	53.5	56.7	59.8	63.0
1.6	87.5°	3.1	9.4	18.9	23.6	25.2	28.3	29.9	33.1	36.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
49409.3
47785.7
44763.8
39973.4
34789.3
28576.9
21811.8
15626.2
11350.8
8269.0
5617.1
3541.6
2261.3
1592.1
1209.4
966.9
811.0
702.3
622.0
560.6
508.6
470.8
445.7
420.5
398.4
373.2
341.7
308.7
274.0
228.3
189.0
149.6
116.5
88.2
61.4
34.6
0.0

(END OF REPORT)