

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: P637410

Luminaire Tested: **IFLD-S-SA3B-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16787.3 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

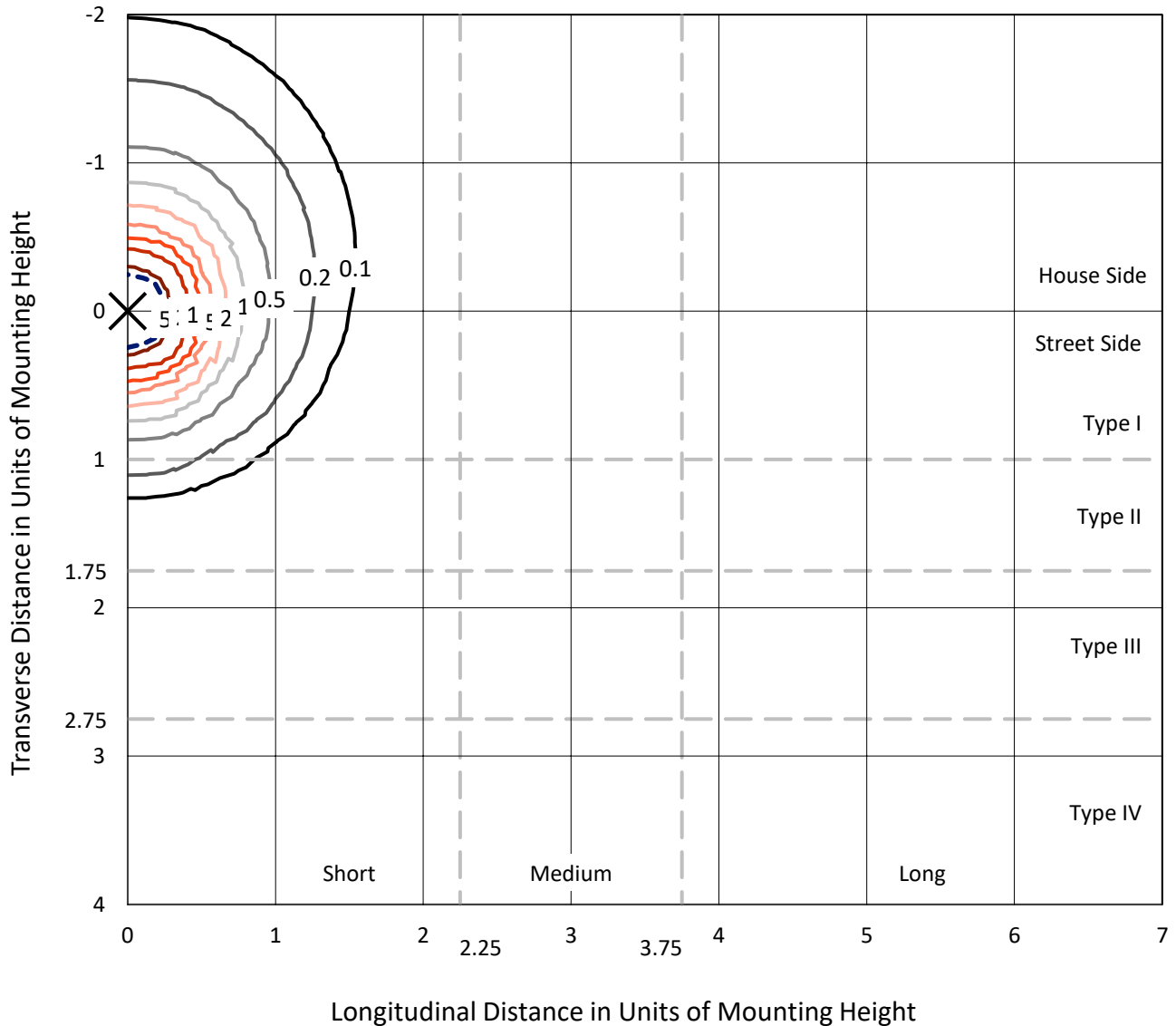
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

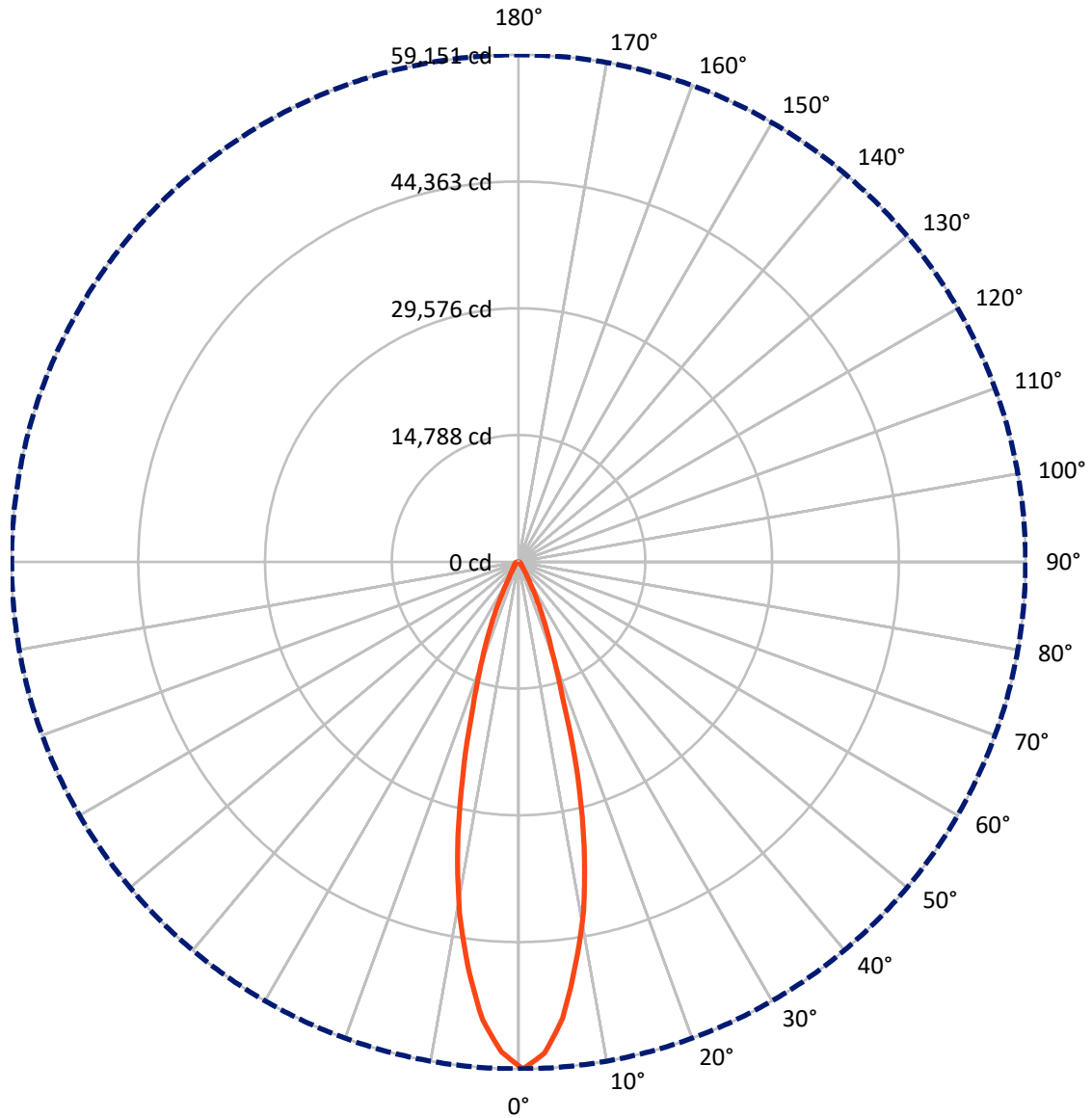
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 147.9 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	8851.4	0.0	8851.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7935.9	0.0	7935.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	16787.3	0.0	16787.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4774.0	28.4
10°-20°	7230.2	43.1
20°-30°	3051.2	18.2
30°-40°	795.8	4.7
40°-50°	402.5	2.4
50°-60°	263.1	1.6
60°-70°	157.6	0.9
70°-80°	82.9	0.5
80°-90°	30.0	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°	16787.3	100.0
0°-180°	16787.3	100.0

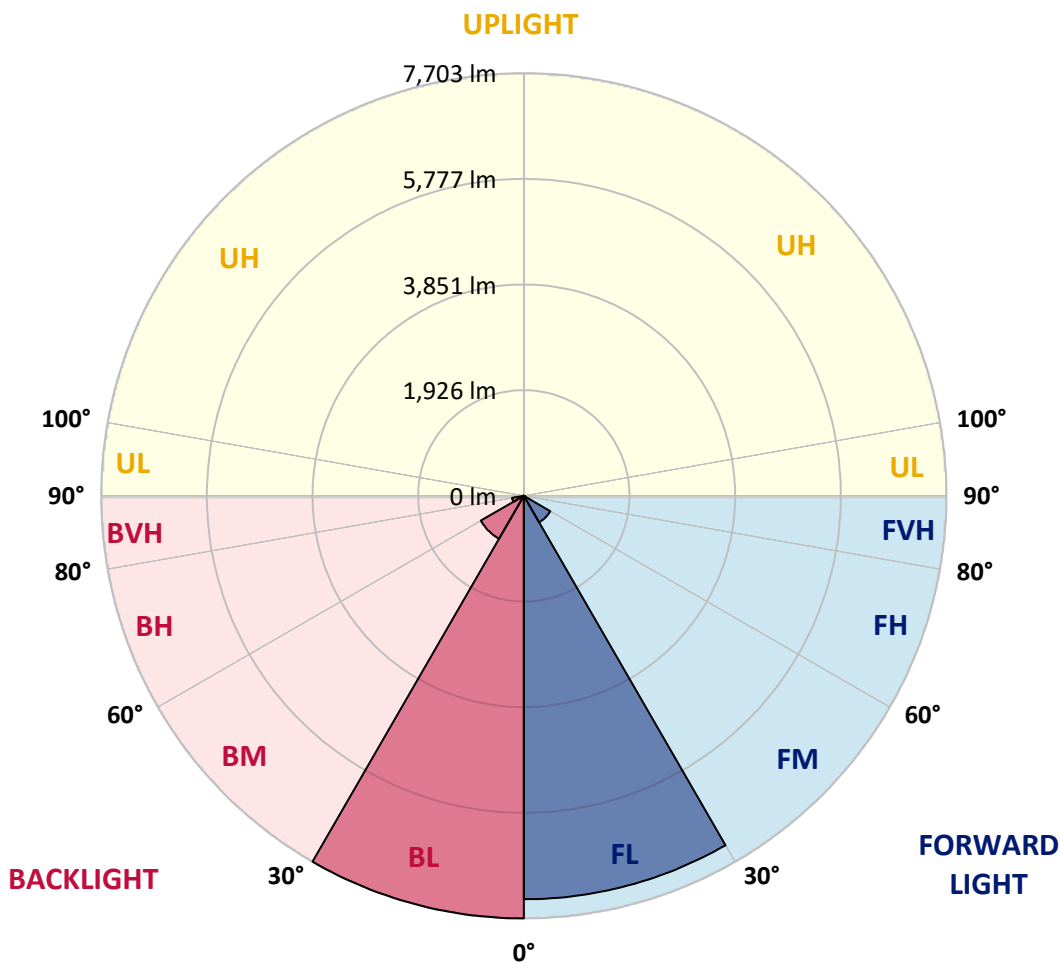


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7352.7	43.8			
FM (30°-60°)	556.8	3.3			
FH (60°-80°)	22.7	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7702.7	45.9	B5		
BM (30°-60°)	904.5	5.4	B1/1000		
BH (60°-80°)	217.8	1.3	B1/500		G0/660
BVH (80°-90°)	26.3	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°	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3
2.5°	57428.2	57460.2	57341.5	57597.9	57398.0	57933.4	57667.6	58082.4	57942.9	58174.8
5°	53506.9	53454.1	53420.2	53818.0	53703.0	54278.0	53910.3	53789.7	54163.0	54095.1
7.5°	47585.4	47724.9	47645.7	47749.4	47807.8	48463.9	48671.3	48509.1	48514.8	48609.0
10°	41514.9	41309.4	41017.2	41211.4	41622.3	41908.9	41793.9	42031.4	41978.7	42203.0
12.5°	34045.6	34207.7	34043.7	33870.2	34588.5	34509.3	34709.2	34839.2	34513.1	35238.9
15°	25644.9	25729.8	25929.6	25916.4	26468.8	26580.0	26553.6	26691.2	26436.7	26557.4
17.5°	16475.1	16761.7	17299.0	18207.7	19229.5	19348.2	19318.1	19204.9	19082.4	18946.7
20°	11066.4	11036.2	11230.4	11496.2	13611.4	14171.4	14154.4	13800.0	13287.2	13189.1
22.5°	7752.1	7808.7	7782.3	8046.2	8483.6	10027.6	9837.2	9477.1	9309.3	9200.0
25°	5099.6	5078.8	5210.8	5290.0	5665.1	5853.7	6521.0	6387.2	6128.9	6157.2
27.5°	3108.8	3135.2	3184.2	3252.0	3517.9	3457.5	3838.3	3889.3	3806.3	3717.7
30°	1907.9	1926.7	1966.3	2015.3	2107.7	2041.7	2147.3	2330.2	2300.0	2237.8
32.5°	1295.2	1297.0	1325.3	1344.2	1332.9	1270.7	1304.6	1478.0	1481.8	1476.1
35°	931.3	931.3	957.7	972.8	940.7	889.8	895.5	1002.9	1050.1	1059.5
37.5°	642.9	644.8	690.0	735.2	699.4	686.2	663.6	735.2	810.7	822.0
40°	488.3	486.4	509.0	542.9	546.7	522.2	529.8	575.0	652.3	661.7
42.5°	395.9	397.8	409.1	405.3	407.2	439.3	450.6	471.3	542.9	559.9
45°	333.7	335.6	341.2	322.4	314.8	363.9	378.9	390.2	450.6	471.3
47.5°	275.2	279.0	284.7	263.9	260.2	292.2	318.6	329.9	382.7	405.3
50°	198.0	201.7	222.5	211.1	222.5	230.0	265.8	282.8	318.6	348.8
52.5°	143.3	147.0	152.7	154.6	182.9	186.6	213.0	239.4	256.4	290.3
55°	113.1	116.9	113.1	109.3	133.9	154.6	164.0	192.3	205.5	245.1
57.5°	64.1	67.9	73.5	84.8	88.6	118.8	128.2	152.7	164.0	201.7
60°	11.3	13.2	20.7	50.9	62.2	75.4	96.1	116.9	132.0	158.4
62.5°	1.9	1.9	3.8	11.3	35.8	52.8	69.8	83.0	96.1	120.7
65°	0.0	0.0	1.9	3.8	9.4	30.2	37.7	49.0	66.0	86.7
67.5°	0.0	0.0	1.9	3.8	5.7	11.3	17.0	30.2	37.7	58.4
70°	0.0	0.0	1.9	3.8	5.7	7.5	9.4	13.2	22.6	35.8
72.5°	0.0	0.0	1.9	3.8	5.7	7.5	9.4	11.3	11.3	22.6
75°	0.0	0.0	1.9	3.8	5.7	9.4	11.3	11.3	9.4	9.4
77.5°	0.0	0.0	1.9	3.8	7.5	11.3	13.2	11.3	7.5	7.5
80°	0.0	0.0	3.8	5.7	9.4	13.2	17.0	13.2	7.5	3.8
82.5°	0.0	0.0	3.8	7.5	9.4	15.1	20.7	17.0	7.5	3.8
85°	0.0	0.0	1.9	5.7	11.3	15.1	20.7	15.1	7.5	1.9
87.5°	0.0	0.0	1.9	1.9	3.8	5.7	11.3	9.4	3.8	1.9
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°
59151.3	0°	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3	59151.3
57735.5	2.5°	58067.3	58368.9	58431.1	58348.2	58468.9	58252.1	58086.1	57656.3	57398.0
54074.4	5°	54423.1	54377.9	54692.7	54796.4	54783.2	54617.3	54385.4	54125.3	53872.6
48426.2	7.5°	48727.8	48786.3	49072.8	49255.7	49163.3	48955.9	48795.7	48599.6	48429.9
42284.1	10°	42670.5	42269.0	42625.3	42625.3	42872.3	42285.9	42340.6	41846.7	41869.3
35225.7	12.5°	35346.4	35491.5	35550.0	35717.8	35429.3	35118.3	34737.4	34662.0	34426.4
26327.4	15°	26706.3	27121.1	26764.8	27373.7	27079.6	26755.3	26696.9	26112.5	26297.2
19095.6	17.5°	19001.3	19459.5	19602.7	19951.5	19683.8	19491.5	19248.3	19071.1	19057.9
13368.2	20°	13473.8	13933.8	14039.4	14457.9	14427.7	14367.4	14161.9	13937.6	13694.4
9100.1	22.5°	9237.7	9612.8	9963.5	10527.2	10517.8	10340.5	10319.8	10003.1	10008.7
6147.8	25°	6211.9	6485.2	6568.2	7145.1	7209.2	7190.3	7082.8	6788.8	6900.0
3755.4	27.5°	3759.2	3998.6	4279.5	4483.1	4675.4	4645.2	4537.8	4373.8	4302.1
2256.6	30°	2317.0	2424.4	2528.1	2773.2	2888.2	2948.5	2897.6	2744.9	2756.2
1485.6	32.5°	1517.6	1608.1	1683.5	1838.1	1898.4	2009.7	1988.9	1956.9	1919.2
1068.9	35°	1106.6	1172.6	1223.5	1295.2	1372.5	1466.7	1481.8	1468.6	1453.5
825.7	37.5°	844.6	912.5	970.9	1001.1	1061.4	1134.9	1176.4	1174.5	1163.2
673.0	40°	686.2	737.1	789.9	829.5	871.0	925.7	976.6	982.2	982.2
565.6	42.5°	573.1	616.5	669.3	710.7	740.9	791.8	844.6	848.4	844.6
478.9	45°	490.2	527.9	578.8	627.8	652.3	690.0	740.9	752.2	744.7
411.0	47.5°	426.1	460.0	503.4	556.1	582.5	616.5	663.6	676.8	674.9
354.4	50°	365.7	405.3	448.7	492.0	526.0	558.0	603.3	618.4	612.7
301.6	52.5°	322.4	358.2	395.9	443.0	482.6	510.9	546.7	573.1	565.6
254.5	55°	269.6	312.9	352.5	392.1	441.1	471.3	505.2	537.3	529.8
214.9	57.5°	233.8	269.6	314.8	350.7	399.7	435.5	469.4	503.4	501.5
175.3	60°	196.1	233.8	277.1	314.8	360.1	399.7	433.6	471.3	475.1
132.0	62.5°	154.6	199.8	237.5	280.9	326.1	369.5	399.7	437.4	443.0
99.9	65°	116.9	164.0	205.5	247.0	292.2	339.3	365.7	397.8	403.4
73.5	67.5°	86.7	126.3	175.3	213.0	260.2	305.4	329.9	356.3	365.7
45.2	70°	66.0	96.1	147.0	182.9	231.9	267.7	294.1	316.7	324.3
30.2	72.5°	41.5	75.4	118.8	156.5	199.8	231.9	250.7	263.9	275.2
17.0	75°	28.3	58.4	96.1	133.9	165.9	190.4	207.4	218.7	228.1
7.5	77.5°	17.0	45.2	79.2	111.2	132.0	150.8	167.8	175.3	181.0
5.7	80°	9.4	33.9	66.0	90.5	103.7	116.9	130.1	139.5	143.3
3.8	82.5°	5.7	26.4	52.8	69.8	75.4	88.6	101.8	107.5	107.5
1.9	85°	3.8	18.9	35.8	50.9	54.7	64.1	67.9	71.6	75.4
1.9	87.5°	3.8	11.3	22.6	28.3	30.2	33.9	35.8	39.6	43.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
59151.3
57207.6
53589.9
47854.9
41648.7
34211.5
26112.5
18707.2
13588.8
9899.4
6724.7
4239.9
2707.2
1906.0
1447.9
1157.5
970.9
840.8
744.7
671.1
608.9
563.7
533.5
503.4
477.0
446.8
409.1
369.5
328.0
273.4
226.2
179.1
139.5
105.6
73.5
41.5
0.0

(END OF REPORT)