

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: P637317

Luminaire Tested: **IFLD-S-SA2A-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637317
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8108.3 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

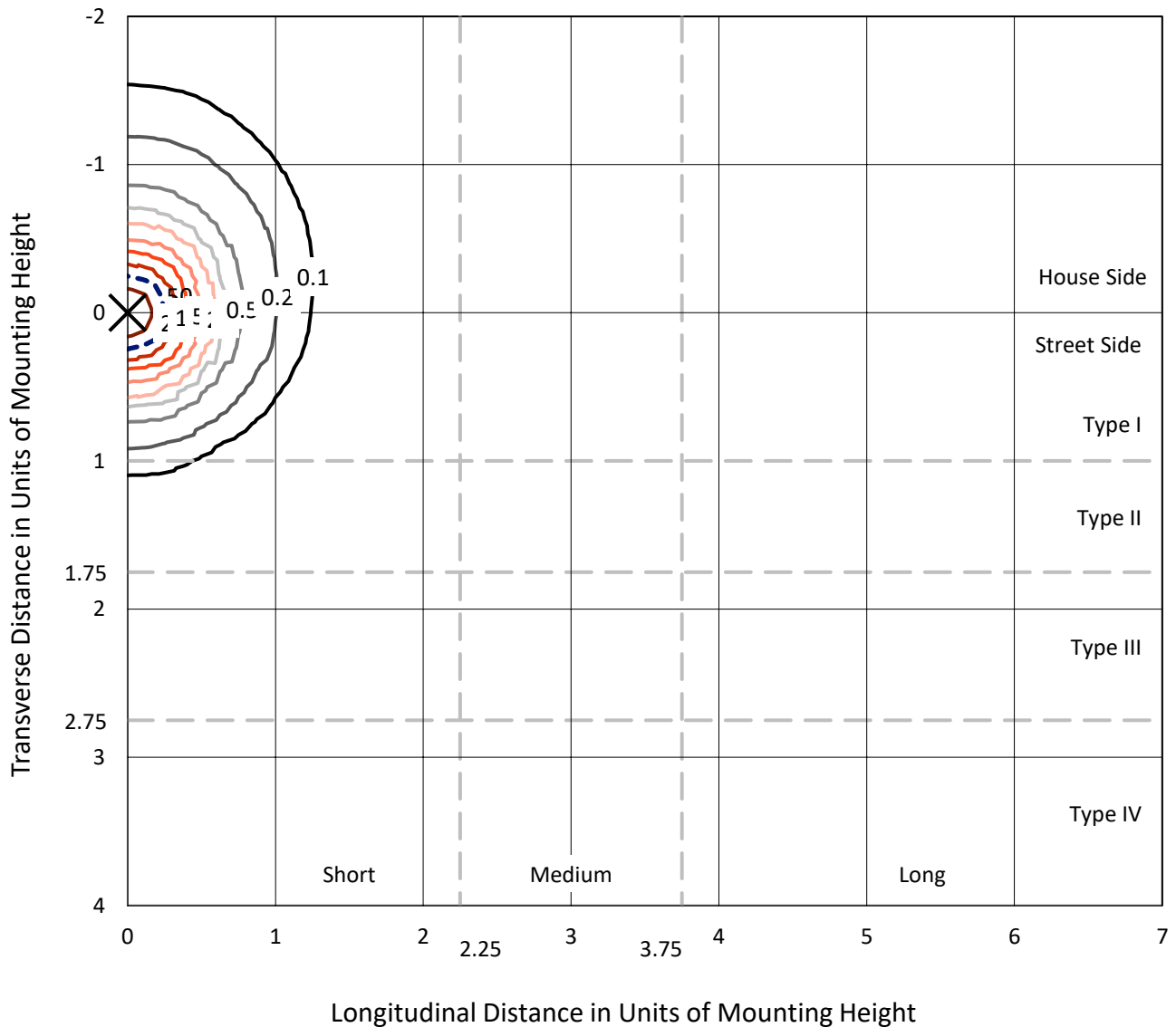
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637317
 CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

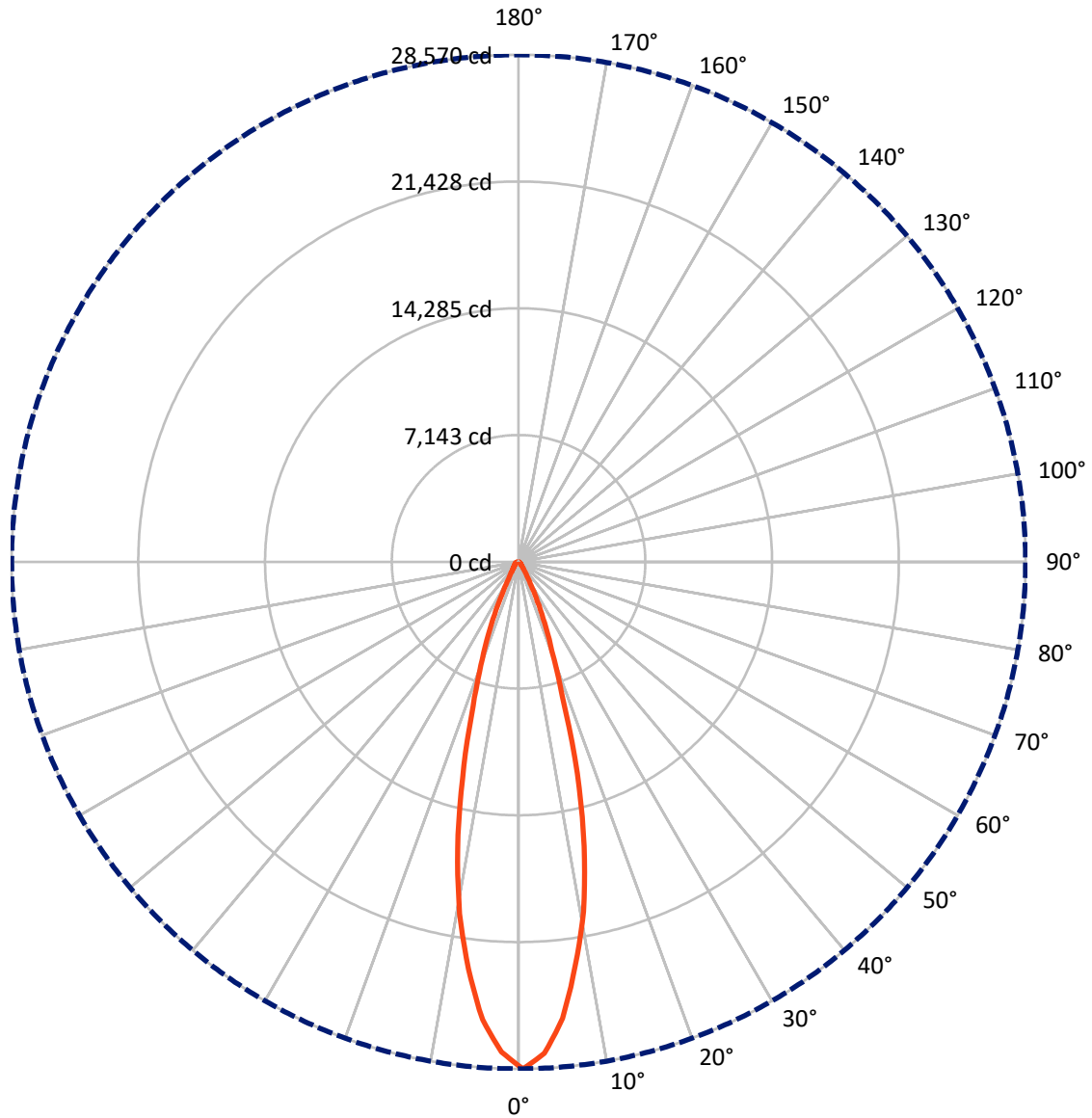
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.4 fc
 Type V - Short - N/A

REPORT NUMBER: P637317
CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637317
 CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4275.2	0.0	4275.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	3833.0	0.0	3833.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	8108.3	0.0	8108.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2305.9	28.4
10°-20°	3492.2	43.1
20°-30°	1473.7	18.2
30°-40°	384.4	4.7
40°-50°	194.4	2.4
50°-60°	127.1	1.6
60°-70°	76.1	0.9
70°-80°	40.0	0.5
80°-90°	14.5	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°	8108.3	100.0
0°-180°	8108.3	100.0

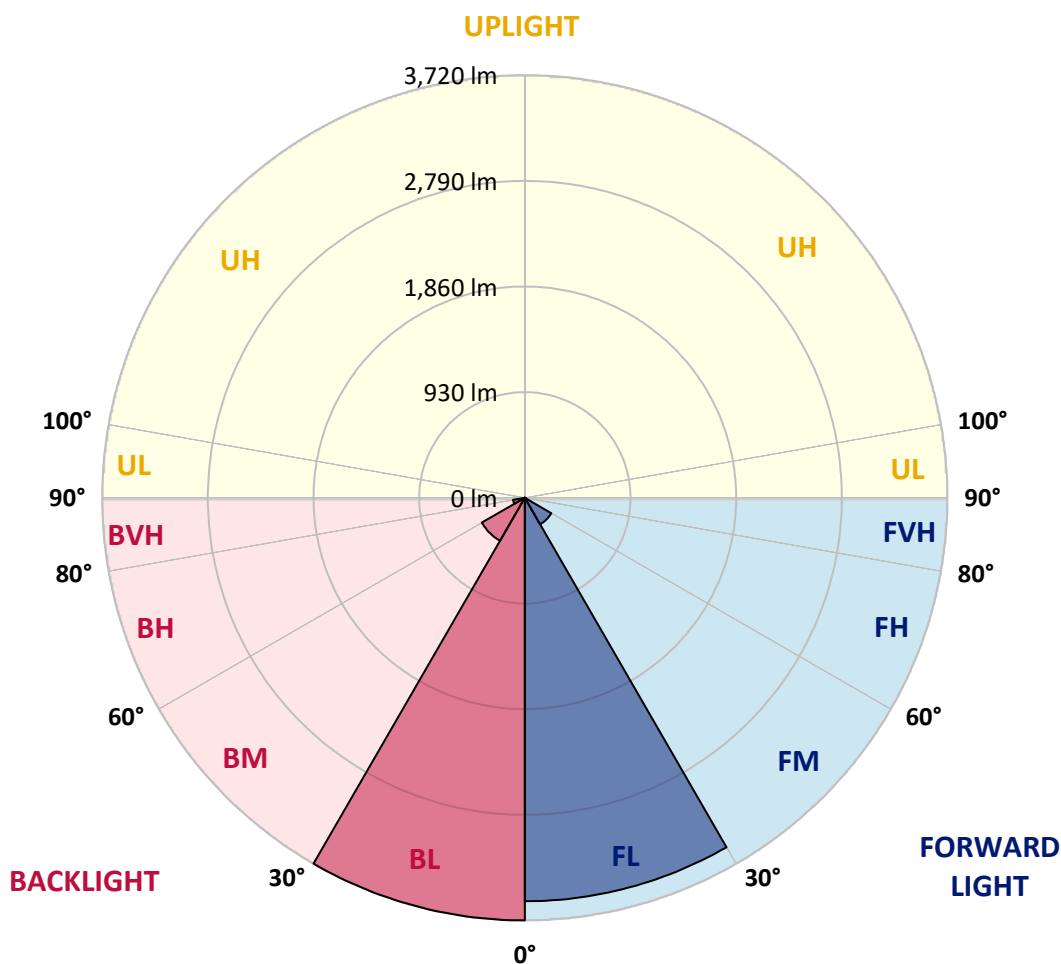


REPORT NUMBER: P637317
 CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3551.4	43.8			
FM (30°-60°)	269.0	3.3			
FH (60°-80°)	11.0	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	3720.4	45.9	B4/5000		
BM (30°-60°)	436.9	5.4	B1/1000		
BH (60°-80°)	105.2	1.3	B0/110		G0/660
BVH (80°-90°)	12.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





REPORT NUMBER: P637317
 CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0
2.5°	27737.8	27753.3	27695.9	27819.7	27723.2	27981.8	27853.4	28053.8	27986.4	28098.4
5°	25843.8	25818.3	25801.9	25994.0	25938.5	26216.2	26038.7	25980.4	26160.7	26127.9
7.5°	22983.7	23051.1	23012.8	23062.9	23091.1	23408.0	23508.2	23429.9	23432.6	23478.1
10°	20051.7	19952.4	19811.3	19905.1	20103.6	20242.0	20186.4	20301.2	20275.7	20384.0
12.5°	16444.0	16522.3	16443.1	16359.3	16706.2	16668.0	16764.5	16827.3	16669.8	17020.4
15°	12386.5	12427.5	12524.0	12517.6	12784.4	12838.1	12825.4	12891.9	12768.9	12827.2
17.5°	7957.5	8095.9	8355.4	8794.3	9287.8	9345.2	9330.6	9276.0	9216.8	9151.2
20°	5345.0	5330.5	5424.3	5552.7	6574.3	6844.8	6836.6	6665.4	6417.7	6370.3
22.5°	3744.3	3771.6	3758.8	3886.3	4097.6	4843.3	4751.4	4577.4	4496.4	4443.6
25°	2463.1	2453.1	2516.8	2555.1	2736.3	2827.3	3149.7	3085.0	2960.3	2973.9
27.5°	1501.5	1514.3	1538.0	1570.7	1699.1	1670.0	1853.9	1878.5	1838.4	1795.6
30°	921.5	930.6	949.7	973.4	1018.0	986.1	1037.1	1125.5	1110.9	1080.8
32.5°	625.6	626.5	640.1	649.2	643.8	613.7	630.1	713.9	715.7	713.0
35°	449.8	449.8	462.6	469.9	454.4	429.8	432.5	484.4	507.2	511.7
37.5°	310.5	311.4	333.3	355.1	337.8	331.4	320.5	355.1	391.5	397.0
40°	235.8	234.9	245.9	262.2	264.1	252.2	255.9	277.7	315.1	319.6
42.5°	191.2	192.1	197.6	195.8	196.7	212.2	217.6	227.6	262.2	270.4
45°	161.2	162.1	164.8	155.7	152.1	175.7	183.0	188.5	217.6	227.6
47.5°	132.9	134.8	137.5	127.5	125.7	141.1	153.9	159.3	184.8	195.8
50°	95.6	97.4	107.4	102.0	107.4	111.1	128.4	136.6	153.9	168.5
52.5°	69.2	71.0	73.8	74.7	88.3	90.1	102.9	115.6	123.8	140.2
55°	54.6	56.5	54.6	52.8	64.7	74.7	79.2	92.9	99.3	118.4
57.5°	31.0	32.8	35.5	41.0	42.8	57.4	61.9	73.8	79.2	97.4
60°	5.5	6.4	10.0	24.6	30.0	36.4	46.4	56.5	63.7	76.5
62.5°	0.9	0.9	1.8	5.5	17.3	25.5	33.7	40.1	46.4	58.3
65°	0.0	0.0	0.9	1.8	4.6	14.6	18.2	23.7	31.9	41.9
67.5°	0.0	0.0	0.9	1.8	2.7	5.5	8.2	14.6	18.2	28.2
70°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	6.4	10.9	17.3
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	5.5	5.5	10.9
75°	0.0	0.0	0.9	1.8	2.7	4.6	5.5	5.5	4.6	4.6
77.5°	0.0	0.0	0.9	1.8	3.6	5.5	6.4	5.5	3.6	3.6
80°	0.0	0.0	1.8	2.7	4.6	6.4	8.2	6.4	3.6	1.8
82.5°	0.0	0.0	1.8	3.6	4.6	7.3	10.0	8.2	3.6	1.8
85°	0.0	0.0	0.9	2.7	5.5	7.3	10.0	7.3	3.6	0.9
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	5.5	4.6	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637317
 CATALOG NUMBER: IFLD-S-SA2A-730-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
28570.0	0°	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0	28570.0
27886.2	2.5°	28046.5	28192.2	28222.2	28182.1	28240.4	28135.7	28055.6	27848.0	27723.2
26117.9	5°	26286.3	26264.5	26416.5	26466.6	26460.3	26380.1	26268.1	26142.5	26020.4
23389.8	7.5°	23535.5	23563.7	23702.1	23790.5	23745.8	23645.7	23568.3	23473.6	23391.6
20423.2	10°	20609.8	20415.9	20588.0	20588.0	20707.3	20424.1	20450.5	20211.9	20222.8
17014.0	12.5°	17072.3	17142.4	17170.6	17251.7	17112.3	16962.1	16778.2	16741.7	16627.9
12716.1	15°	12899.1	13099.5	12927.4	13221.5	13079.4	12922.8	12894.6	12612.3	12701.5
9223.2	17.5°	9177.6	9398.9	9468.1	9636.6	9507.3	9414.4	9296.9	9211.3	9205.0
6456.9	20°	6507.8	6730.0	6781.0	6983.2	6968.6	6939.5	6840.2	6731.8	6614.4
4395.3	22.5°	4461.8	4643.0	4812.4	5084.6	5080.1	4994.5	4984.5	4831.5	4834.2
2969.4	25°	3000.3	3132.4	3172.4	3451.1	3482.0	3472.9	3421.0	3279.0	3332.7
1813.9	27.5°	1815.7	1931.3	2067.0	2165.3	2258.2	2243.6	2191.7	2112.5	2077.9
1090.0	30°	1119.1	1171.0	1221.1	1339.4	1395.0	1424.1	1399.5	1325.8	1331.3
717.5	32.5°	733.0	776.7	813.1	887.8	916.9	970.7	960.7	945.2	927.0
516.3	35°	534.5	566.4	591.0	625.6	662.9	708.4	715.7	709.3	702.0
398.8	37.5°	407.9	440.7	468.9	483.5	512.7	548.2	568.2	567.3	561.8
325.1	40°	331.4	356.0	381.5	400.7	420.7	447.1	471.7	474.4	474.4
273.2	42.5°	276.8	297.8	323.3	343.3	357.9	382.4	407.9	409.8	407.9
231.3	45°	236.7	255.0	279.5	303.2	315.1	333.3	357.9	363.3	359.7
198.5	47.5°	205.8	222.2	243.1	268.6	281.4	297.8	320.5	326.9	326.0
171.2	50°	176.7	195.8	216.7	237.7	254.0	269.5	291.4	298.7	295.9
145.7	52.5°	155.7	173.0	191.2	214.0	233.1	246.8	264.1	276.8	273.2
122.9	55°	130.2	151.2	170.3	189.4	213.1	227.6	244.0	259.5	255.9
103.8	57.5°	112.9	130.2	152.1	169.4	193.0	210.3	226.7	243.1	242.2
84.7	60°	94.7	112.9	133.9	152.1	173.9	193.0	209.4	227.6	229.5
63.7	62.5°	74.7	96.5	114.7	135.7	157.5	178.5	193.0	211.3	214.0
48.3	65°	56.5	79.2	99.3	119.3	141.1	163.9	176.7	192.1	194.9
35.5	67.5°	41.9	61.0	84.7	102.9	125.7	147.5	159.3	172.1	176.7
21.9	70°	31.9	46.4	71.0	88.3	112.0	129.3	142.0	153.0	156.6
14.6	72.5°	20.0	36.4	57.4	75.6	96.5	112.0	121.1	127.5	132.9
8.2	75°	13.7	28.2	46.4	64.7	80.1	92.0	100.2	105.6	110.2
3.6	77.5°	8.2	21.9	38.2	53.7	63.7	72.8	81.0	84.7	87.4
2.7	80°	4.6	16.4	31.9	43.7	50.1	56.5	62.8	67.4	69.2
1.8	82.5°	2.7	12.7	25.5	33.7	36.4	42.8	49.2	51.9	51.9
0.9	85°	1.8	9.1	17.3	24.6	26.4	31.0	32.8	34.6	36.4
0.9	87.5°	1.8	5.5	10.9	13.7	14.6	16.4	17.3	19.1	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>28570.0</u>
27631.2
25883.9
23113.9
20116.3
16524.1
12612.3
9035.6
6563.4
4781.4
3248.0
2047.9
1307.6
920.6
699.3
559.1
468.9
406.1
359.7
324.2
294.1
272.3
257.7
243.1
230.4
215.8
197.6
178.5
158.4
132.0
109.3
86.5
67.4
51.0
35.5
20.0
0.0

(END OF REPORT)