

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: P637289

Luminaire Tested: **IFLD-S-SA2B-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9209.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

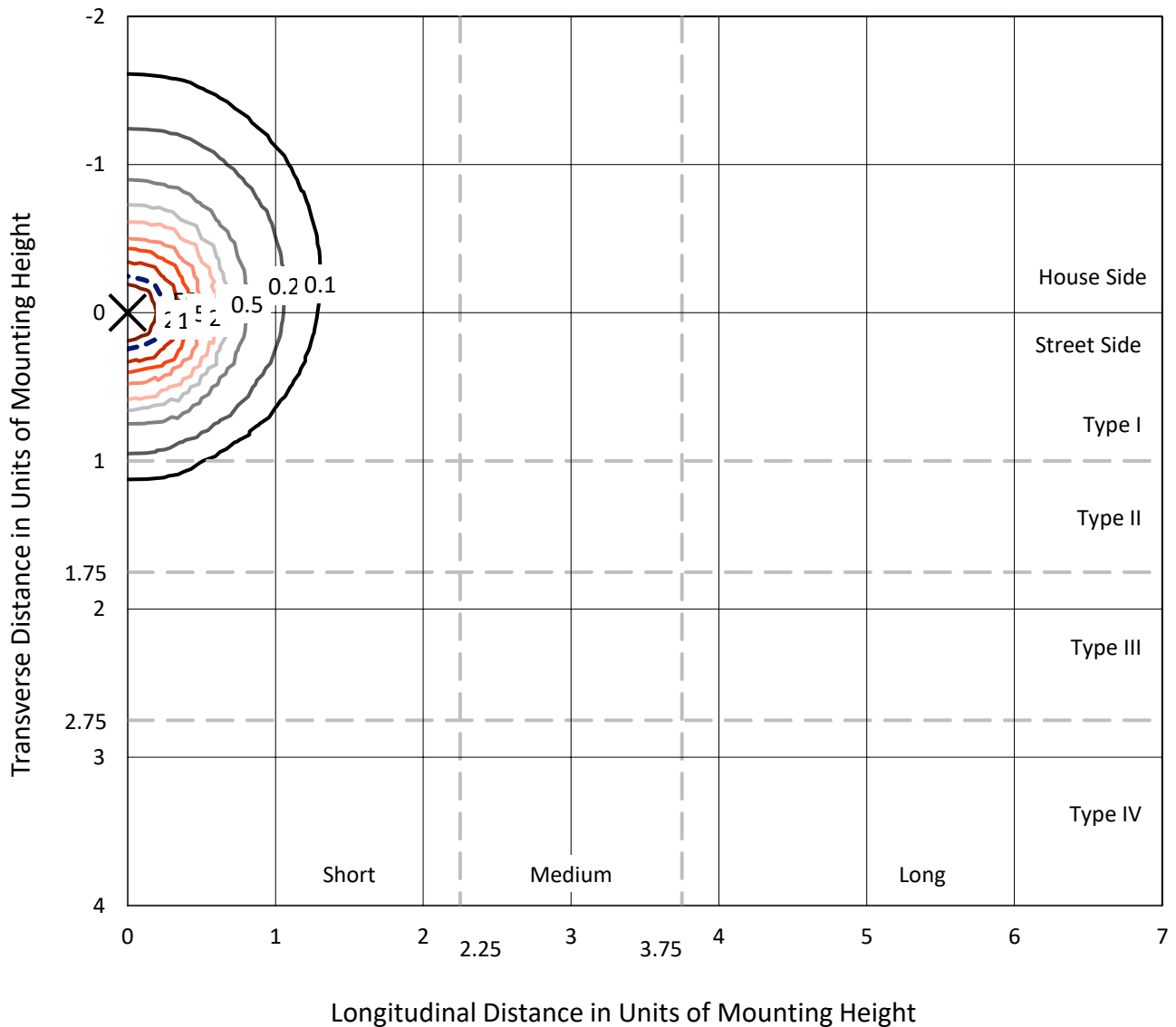
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

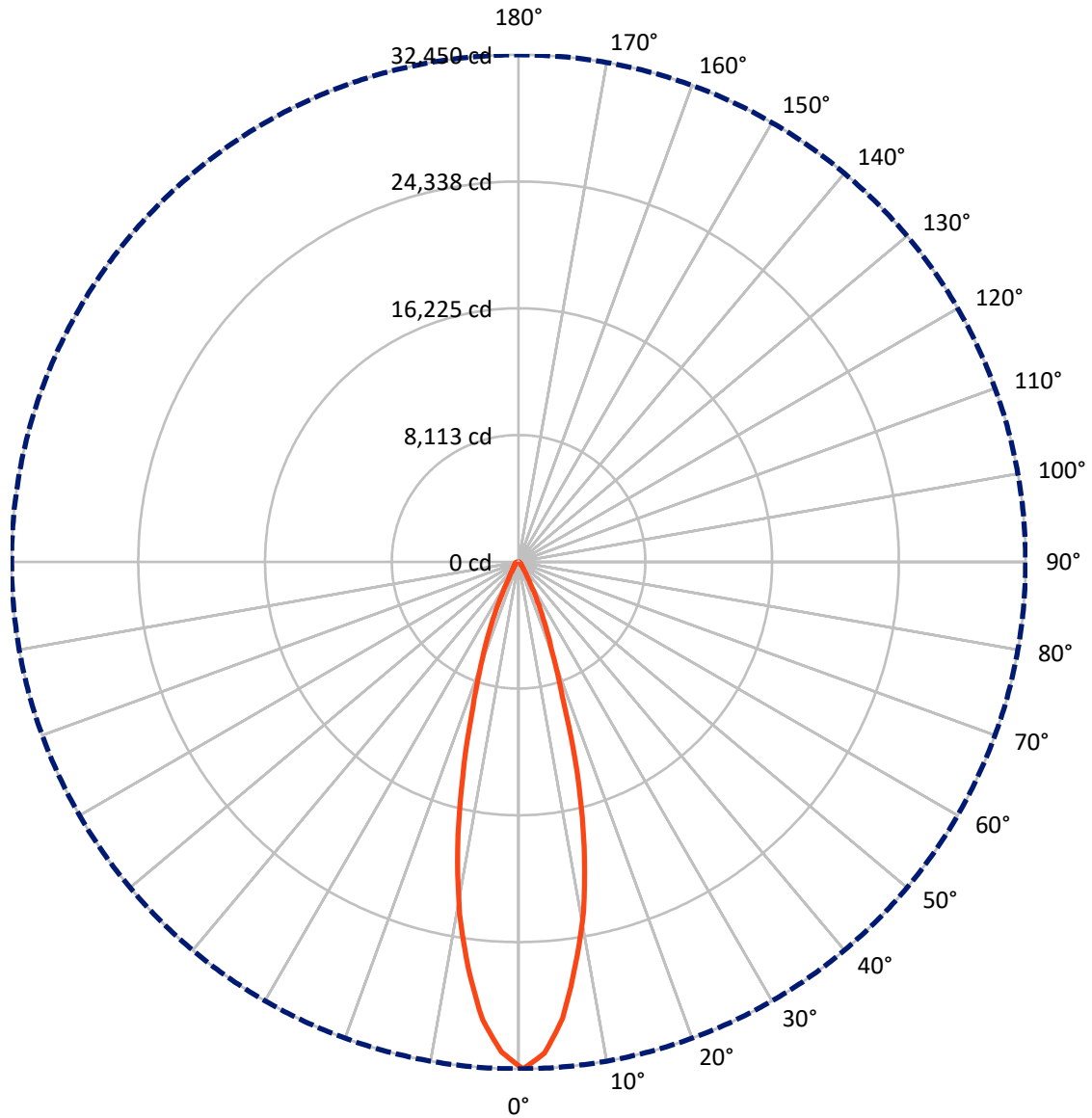
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.1 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	4855.9	0.0	4855.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4353.6	0.0	4353.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	9209.5	0.0	9209.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2619.0	28.4
10°-20°	3966.5	43.1
20°-30°	1673.9	18.2
30°-40°	436.6	4.7
40°-50°	220.8	2.4
50°-60°	144.3	1.6
60°-70°	86.5	0.9
70°-80°	45.5	0.5
80°-90°	16.4	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°	9209.5	100.0
0°-180°	9209.5	100.0

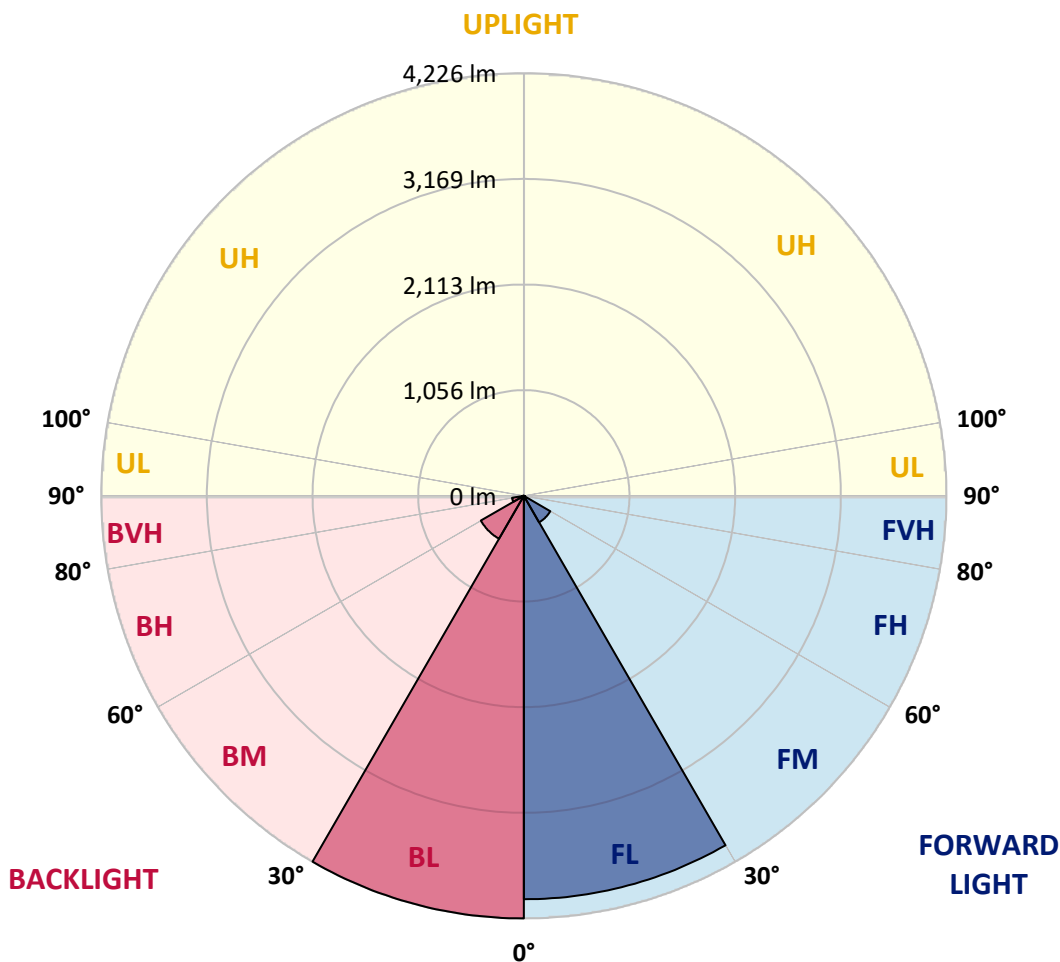


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4033.7	43.8			
FM (30°-60°)	305.5	3.3			
FH (60°-80°)	12.4	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4225.7	45.9	B4/5000		
BM (30°-60°)	496.2	5.4	B1/1000		
BH (60°-80°)	119.5	1.3	B1/500		G0/660
BVH (80°-90°)	14.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4
2.5°	31505.1	31522.7	31457.6	31598.2	31488.6	31782.3	31636.5	31864.0	31787.5	31914.7
5°	29353.9	29325.0	29306.3	29524.6	29461.5	29776.9	29575.2	29509.0	29713.8	29676.6
7.5°	26105.4	26181.9	26138.4	26195.3	26227.4	26587.3	26701.1	26612.1	26615.2	26666.9
10°	22775.1	22662.4	22502.0	22608.6	22834.0	22991.2	22928.2	23058.5	23029.5	23152.6
12.5°	18677.4	18766.4	18676.4	18581.2	18975.3	18931.8	19041.5	19112.8	18933.9	19332.1
15°	14068.8	14115.4	14225.0	14217.8	14520.8	14581.8	14567.3	14642.8	14503.2	14569.4
17.5°	9038.3	9195.5	9490.2	9988.7	10549.3	10614.4	10597.9	10535.8	10468.6	10394.2
20°	6071.0	6054.5	6161.0	6306.8	7467.2	7774.4	7765.1	7570.7	7289.4	7235.6
22.5°	4252.8	4283.8	4269.4	4414.2	4654.1	5501.1	5396.7	5199.1	5107.1	5047.1
25°	2797.6	2786.3	2858.7	2902.1	3107.9	3211.3	3577.4	3504.0	3362.3	3377.8
27.5°	1705.5	1719.9	1746.8	1784.1	1929.9	1896.8	2105.7	2133.6	2088.1	2039.5
30°	1046.7	1057.0	1078.7	1105.6	1156.3	1120.1	1178.0	1278.3	1261.8	1227.6
32.5°	710.5	711.6	727.1	737.4	731.2	697.1	715.7	810.8	812.9	809.8
35°	510.9	510.9	525.4	533.7	516.1	488.2	491.3	550.2	576.1	581.2
37.5°	352.7	353.7	378.5	403.4	383.7	376.5	364.1	403.4	444.7	450.9
40°	267.9	266.8	279.2	297.9	299.9	286.5	290.6	315.4	357.8	363.0
42.5°	217.2	218.2	224.4	222.4	223.4	241.0	247.2	258.6	297.9	307.2
45°	183.1	184.1	187.2	176.9	172.7	199.6	207.9	214.1	247.2	258.6
47.5°	151.0	153.1	156.2	144.8	142.7	160.3	174.8	181.0	210.0	222.4
50°	108.6	110.7	122.0	115.8	122.0	126.2	145.8	155.1	174.8	191.3
52.5°	78.6	80.7	83.8	84.8	100.3	102.4	116.9	131.3	140.7	159.3
55°	62.1	64.1	62.1	60.0	73.4	84.8	90.0	105.5	112.7	134.5
57.5°	35.2	37.2	40.3	46.5	48.6	65.2	70.3	83.8	90.0	110.7
60°	6.2	7.2	11.4	27.9	34.1	41.4	52.7	64.1	72.4	86.9
62.5°	1.0	1.0	2.1	6.2	19.7	29.0	38.3	45.5	52.7	66.2
65°	0.0	0.0	1.0	2.1	5.2	16.5	20.7	26.9	36.2	47.6
67.5°	0.0	0.0	1.0	2.1	3.1	6.2	9.3	16.5	20.7	32.1
70°	0.0	0.0	1.0	2.1	3.1	4.1	5.2	7.2	12.4	19.7
72.5°	0.0	0.0	1.0	2.1	3.1	4.1	5.2	6.2	6.2	12.4
75°	0.0	0.0	1.0	2.1	3.1	5.2	6.2	6.2	5.2	5.2
77.5°	0.0	0.0	1.0	2.1	4.1	6.2	7.2	6.2	4.1	4.1
80°	0.0	0.0	2.1	3.1	5.2	7.2	9.3	7.2	4.1	2.1
82.5°	0.0	0.0	2.1	4.1	5.2	8.3	11.4	9.3	4.1	2.1
85°	0.0	0.0	1.0	3.1	6.2	8.3	11.4	8.3	4.1	1.0
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	6.2	5.2	2.1	1.0
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°
32450.4	0°	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4	32450.4
31673.7	2.5°	31855.7	32021.2	32055.4	32009.9	32076.0	31957.1	31866.1	31630.3	31488.6
29665.2	5°	29856.6	29831.7	30004.5	30061.3	30054.1	29963.1	29835.9	29693.1	29554.6
26566.6	7.5°	26732.1	26764.2	26921.4	27021.7	26971.0	26857.2	26769.3	26661.8	26568.7
23197.1	10°	23409.1	23188.8	23384.3	23384.3	23519.7	23198.1	23228.1	22957.1	22969.5
19324.8	12.5°	19391.0	19470.7	19502.7	19594.8	19436.5	19265.9	19057.0	19015.6	18886.3
14443.2	15°	14651.1	14878.6	14683.2	15017.2	14855.9	14678.0	14645.9	14325.3	14426.7
10475.9	17.5°	10424.1	10675.5	10754.1	10945.4	10798.5	10693.0	10559.6	10462.4	10455.2
7333.8	20°	7391.7	7644.1	7702.0	7931.6	7915.1	7882.0	7769.2	7646.2	7512.7
4992.3	22.5°	5067.8	5273.6	5466.0	5775.2	5770.0	5672.8	5661.5	5487.7	5490.8
3372.7	25°	3407.8	3557.8	3603.3	3919.8	3954.9	3944.6	3885.7	3724.3	3785.3
2060.2	27.5°	2062.3	2193.6	2347.7	2459.4	2564.9	2548.4	2489.4	2399.4	2360.1
1238.0	30°	1271.1	1330.0	1386.9	1521.4	1584.5	1617.6	1589.6	1505.9	1512.1
815.0	32.5°	832.6	882.2	923.6	1008.4	1041.5	1102.5	1091.1	1073.5	1052.9
586.4	35°	607.1	643.3	671.2	710.5	752.9	804.6	812.9	805.7	797.4
453.0	37.5°	463.3	500.6	532.6	549.2	582.3	622.6	645.4	644.3	638.1
369.2	40°	376.5	404.4	433.3	455.1	477.8	507.8	535.7	538.8	538.8
310.3	42.5°	314.4	338.2	367.2	389.9	406.5	434.4	463.3	465.4	463.3
262.7	45°	268.9	289.6	317.5	344.4	357.8	378.5	406.5	412.7	408.5
225.5	47.5°	233.7	252.4	276.1	305.1	319.6	338.2	364.1	371.3	370.3
194.4	50°	200.6	222.4	246.2	269.9	288.6	306.1	331.0	339.2	336.1
165.5	52.5°	176.9	196.5	217.2	243.0	264.8	280.3	299.9	314.4	310.3
139.6	55°	147.9	171.7	193.4	215.1	242.0	258.6	277.2	294.8	290.6
117.9	57.5°	128.2	147.9	172.7	192.4	219.3	238.9	257.5	276.1	275.1
96.2	60°	107.6	128.2	152.0	172.7	197.5	219.3	237.9	258.6	260.6
72.4	62.5°	84.8	109.6	130.3	154.1	178.9	202.7	219.3	239.9	243.0
54.8	65°	64.1	90.0	112.7	135.5	160.3	186.2	200.6	218.2	221.3
40.3	67.5°	47.6	69.3	96.2	116.9	142.7	167.5	181.0	195.5	200.6
24.8	70°	36.2	52.7	80.7	100.3	127.2	146.9	161.3	173.8	177.9
16.5	72.5°	22.8	41.4	65.2	85.8	109.6	127.2	137.6	144.8	151.0
9.3	75°	15.5	32.1	52.7	73.4	91.0	104.5	113.8	120.0	125.1
4.1	77.5°	9.3	24.8	43.4	61.0	72.4	82.7	92.0	96.2	99.3
3.1	80°	5.2	18.6	36.2	49.6	56.9	64.1	71.4	76.5	78.6
2.1	82.5°	3.1	14.5	29.0	38.3	41.4	48.6	55.8	59.0	59.0
1.0	85°	2.1	10.3	19.7	27.9	30.0	35.2	37.2	39.3	41.4
1.0	87.5°	2.1	6.2	12.4	15.5	16.5	18.6	19.7	21.7	23.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>32450.4</u>
31384.1
29399.4
26253.2
22848.5
18768.4
14325.3
10262.8
7454.8
5430.8
3689.1
2326.0
1485.2
1045.6
794.3
635.0
532.6
461.3
408.5
368.2
334.1
309.2
292.7
276.1
261.7
245.1
224.4
202.7
180.0
150.0
124.1
98.3
76.5
57.9
40.3
22.8
0.0

(END OF REPORT)