

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: P637303

Luminaire Tested: **IFLD-M-SA4A-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637303
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14895.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

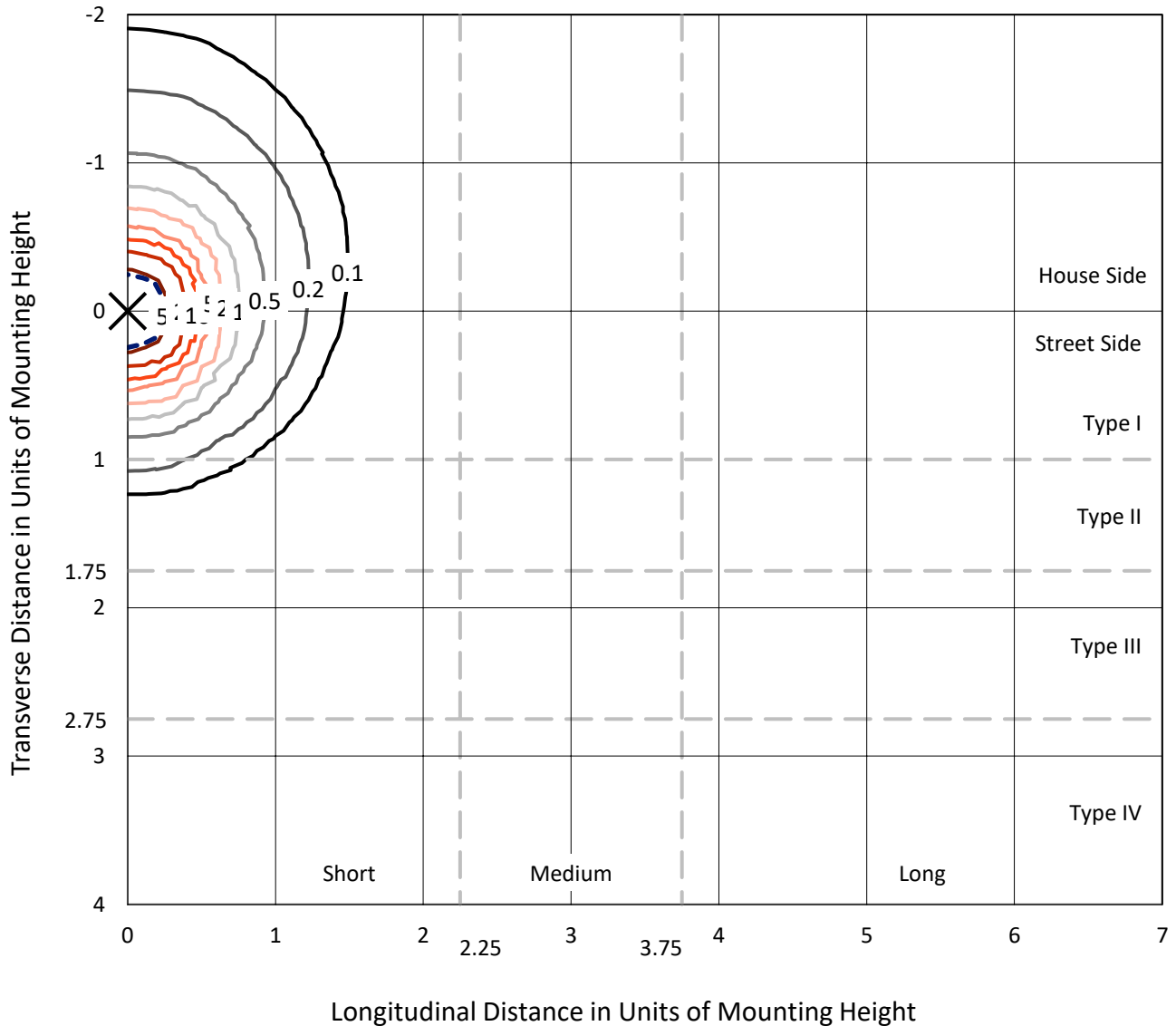
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

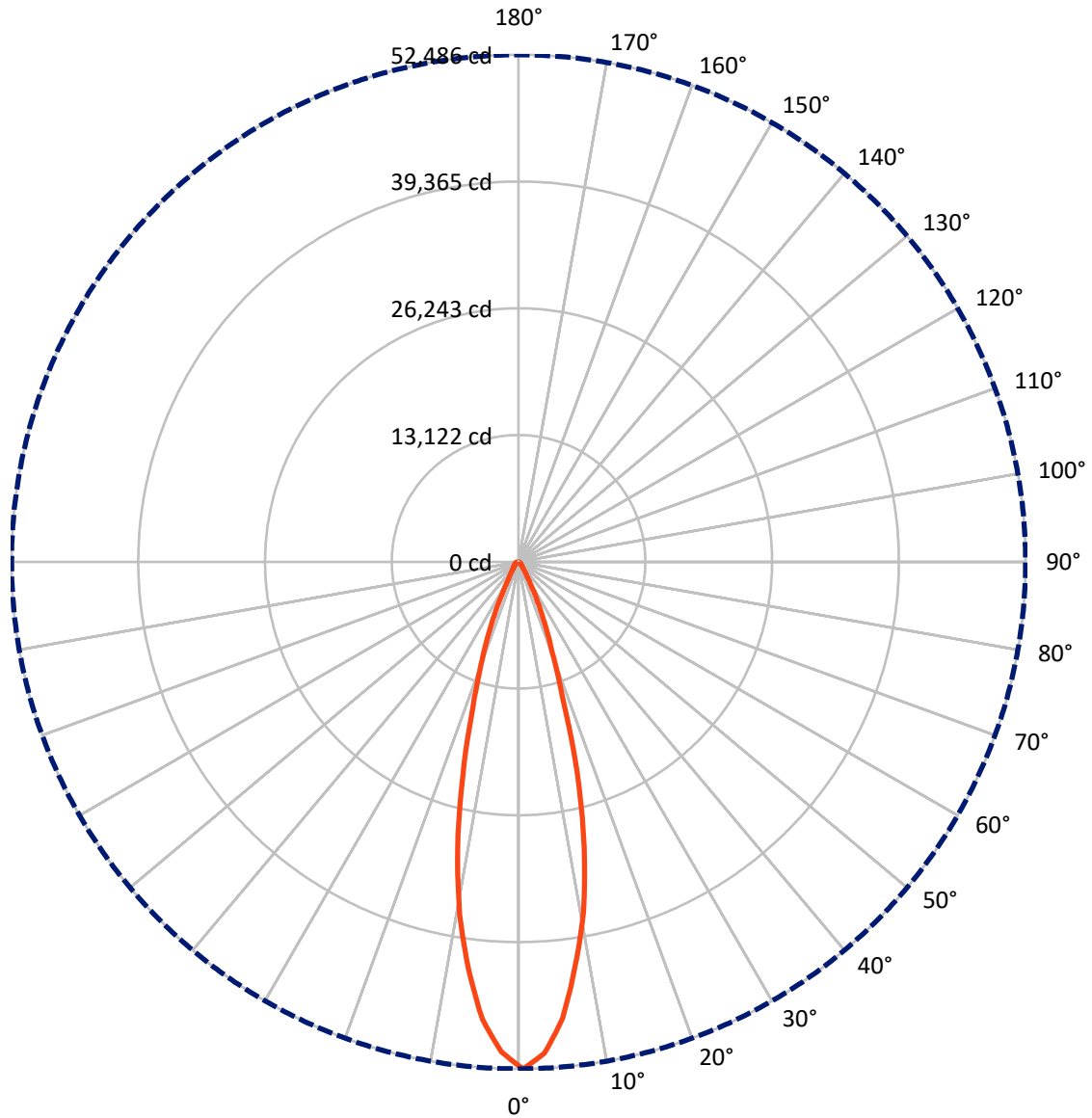
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 131.2 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	7854.0	0.0	7854.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7041.7	0.0	7041.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	14895.7	0.0	14895.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4236.1	28.4
10°-20°	6415.5	43.1
20°-30°	2707.4	18.2
30°-40°	706.1	4.7
40°-50°	357.1	2.4
50°-60°	233.4	1.6
60°-70°	139.9	0.9
70°-80°	73.6	0.5
80°-90°	26.6	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°	14895.7	100.0
0°-180°	14895.7	100.0

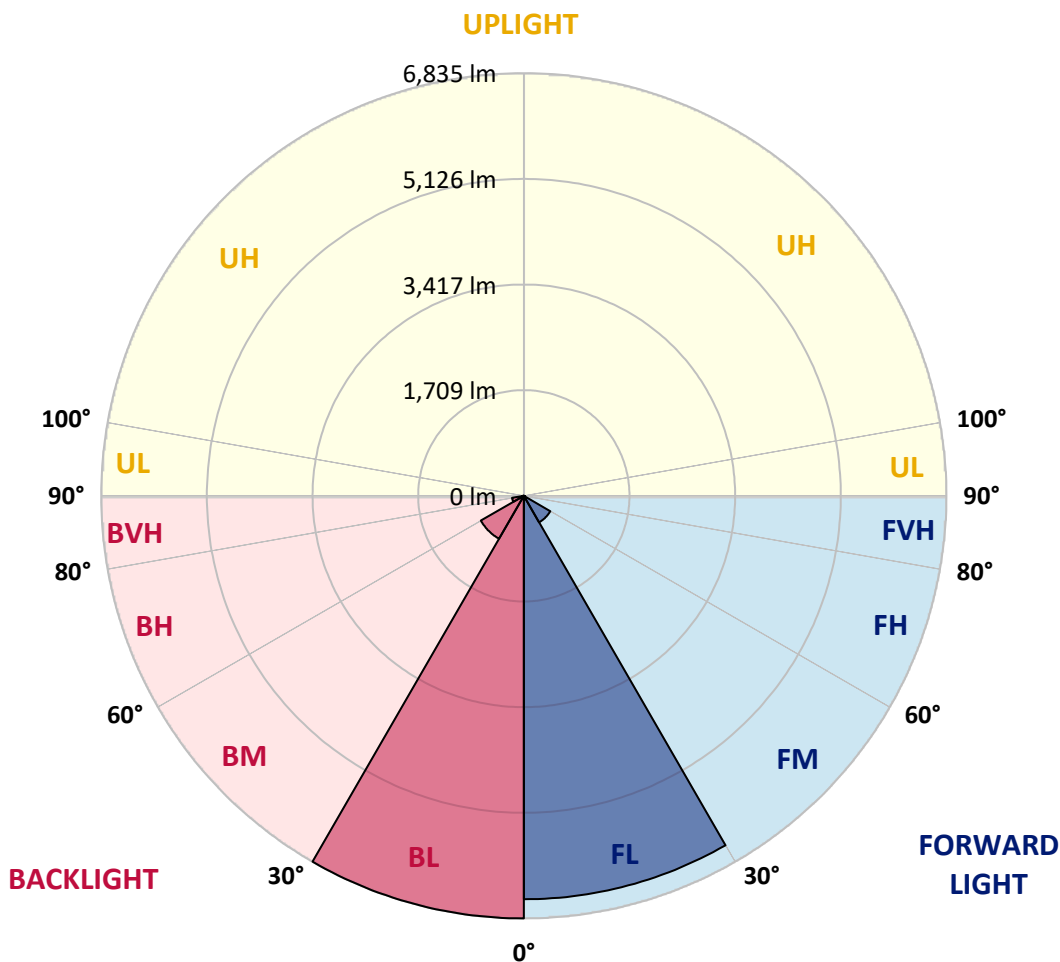


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6524.2	43.8			
FM (30°-60°)	494.1	3.3			
FH (60°-80°)	20.1	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	6834.8	45.9	B5		
BM (30°-60°)	802.6	5.4	B1/1000		
BH (60°-80°)	193.3	1.3	B1/500		G0/660
BVH (80°-90°)	23.3	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°	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1
2.5°	50957.1	50985.6	50880.2	51107.7	50930.4	51405.5	51169.6	51537.6	51413.8	51619.6
5°	47477.7	47430.9	47400.8	47753.7	47651.7	48161.9	47835.7	47728.6	48059.8	47999.6
7.5°	42223.4	42347.2	42276.9	42368.9	42420.8	43002.9	43186.9	43043.1	43048.1	43131.7
10°	36837.0	36654.6	36395.3	36567.6	36932.3	37186.6	37084.5	37295.3	37248.5	37447.5
12.5°	30209.3	30353.1	30207.6	30053.7	30691.0	30620.8	30798.1	30913.5	30624.1	31268.2
15°	22755.2	22830.5	23007.8	22996.1	23486.3	23585.0	23561.5	23683.6	23457.8	23564.9
17.5°	14618.7	14873.0	15349.7	16156.0	17062.7	17168.1	17141.3	17040.9	16932.2	16811.7
20°	9819.4	9792.6	9964.9	10200.8	12077.7	12574.5	12559.5	12245.0	11790.0	11703.0
22.5°	6878.6	6928.8	6905.4	7139.6	7527.6	8897.7	8728.7	8409.2	8260.3	8163.3
25°	4525.0	4506.6	4623.6	4693.9	5026.8	5194.1	5786.3	5667.5	5438.3	5463.4
27.5°	2758.5	2781.9	2825.4	2885.6	3121.5	3067.9	3405.8	3451.0	3377.4	3298.8
30°	1692.9	1709.6	1744.7	1788.2	1870.2	1811.7	1905.3	2067.6	2040.8	1985.6
32.5°	1149.2	1150.9	1176.0	1192.7	1182.7	1127.5	1157.6	1311.5	1314.8	1309.8
35°	826.4	826.4	849.8	863.2	834.7	789.6	794.6	889.9	931.8	940.1
37.5°	570.4	572.1	612.2	652.4	620.6	608.9	588.8	652.4	719.3	729.3
40°	433.3	431.6	451.7	481.8	485.1	463.4	470.1	510.2	578.8	587.2
42.5°	351.3	353.0	363.0	359.7	361.3	389.8	399.8	418.2	481.8	496.8
45°	296.1	297.8	302.8	286.1	279.4	322.9	336.2	346.3	399.8	418.2
47.5°	244.2	247.6	252.6	234.2	230.8	259.3	282.7	292.7	339.6	359.7
50°	175.6	179.0	197.4	187.4	197.4	204.1	235.9	250.9	282.7	309.5
52.5°	127.1	130.5	135.5	137.2	162.3	165.6	189.0	212.4	227.5	257.6
55°	100.4	103.7	100.4	97.0	118.8	137.2	145.5	170.6	182.3	217.5
57.5°	56.9	60.2	65.2	75.3	78.6	105.4	113.8	135.5	145.5	179.0
60°	10.0	11.7	18.4	45.2	55.2	66.9	85.3	103.7	117.1	140.5
62.5°	1.7	1.7	3.3	10.0	31.8	46.8	61.9	73.6	85.3	107.1
65°	0.0	0.0	1.7	3.3	8.4	26.8	33.5	43.5	58.5	76.9
67.5°	0.0	0.0	1.7	3.3	5.0	10.0	15.1	26.8	33.5	51.9
70°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	11.7	20.1	31.8
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	10.0	10.0	20.1
75°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	10.0	8.4	8.4
77.5°	0.0	0.0	1.7	3.3	6.7	10.0	11.7	10.0	6.7	6.7
80°	0.0	0.0	3.3	5.0	8.4	11.7	15.1	11.7	6.7	3.3
82.5°	0.0	0.0	3.3	6.7	8.4	13.4	18.4	15.1	6.7	3.3
85°	0.0	0.0	1.7	5.0	10.0	13.4	18.4	13.4	6.7	1.7
87.5°	0.0	0.0	1.7	1.7	3.3	5.0	10.0	8.4	3.3	1.7
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°
52486.1	0°	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1	52486.1
51229.8	2.5°	51524.2	51791.9	51847.1	51773.5	51880.5	51688.2	51541.0	51159.6	50930.4
47981.2	5°	48290.7	48250.5	48529.9	48621.9	48610.2	48463.0	48257.2	48026.4	47802.2
42969.5	7.5°	43237.1	43289.0	43543.3	43705.5	43623.5	43439.5	43297.3	43123.4	42972.8
37519.5	10°	37862.4	37506.1	37822.2	37822.2	38041.4	37521.1	37569.6	37131.4	37151.4
31256.5	12.5°	31363.5	31492.3	31544.2	31693.1	31437.1	31161.1	30823.2	30756.3	30547.2
23360.8	15°	23697.0	24065.0	23748.9	24289.2	24028.2	23740.5	23688.7	23170.1	23334.0
16943.9	17.5°	16860.3	17266.7	17393.9	17703.4	17465.8	17295.2	17079.4	16922.1	16910.4
11861.9	20°	11955.6	12363.7	12457.4	12828.8	12802.0	12748.5	12566.2	12367.1	12151.3
8074.7	22.5°	8196.8	8529.7	8840.8	9341.0	9332.6	9175.4	9157.0	8875.9	8880.9
5455.0	25°	5511.9	5754.5	5828.1	6340.0	6396.8	6380.1	6284.7	6023.8	6122.5
3332.2	27.5°	3335.6	3548.0	3797.3	3977.9	4148.6	4121.8	4026.5	3880.9	3817.4
2002.4	30°	2055.9	2151.2	2243.2	2460.7	2562.7	2616.3	2571.1	2435.6	2445.6
1318.2	32.5°	1346.6	1426.9	1493.8	1631.0	1684.5	1783.2	1764.8	1736.4	1702.9
948.5	35°	981.9	1040.5	1085.7	1149.2	1217.8	1301.4	1314.8	1303.1	1289.7
732.7	37.5°	749.4	809.6	861.5	888.3	941.8	1007.0	1043.8	1042.2	1032.1
597.2	40°	608.9	654.1	700.9	736.0	772.8	821.3	866.5	871.5	871.5
501.8	42.5°	508.5	547.0	593.8	630.6	657.4	702.6	749.4	752.8	749.4
424.9	45°	434.9	468.4	513.6	557.0	578.8	612.2	657.4	667.5	660.8
364.7	47.5°	378.1	408.2	446.6	493.5	516.9	547.0	588.8	600.5	598.9
314.5	50°	324.5	359.7	398.1	436.6	466.7	495.2	535.3	548.7	543.7
267.6	52.5°	286.1	317.8	351.3	393.1	428.2	453.3	485.1	508.5	501.8
225.8	55°	239.2	277.7	312.8	347.9	391.4	418.2	448.3	476.8	470.1
190.7	57.5°	207.4	239.2	279.4	311.1	354.6	386.4	416.5	446.6	445.0
155.6	60°	174.0	207.4	245.9	279.4	319.5	354.6	384.7	418.2	421.5
117.1	62.5°	137.2	177.3	210.8	249.2	289.4	327.9	354.6	388.1	393.1
88.7	65°	103.7	145.5	182.3	219.1	259.3	301.1	324.5	353.0	358.0
65.2	67.5°	76.9	112.1	155.6	189.0	230.8	271.0	292.7	316.2	324.5
40.1	70°	58.5	85.3	130.5	162.3	205.8	237.5	261.0	281.0	287.7
26.8	72.5°	36.8	66.9	105.4	138.8	177.3	205.8	222.5	234.2	244.2
15.1	75°	25.1	51.9	85.3	118.8	147.2	169.0	184.0	194.0	202.4
6.7	77.5°	15.1	40.1	70.3	98.7	117.1	133.8	148.9	155.6	160.6
5.0	80°	8.4	30.1	58.5	80.3	92.0	103.7	115.4	123.8	127.1
3.3	82.5°	5.0	23.4	46.8	61.9	66.9	78.6	90.3	95.4	95.4
1.7	85°	3.3	16.7	31.8	45.2	48.5	56.9	60.2	63.6	66.9
1.7	87.5°	3.3	10.0	20.1	25.1	26.8	30.1	31.8	35.1	38.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
52486.1
50761.4
47551.3
42462.6
36955.7
30356.5
23170.1
16599.3
12057.6
8783.9
5966.9
3762.2
2402.2
1691.2
1284.7
1027.1
861.5
746.1
660.8
595.5
540.3
500.2
473.4
446.6
423.2
396.5
363.0
327.9
291.1
242.6
200.7
158.9
123.8
93.7
65.2
36.8
0.0

(END OF REPORT)