

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: P637323

Luminaire Tested: **IFLD-S-SA3B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637323
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14944.3 lumens
Efficiency: N/A
Efficacy: 122.1 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

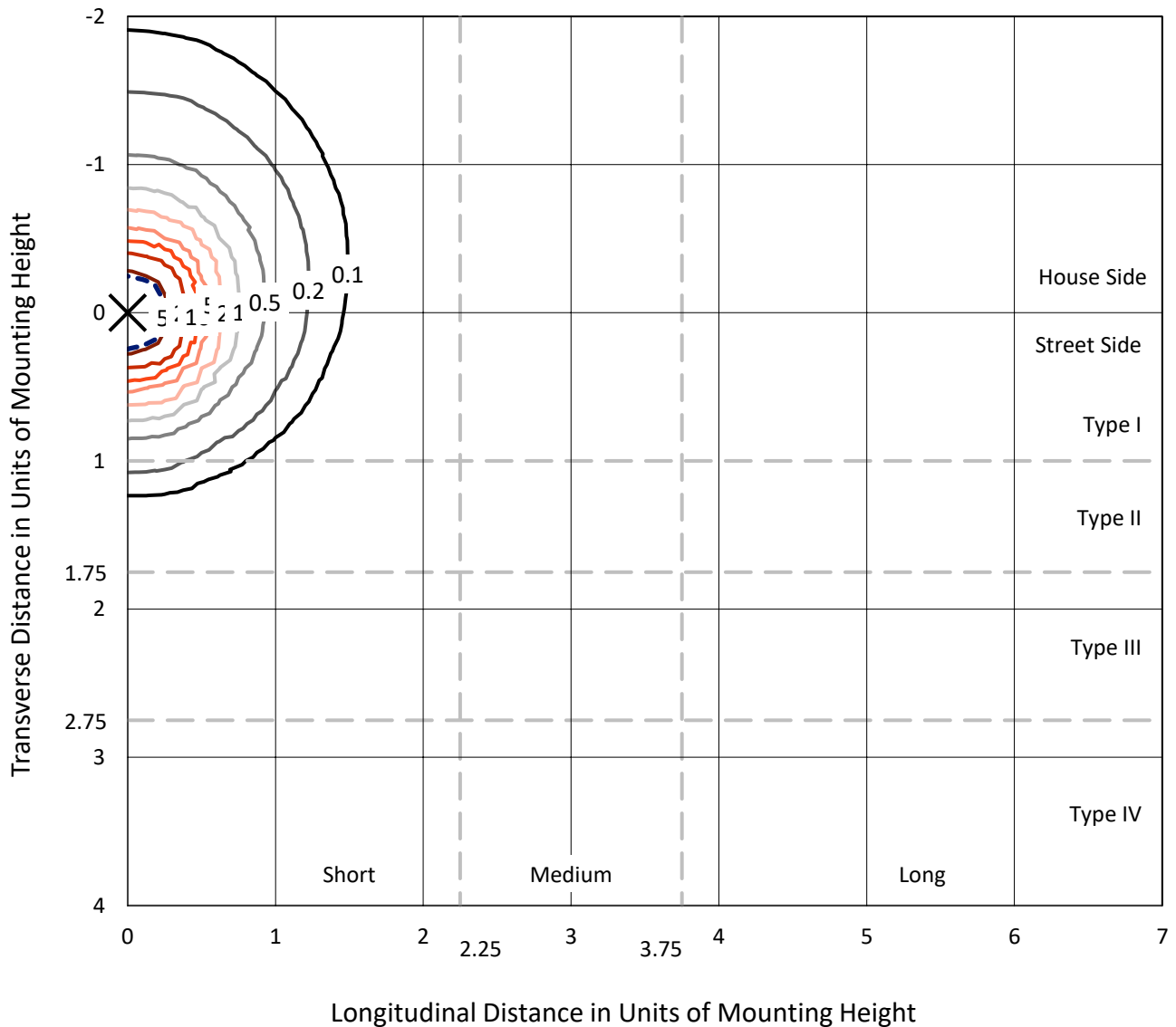
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

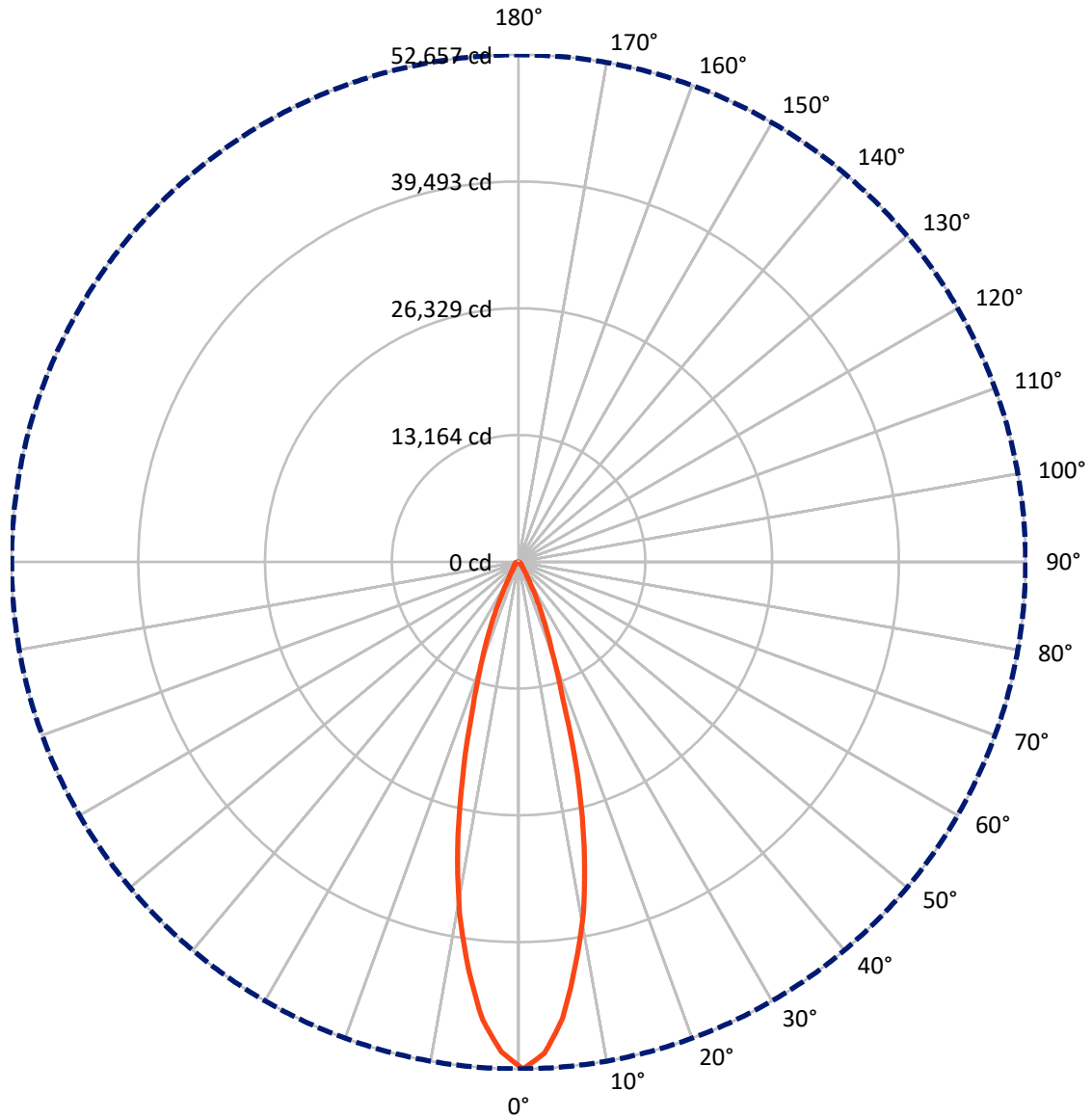
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 131.6 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	7879.7	0.0	7879.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7064.7	0.0	7064.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	14944.3	0.0	14944.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4249.9	28.4
10°-20°	6436.5	43.1
20°-30°	2716.2	18.2
30°-40°	708.4	4.7
40°-50°	358.3	2.4
50°-60°	234.2	1.6
60°-70°	140.3	0.9
70°-80°	73.8	0.5
80°-90°	26.7	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°	14944.3	100.0
0°-180°	14944.3	100.0

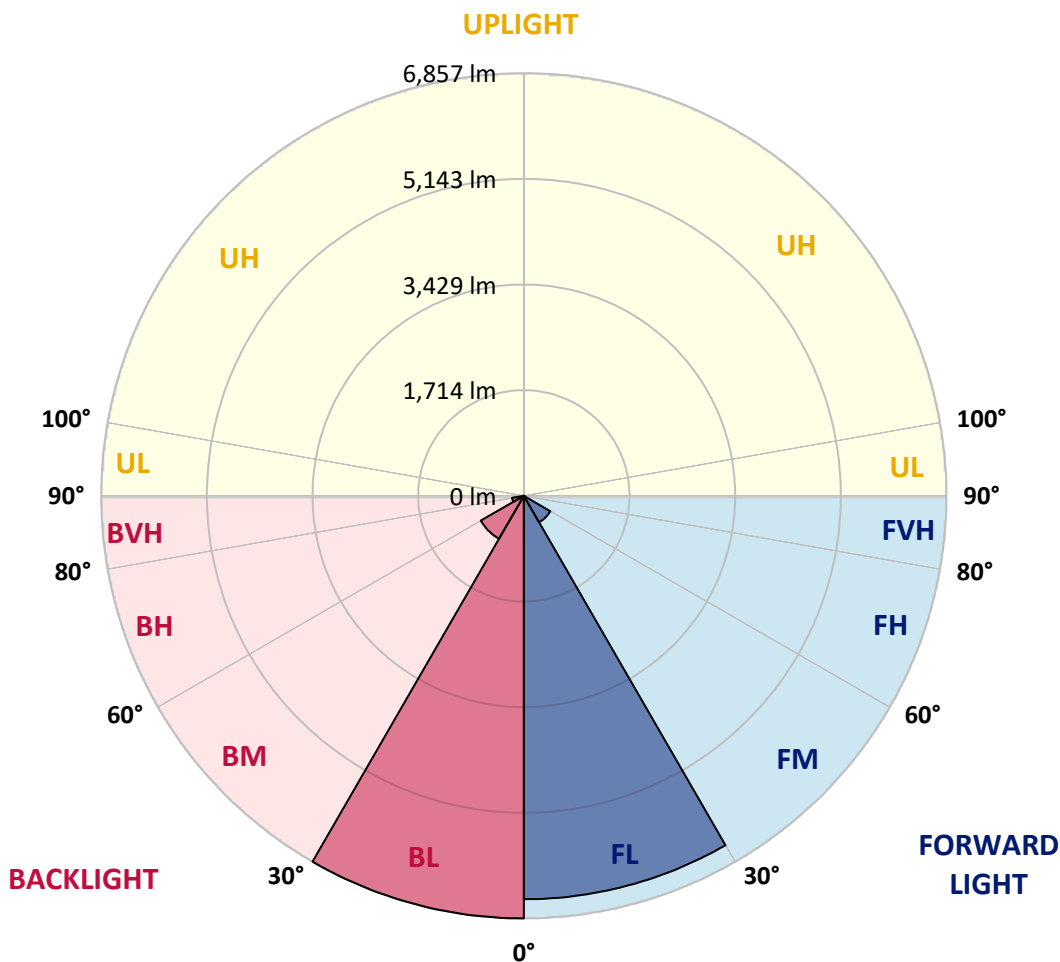


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6545.5	43.8			
FM (30°-60°)	495.7	3.3			
FH (60°-80°)	20.2	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	6857.1	45.9	B5		
BM (30°-60°)	805.2	5.4	B1/1000		
BH (60°-80°)	193.9	1.3	B1/500		G0/660
BVH (80°-90°)	23.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3
2.5°	51123.4	51151.9	51046.2	51274.4	51096.5	51573.2	51336.5	51705.8	51581.6	51788.0
5°	47632.6	47585.6	47555.4	47909.5	47807.1	48319.0	47991.7	47884.3	48216.6	48156.2
7.5°	42361.2	42485.3	42414.9	42507.2	42559.2	43143.2	43327.8	43183.5	43188.5	43272.5
10°	36957.1	36774.2	36514.1	36686.9	37052.8	37307.9	37205.5	37417.0	37370.0	37569.7
12.5°	30307.8	30452.2	30306.2	30151.8	30791.2	30720.7	30898.6	31014.4	30724.0	31370.2
15°	22829.5	22905.0	23082.9	23071.1	23562.9	23661.9	23638.4	23760.9	23534.3	23641.8
17.5°	14666.4	14921.5	15399.8	16208.7	17118.3	17224.1	17197.2	17096.5	16987.4	16866.6
20°	9851.4	9824.6	9997.4	10234.1	12117.1	12615.5	12600.4	12284.9	11828.4	11741.2
22.5°	6901.0	6951.4	6927.9	7162.8	7552.2	8926.7	8757.2	8436.7	8287.3	8189.9
25°	4539.7	4521.3	4638.7	4709.2	5043.2	5211.0	5805.1	5686.0	5456.0	5481.2
27.5°	2767.5	2791.0	2834.6	2895.0	3131.6	3077.9	3417.0	3462.3	3388.4	3309.5
30°	1698.4	1715.2	1750.4	1794.1	1876.3	1817.6	1911.5	2074.3	2047.5	1992.1
32.5°	1153.0	1154.6	1179.8	1196.6	1186.5	1131.2	1161.4	1315.8	1319.1	1314.1
35°	829.1	829.1	852.6	866.0	837.5	792.1	797.2	892.8	934.8	943.2
37.5°	572.3	574.0	614.2	654.5	622.6	610.9	590.8	654.5	721.7	731.7
40°	434.7	433.0	453.1	483.3	486.7	464.9	471.6	511.9	580.7	589.1
42.5°	352.4	354.1	364.2	360.8	362.5	391.0	401.1	419.6	483.3	498.4
45°	297.1	298.7	303.8	287.0	280.3	323.9	337.3	347.4	401.1	419.6
47.5°	245.0	248.4	253.4	235.0	231.6	260.1	283.6	293.7	340.7	360.8
50°	176.2	179.6	198.0	188.0	198.0	204.7	236.6	251.7	283.6	310.5
52.5°	127.5	130.9	135.9	137.6	162.8	166.1	189.6	213.1	228.2	258.5
55°	100.7	104.1	100.7	97.3	119.2	137.6	146.0	171.2	182.9	218.2
57.5°	57.1	60.4	65.5	75.5	78.9	105.7	114.1	135.9	146.0	179.6
60°	10.1	11.7	18.5	45.3	55.4	67.1	85.6	104.1	117.5	141.0
62.5°	1.7	1.7	3.4	10.1	31.9	47.0	62.1	73.8	85.6	107.4
65°	0.0	0.0	1.7	3.4	8.4	26.9	33.6	43.6	58.7	77.2
67.5°	0.0	0.0	1.7	3.4	5.0	10.1	15.1	26.9	33.6	52.0
70°	0.0	0.0	1.7	3.4	5.0	6.7	8.4	11.7	20.1	31.9
72.5°	0.0	0.0	1.7	3.4	5.0	6.7	8.4	10.1	10.1	20.1
75°	0.0	0.0	1.7	3.4	5.0	8.4	10.1	10.1	8.4	8.4
77.5°	0.0	0.0	1.7	3.4	6.7	10.1	11.7	10.1	6.7	6.7
80°	0.0	0.0	3.4	5.0	8.4	11.7	15.1	11.7	6.7	3.4
82.5°	0.0	0.0	3.4	6.7	8.4	13.4	18.5	15.1	6.7	3.4
85°	0.0	0.0	1.7	5.0	10.1	13.4	18.5	13.4	6.7	1.7
87.5°	0.0	0.0	1.7	1.7	3.4	5.0	10.1	8.4	3.4	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°
52657.3	0°	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3	52657.3
51397.0	2.5°	51692.3	51960.8	52016.2	51942.4	52049.8	51856.8	51709.1	51326.5	51096.5
48137.8	5°	48448.2	48408.0	48688.2	48780.5	48768.8	48621.1	48414.7	48183.1	47958.2
43109.7	7.5°	43378.2	43430.2	43685.3	43848.1	43765.9	43581.3	43438.6	43264.1	43113.0
37641.9	10°	37985.9	37628.4	37945.6	37945.6	38165.5	37643.5	37692.2	37252.5	37272.6
31358.4	12.5°	31465.8	31595.1	31647.1	31796.5	31539.7	31262.8	30923.8	30856.6	30646.8
23437.0	15°	23774.3	24143.6	23826.4	24368.4	24106.6	23818.0	23766.0	23245.7	23410.2
16999.2	17.5°	16915.3	17323.1	17450.6	17761.1	17522.8	17351.6	17135.1	16977.4	16965.6
11900.6	20°	11994.6	12404.1	12498.1	12870.6	12843.8	12790.1	12607.1	12407.4	12190.9
8101.0	22.5°	8223.5	8557.5	8869.6	9371.4	9363.1	9205.3	9186.8	8904.9	8909.9
5472.8	25°	5529.9	5773.2	5847.1	6360.6	6417.7	6400.9	6305.3	6043.4	6142.5
3343.1	27.5°	3346.5	3559.6	3809.7	3990.9	4162.1	4135.3	4039.6	3893.6	3829.8
2008.9	30°	2062.6	2158.3	2250.6	2468.7	2571.1	2624.8	2579.5	2443.6	2453.6
1322.5	32.5°	1351.0	1431.6	1498.7	1636.3	1690.0	1789.0	1770.6	1742.0	1708.5
951.6	35°	985.1	1043.9	1089.2	1153.0	1221.8	1305.7	1319.1	1307.4	1293.9
735.1	37.5°	751.9	812.3	864.3	891.2	944.9	1010.3	1047.2	1045.6	1035.5
599.1	40°	610.9	656.2	703.2	738.4	775.4	824.0	869.3	874.4	874.4
503.5	42.5°	510.2	548.8	595.8	632.7	659.6	704.9	751.9	755.2	751.9
426.3	45°	436.3	469.9	515.2	558.9	580.7	614.2	659.6	669.6	662.9
365.9	47.5°	379.3	409.5	448.1	495.1	518.6	548.8	590.8	602.5	600.8
315.5	50°	325.6	360.8	399.4	438.0	468.2	496.8	537.0	550.5	545.4
268.5	52.5°	287.0	318.9	352.4	394.4	429.6	454.8	486.7	510.2	503.5
226.6	55°	240.0	278.6	313.8	349.1	392.7	419.6	449.8	478.3	471.6
191.3	57.5°	208.1	240.0	280.3	312.2	355.8	387.7	417.9	448.1	446.4
156.1	60°	174.5	208.1	246.7	280.3	320.5	355.8	386.0	419.6	422.9
117.5	62.5°	137.6	177.9	211.5	250.1	290.3	328.9	355.8	389.4	394.4
88.9	65°	104.1	146.0	182.9	219.9	260.1	302.1	325.6	354.1	359.1
65.5	67.5°	77.2	112.4	156.1	189.6	231.6	271.9	293.7	317.2	325.6
40.3	70°	58.7	85.6	130.9	162.8	206.4	238.3	261.8	281.9	288.7
26.9	72.5°	36.9	67.1	105.7	139.3	177.9	206.4	223.2	235.0	245.0
15.1	75°	25.2	52.0	85.6	119.2	147.7	169.5	184.6	194.7	203.1
6.7	77.5°	15.1	40.3	70.5	99.0	117.5	134.3	149.4	156.1	161.1
5.0	80°	8.4	30.2	58.7	80.6	92.3	104.1	115.8	124.2	127.5
3.4	82.5°	5.0	23.5	47.0	62.1	67.1	78.9	90.6	95.7	95.7
1.7	85°	3.4	16.8	31.9	45.3	48.7	57.1	60.4	63.8	67.1
1.7	87.5°	3.4	10.1	20.1	25.2	26.9	30.2	31.9	35.2	38.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
52657.3
50927.0
47706.4
42601.1
37076.3
30455.5
23245.7
16653.5
12097.0
8812.6
5986.4
3774.4
2410.0
1696.7
1288.9
1030.5
864.3
748.5
662.9
597.5
542.1
501.8
474.9
448.1
424.6
397.7
364.2
328.9
292.0
243.3
201.4
159.4
124.2
94.0
65.5
36.9
0.0

(END OF REPORT)