

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: P637835

Luminaire Tested: **IFLD-L-SA8A-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24156.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

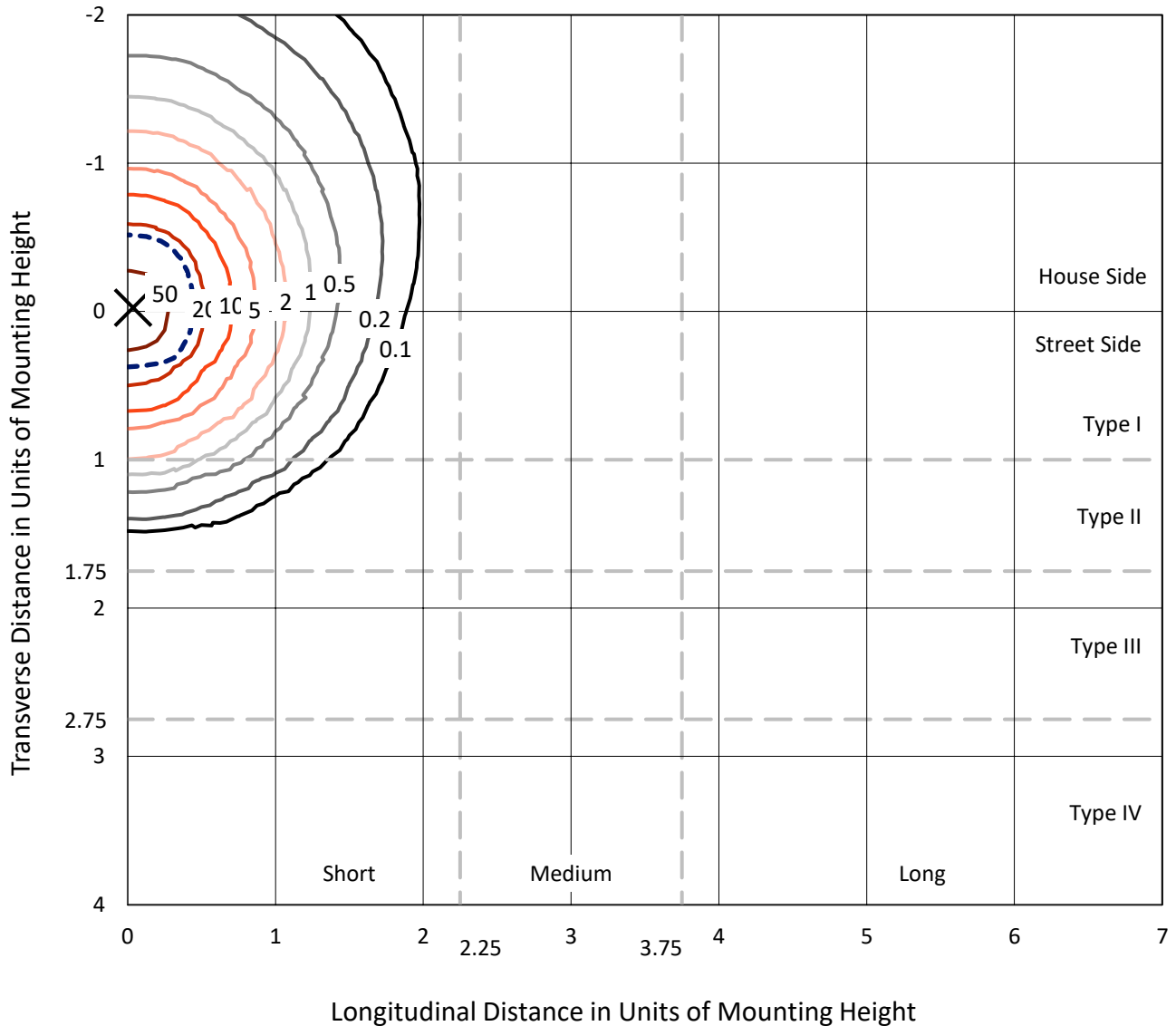
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

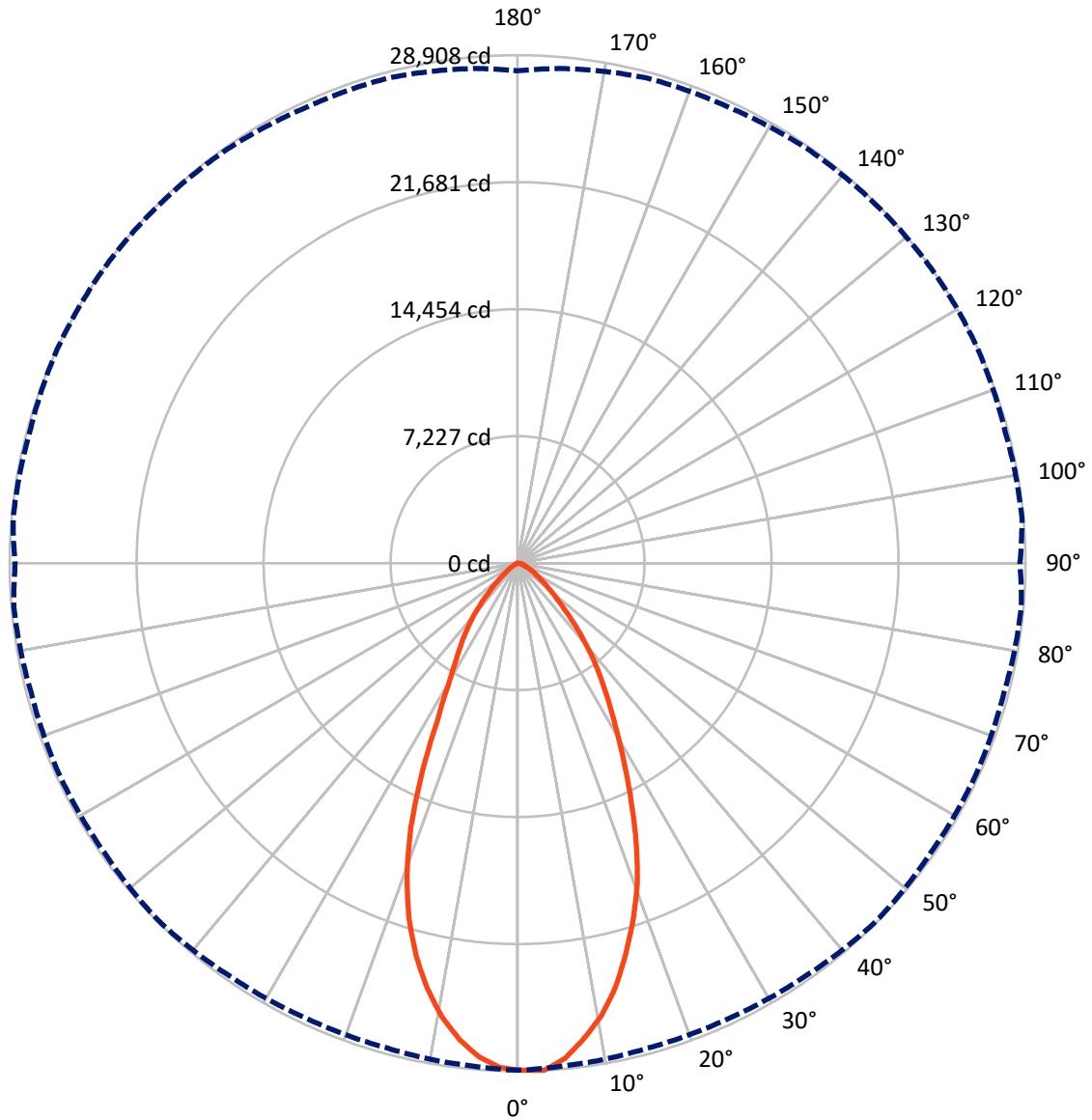
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 72.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13707.5	0.0	13707.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10449.2	0.0	10449.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	24156.7	0.0	24156.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2620.7	10.8
10°-20°	6247.2	25.9
20°-30°	6362.7	26.3
30°-40°	4744.6	19.6
40°-50°	2478.7	10.3
50°-60°	1042.6	4.3
60°-70°	425.8	1.8
70°-80°	179.2	0.7
80°-90°	55.2	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°	24156.7	100.0
0°-180°	24156.7	100.0



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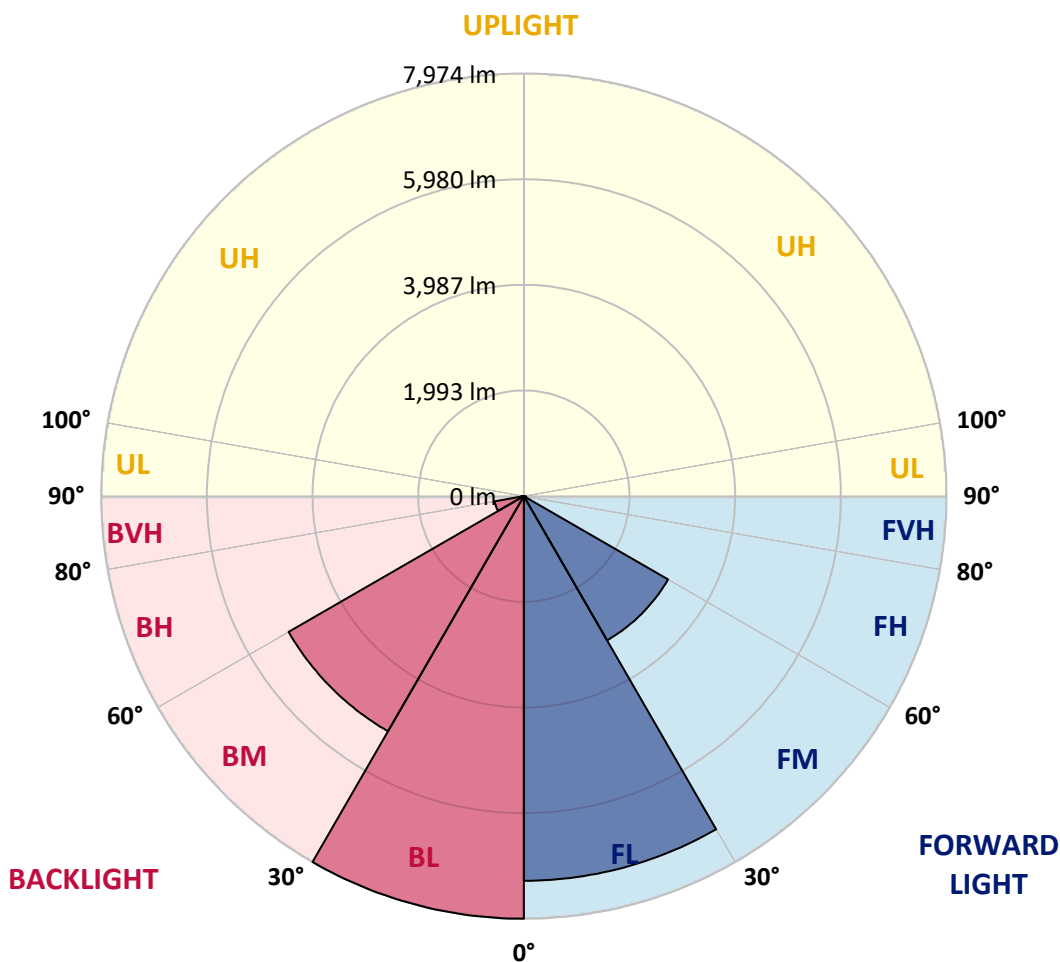
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7257.0	30.0			
FM (30°-60°)	3141.7	13.0			
FH (60°-80°)	45.4	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7973.7	33.0	B5		
BM (30°-60°)	5124.2	21.2	B4/8500		
BH (60°-80°)	559.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	50.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5
2.5°	28864.6	28746.7	28579.1	28563.6	28650.5	28839.8	28718.7	28724.9	28650.5	28777.7
5°	28411.5	28299.8	28185.0	28033.0	28160.2	28240.9	28178.8	28110.5	28014.3	28138.5
7.5°	27555.1	27493.0	27322.4	27254.1	27331.7	27421.7	27288.2	27269.6	27136.2	27297.5
10°	26245.6	26220.8	26053.2	26012.9	26081.1	26217.7	26158.7	26146.3	26062.5	26047.0
12.5°	24886.5	24790.3	24582.4	24570.0	24672.4	24877.2	24718.9	24566.9	24613.4	24653.7
15°	21386.2	21283.8	21798.9	22608.8	23033.9	23018.4	23065.0	22881.9	22826.0	22844.7
17.5°	17001.6	16827.8	17014.0	18267.7	20287.7	21460.7	21138.0	20743.9	20532.9	20393.3
20°	14674.3	14683.6	14649.5	14972.2	16232.1	18906.9	18829.3	18069.1	17792.9	17678.1
22.5°	13259.3	13206.6	13132.1	13234.5	13572.7	15142.9	16194.8	15496.6	15400.4	15273.2
25°	11872.3	11872.3	11782.3	11884.7	11980.9	12002.6	13057.6	13343.1	13156.9	13156.9
27.5°	10671.4	10609.3	10569.0	10615.5	10488.3	9877.0	10010.4	11472.0	11344.8	11267.2
30°	9479.8	9461.2	9392.9	9455.0	8983.3	8294.5	8015.2	9681.5	9815.0	9787.0
32.5°	7825.9	7900.4	8204.5	8300.7	7493.9	6938.4	6671.6	8036.9	8570.6	8548.9
35°	5318.6	5380.7	5728.2	6876.4	6212.3	5815.1	5737.5	6392.3	7270.4	7354.2
37.5°	4235.7	4226.4	4325.7	4530.5	4992.8	4896.6	4874.9	5045.6	5929.9	5967.2
40°	3490.9	3478.5	3475.4	3307.9	3193.0	4071.2	4012.2	3909.8	4676.3	4750.8
42.5°	2814.5	2826.9	2836.2	2470.0	2302.5	3140.3	3106.2	3000.7	3667.8	3754.7
45°	2209.4	2206.3	2224.9	1840.1	1793.6	2007.7	2321.1	2237.3	2767.9	2861.0
47.5°	1145.0	1185.4	1436.7	1424.3	1446.0	1424.3	1756.3	1734.6	2082.1	2231.1
50°	769.6	782.0	803.7	806.8	1138.8	1048.8	1191.6	1349.8	1458.4	1688.1
52.5°	595.8	605.1	549.2	515.1	698.2	775.8	782.0	934.0	1017.8	1250.5
55°	332.0	372.4	400.3	403.4	384.8	574.1	571.0	692.0	757.1	912.3
57.5°	43.4	52.8	80.7	260.7	257.6	319.6	400.3	502.7	539.9	667.2
60°	3.1	6.2	9.3	40.3	170.7	186.2	273.1	313.4	375.5	468.6
62.5°	0.0	0.0	3.1	9.3	34.1	108.6	142.7	164.5	220.3	307.2
65°	0.0	0.0	3.1	6.2	12.4	40.3	55.9	90.0	130.3	189.3
67.5°	0.0	0.0	3.1	6.2	9.3	15.5	24.8	40.3	68.3	114.8
70°	0.0	0.0	3.1	6.2	9.3	12.4	18.6	24.8	37.2	62.1
72.5°	0.0	0.0	3.1	3.1	6.2	15.5	15.5	18.6	24.8	34.1
75°	0.0	0.0	3.1	6.2	9.3	15.5	15.5	15.5	18.6	21.7
77.5°	0.0	0.0	3.1	6.2	9.3	15.5	12.4	15.5	15.5	15.5
80°	0.0	0.0	3.1	6.2	9.3	15.5	18.6	15.5	12.4	12.4
82.5°	0.0	0.0	3.1	9.3	9.3	21.7	21.7	21.7	9.3	9.3
85°	0.0	0.0	6.2	9.3	15.5	24.8	24.8	18.6	9.3	6.2
87.5°	0.0	0.0	3.1	6.2	6.2	12.4	18.6	15.5	6.2	3.1
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°
28861.5	0°	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5	28861.5
28591.5	2.5°	28821.1	28743.6	28889.4	28908.0	28846.0	28768.4	28588.4	28572.9	28259.5
27958.5	5°	28275.0	28147.8	28240.9	28302.9	28281.2	28197.4	28123.0	28054.7	27772.3
26931.4	7.5°	27257.2	27210.7	27254.1	27300.6	27390.6	27300.6	27269.6	27198.2	26919.0
25919.8	10°	26127.7	26040.8	26205.3	26183.5	26158.7	26133.9	26003.6	26016.0	25687.1
24542.0	12.5°	24740.6	24594.8	24753.0	24771.7	24753.0	24666.2	24520.3	24582.4	24281.4
22680.2	15°	22875.7	22860.2	22975.0	23049.5	23102.2	23009.1	22959.5	22990.5	22810.5
20284.6	17.5°	20585.6	20787.3	21162.8	21290.0	21293.1	21389.3	21361.4	21324.2	21190.7
17631.5	20°	17892.2	18280.1	18857.2	19449.9	19620.6	19539.9	19502.7	19570.9	19372.3
15139.8	22.5°	15406.6	15738.7	16408.9	17274.7	17774.3	17823.9	17814.6	17755.7	17678.1
13144.5	25°	13296.6	13591.4	14233.7	15025.0	15983.8	16126.6	16132.8	16114.1	16045.9
11335.4	27.5°	11515.4	11872.3	12226.0	12933.5	13954.4	14544.0	14469.5	14447.8	14423.0
9808.7	30°	9901.8	10351.8	10683.8	11124.4	12039.8	12837.3	12914.9	12877.7	12818.7
8545.8	32.5°	8623.4	8890.2	9312.3	9610.1	10268.0	11171.0	11468.9	11441.0	11388.2
7407.0	35°	7512.5	7618.0	7950.0	8282.0	8719.6	9594.6	10035.3	9973.2	9963.9
6035.4	37.5°	6187.5	6541.2	6724.3	7059.4	7366.6	8046.2	8654.4	8626.5	8629.6
4853.2	40°	4995.9	5200.7	5563.8	5846.1	6128.5	6625.0	7301.5	7320.1	7313.9
3757.8	42.5°	3835.4	4034.0	4415.6	4722.8	4974.2	5281.4	5926.8	5948.5	5976.5
2926.2	45°	2994.4	3121.7	3400.9	3720.6	3987.4	4173.6	4663.9	4803.5	4806.6
2268.3	47.5°	2324.2	2470.0	2668.6	2975.8	3236.5	3369.9	3726.8	3916.1	3906.7
1740.8	50°	1824.6	1958.0	2119.4	2361.4	2643.8	2749.3	3013.1	3199.2	3189.9
1312.6	52.5°	1396.4	1567.0	1709.8	1896.0	2172.1	2262.1	2451.4	2665.5	2634.5
961.9	55°	1058.1	1231.9	1365.3	1520.5	1771.8	1886.7	2017.0	2187.7	2193.9
744.7	57.5°	797.5	977.5	1098.5	1256.7	1446.0	1573.2	1672.5	1855.6	1852.5
508.9	60°	571.0	726.1	872.0	1036.4	1182.3	1328.1	1396.4	1570.1	1576.4
360.0	62.5°	412.7	558.5	698.2	840.9	971.3	1114.0	1176.1	1312.6	1331.2
235.8	65°	288.6	391.0	552.3	660.9	806.8	912.3	993.0	1110.9	1132.6
139.6	67.5°	186.2	282.4	437.5	533.7	667.2	757.1	840.9	934.0	961.9
90.0	70°	111.7	214.1	325.8	428.2	549.2	629.9	710.6	791.3	806.8
43.4	72.5°	71.4	148.9	235.8	347.5	440.6	527.5	598.9	657.8	611.3
27.9	75°	40.3	102.4	186.2	273.1	356.9	440.6	499.6	530.6	425.1
18.6	77.5°	24.8	74.5	152.0	220.3	276.2	353.7	391.0	409.6	304.1
12.4	80°	15.5	55.9	127.2	180.0	180.0	260.7	304.1	319.6	220.3
9.3	82.5°	12.4	40.3	99.3	136.5	121.0	195.5	238.9	242.0	155.2
6.2	85°	9.3	31.0	62.1	90.0	83.8	136.5	139.6	155.2	102.4
6.2	87.5°	6.2	18.6	37.2	52.8	46.5	65.2	74.5	83.8	55.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28861.5
28014.3
27545.8
26860.0
25575.3
24194.5
22593.3
20992.1
19229.6
17529.1
15816.3
14277.1
12744.2
11248.6
9861.5
8530.3
7205.3
5883.4
4725.9
3872.6
3189.9
2637.6
2193.9
1846.3
1560.8
1325.0
1126.4
958.8
794.4
567.9
403.4
285.5
204.8
142.7
93.1
49.6
0.0

(END OF REPORT)