

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: P637864

Luminaire Tested: **IFLD-L-SA8A-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26302.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

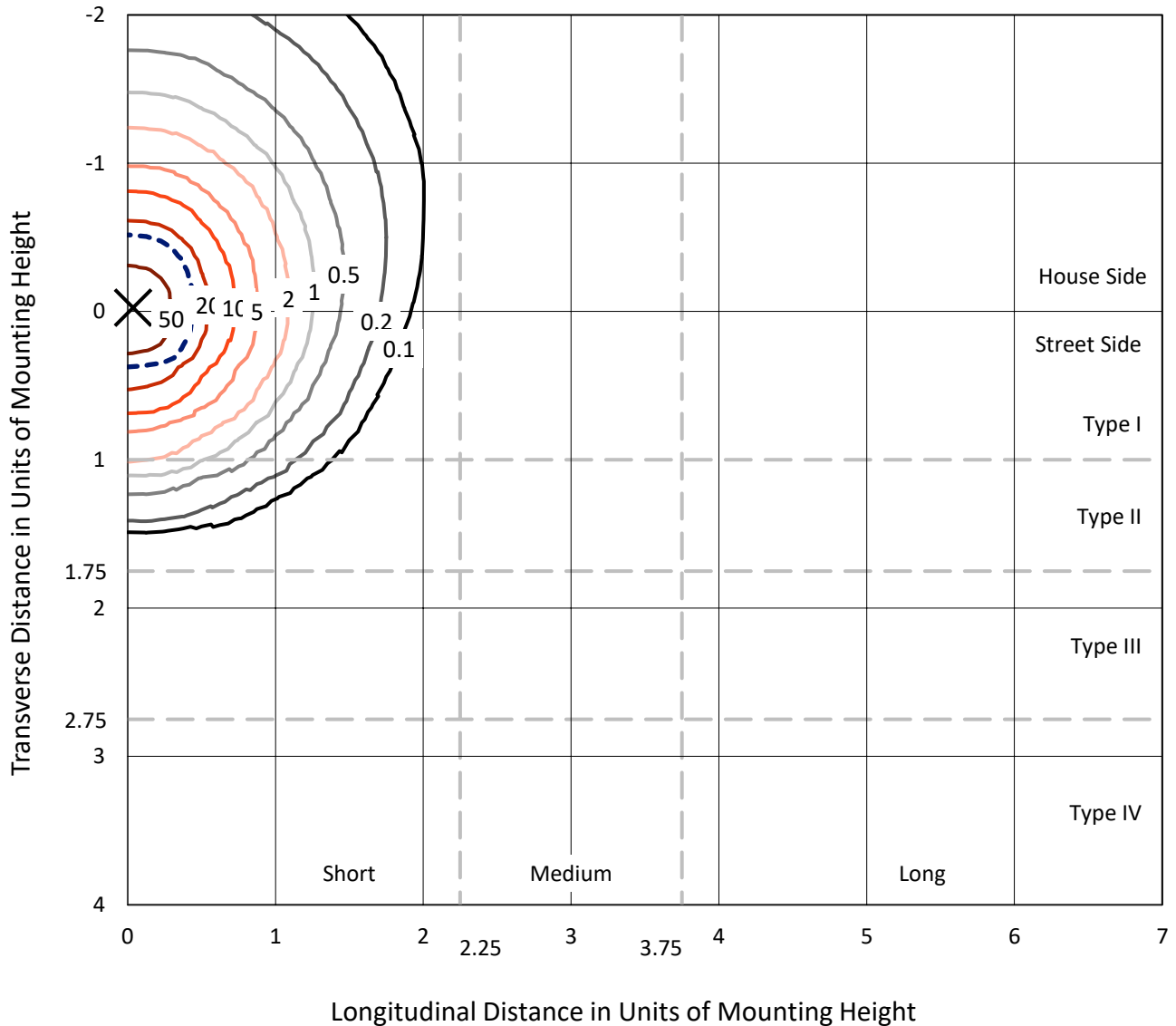
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637864
 CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

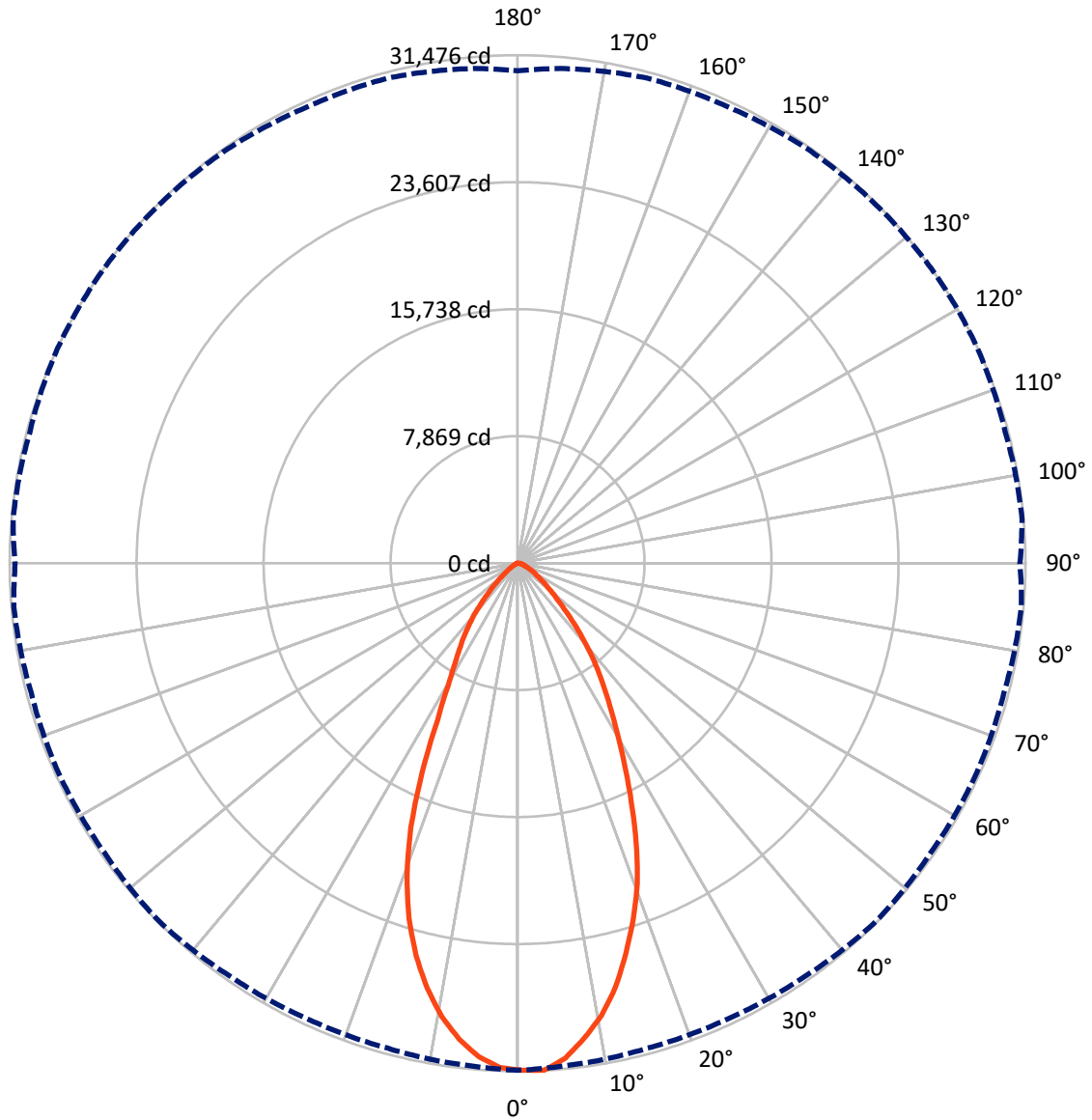
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.6 fc
 Type I - Short - N/A

REPORT NUMBER: P637864
CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637864

CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14925.3	0.0	14925.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11377.6	0.0	11377.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	26302.9	0.0	26302.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2853.6	10.8
10°-20°	6802.3	25.9
20°-30°	6928.0	26.3
30°-40°	5166.2	19.6
40°-50°	2698.9	10.3
50°-60°	1135.2	4.3
60°-70°	463.6	1.8
70°-80°	195.1	0.7
80°-90°	60.1	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°	26302.9	100.0
0°-180°	26302.9	100.0



REPORT NUMBER: P637864

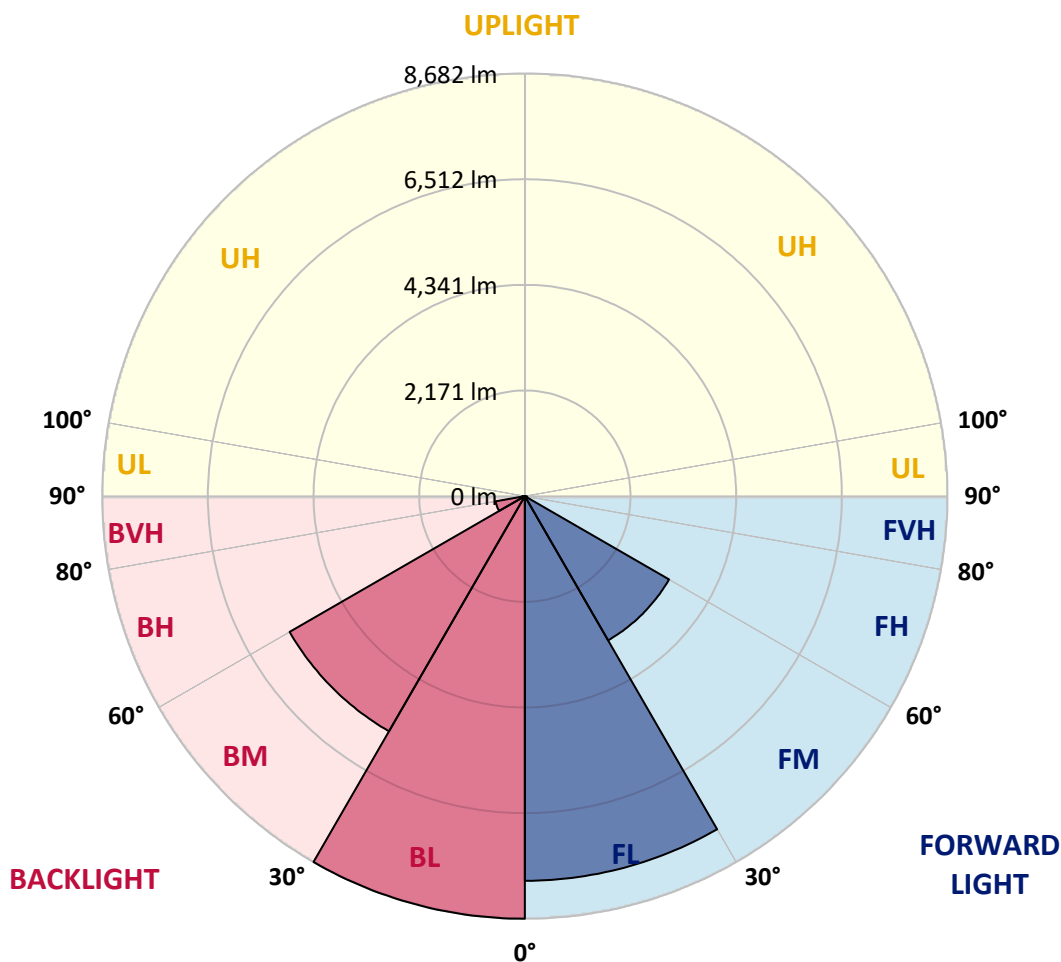
CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7901.7	30.0			
FM (30°-60°)	3420.8	13.0			
FH (60°-80°)	49.5	0.2			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	8682.1	33.0	B5		
BM (30°-60°)	5579.5	21.2	B4/8500		
BH (60°-80°)	609.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	54.5	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





REPORT NUMBER: P637864
 CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6
2.5°	31429.0	31300.6	31118.2	31101.3	31195.9	31402.0	31270.2	31277.0	31195.9	31334.4
5°	30935.7	30814.1	30689.1	30523.5	30662.0	30749.9	30682.3	30608.0	30503.2	30638.4
7.5°	30003.2	29935.6	29749.8	29675.5	29759.9	29857.9	29712.6	29692.3	29547.1	29722.8
10°	28577.4	28550.3	28367.9	28324.0	28398.3	28547.0	28482.8	28469.2	28378.0	28361.1
12.5°	27097.5	26992.7	26766.4	26752.8	26864.3	27087.3	26915.0	26749.5	26800.1	26844.1
15°	23286.3	23174.8	23735.6	24617.5	25080.4	25063.5	25114.2	24914.8	24854.0	24874.3
17.5°	18512.1	18322.9	18525.6	19890.6	22090.2	23367.4	23016.0	22586.9	22357.1	22205.1
20°	15978.1	15988.2	15951.0	16302.4	17674.2	20586.6	20502.2	19674.4	19373.7	19248.7
22.5°	14437.3	14379.9	14298.8	14410.3	14778.6	16488.2	17633.6	16873.4	16768.7	16630.1
25°	12927.1	12927.1	12829.1	12940.6	13045.3	13069.0	14217.7	14528.6	14325.8	14325.8
27.5°	11619.5	11551.9	11508.0	11558.7	11420.1	10754.5	10899.8	12491.2	12352.7	12268.2
30°	10322.0	10301.8	10227.4	10295.0	9781.4	9031.4	8727.3	10541.7	10686.9	10656.5
32.5°	8521.2	8602.3	8933.4	9038.1	8159.7	7554.9	7264.3	8750.9	9332.1	9308.4
35°	5791.2	5858.7	6237.2	7487.3	6764.2	6331.8	6247.3	6960.2	7916.4	8007.6
37.5°	4612.0	4601.8	4710.0	4933.0	5436.4	5331.6	5308.0	5493.8	6456.8	6497.3
40°	3801.1	3787.6	3784.2	3601.7	3476.7	4432.9	4368.7	4257.2	5091.8	5172.8
42.5°	3064.5	3078.0	3088.2	2689.5	2507.0	3419.3	3382.1	3267.2	3993.7	4088.3
45°	2405.7	2402.3	2422.6	2003.6	1952.9	2186.0	2527.3	2436.1	3013.8	3115.2
47.5°	1246.8	1290.7	1564.4	1550.8	1574.5	1550.8	1912.4	1888.7	2267.1	2429.3
50°	837.9	851.4	875.1	878.5	1240.0	1142.0	1297.4	1469.8	1588.0	1838.0
52.5°	648.7	658.9	598.0	560.9	760.2	844.7	851.4	1017.0	1108.2	1361.6
55°	361.5	405.4	435.9	439.2	419.0	625.1	621.7	753.5	824.4	993.3
57.5°	47.3	57.4	87.8	283.8	280.4	348.0	435.9	547.4	587.9	726.4
60°	3.4	6.8	10.1	43.9	185.8	202.7	297.3	341.3	408.8	510.2
62.5°	0.0	0.0	3.4	10.1	37.2	118.3	155.4	179.1	239.9	334.5
65°	0.0	0.0	3.4	6.8	13.5	43.9	60.8	98.0	141.9	206.1
67.5°	0.0	0.0	3.4	6.8	10.1	16.9	27.0	43.9	74.3	125.0
70°	0.0	0.0	3.4	6.8	10.1	13.5	20.3	27.0	40.5	67.6
72.5°	0.0	0.0	3.4	3.4	6.8	16.9	16.9	20.3	27.0	37.2
75°	0.0	0.0	3.4	6.8	10.1	16.9	16.9	16.9	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	10.1	16.9	13.5	16.9	16.9	16.9
80°	0.0	0.0	3.4	6.8	10.1	16.9	20.3	16.9	13.5	13.5
82.5°	0.0	0.0	3.4	10.1	10.1	23.7	23.7	23.7	10.1	10.1
85°	0.0	0.0	6.8	10.1	16.9	27.0	27.0	20.3	10.1	6.8
87.5°	0.0	0.0	3.4	6.8	6.8	13.5	20.3	16.9	6.8	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637864

CATALOG NUMBER: IFLD-L-SA8A-730-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
31425.6	0°	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6	31425.6
31131.7	2.5°	31381.7	31297.2	31456.0	31476.3	31408.7	31324.3	31128.3	31111.4	30770.2
30442.4	5°	30787.1	30648.5	30749.9	30817.5	30793.8	30702.6	30621.5	30547.2	30239.7
29324.1	7.5°	29678.8	29628.2	29675.5	29726.1	29824.1	29726.1	29692.3	29614.6	29310.6
28222.6	10°	28449.0	28354.4	28533.4	28509.8	28482.8	28455.7	28313.8	28327.3	27969.2
26722.4	12.5°	26938.7	26779.9	26952.2	26972.5	26952.2	26857.6	26698.8	26766.4	26438.6
24695.2	15°	24908.1	24891.2	25016.2	25097.3	25154.7	25053.3	24999.3	25033.1	24837.1
22086.8	17.5°	22414.5	22634.2	23043.0	23181.5	23184.9	23289.6	23259.2	23218.7	23073.4
19198.0	20°	19481.8	19904.1	20532.6	21177.9	21363.8	21275.9	21235.4	21309.7	21093.5
16484.9	22.5°	16775.4	17137.0	17866.8	18809.4	19353.4	19407.5	19397.3	19333.1	19248.7
14312.3	25°	14477.9	14798.9	15498.3	16359.8	17403.9	17559.3	17566.1	17545.8	17471.5
12342.5	27.5°	12538.5	12927.1	13312.2	14082.6	15194.2	15836.1	15755.1	15731.4	15704.4
10680.2	30°	10781.6	11271.5	11633.0	12112.8	13109.5	13977.8	14062.3	14021.8	13957.6
9305.0	32.5°	9389.5	9680.1	10139.6	10464.0	11180.2	12163.5	12487.8	12457.4	12400.0
8065.0	35°	8179.9	8294.8	8656.3	9017.9	9494.3	10447.1	10926.8	10859.3	10849.1
6571.6	37.5°	6737.2	7122.4	7321.7	7686.6	8021.1	8761.1	9423.3	9392.9	9396.3
5284.3	40°	5439.8	5662.8	6058.1	6365.5	6673.0	7213.6	7950.2	7970.4	7963.7
4091.7	42.5°	4176.1	4392.4	4807.9	5142.4	5416.1	5750.6	6453.4	6477.0	6507.4
3186.1	45°	3260.5	3399.0	3703.1	4051.1	4341.7	4544.4	5078.2	5230.3	5233.7
2469.9	47.5°	2530.7	2689.5	2905.7	3240.2	3524.0	3669.3	4057.9	4264.0	4253.8
1895.5	50°	1986.7	2132.0	2307.7	2571.2	2878.7	2993.6	3280.8	3483.5	3473.3
1429.2	52.5°	1520.4	1706.3	1861.7	2064.4	2365.1	2463.1	2669.2	2902.3	2868.5
1047.4	55°	1152.1	1341.4	1486.6	1655.6	1929.3	2054.3	2196.2	2382.0	2388.8
810.9	57.5°	868.3	1064.3	1196.1	1368.4	1574.5	1713.0	1821.1	2020.5	2017.1
554.1	60°	621.7	790.6	949.4	1128.5	1287.3	1446.1	1520.4	1709.6	1716.4
391.9	62.5°	449.4	608.2	760.2	915.6	1057.5	1213.0	1280.5	1429.2	1449.5
256.8	65°	314.2	425.7	601.4	719.7	878.5	993.3	1081.2	1209.6	1233.2
152.0	67.5°	202.7	307.5	476.4	581.1	726.4	824.4	915.6	1017.0	1047.4
98.0	70°	121.6	233.1	354.8	466.3	598.0	685.9	773.7	861.6	878.5
47.3	72.5°	77.7	162.2	256.8	378.4	479.8	574.4	652.1	716.3	665.6
30.4	75°	43.9	111.5	202.7	297.3	388.6	479.8	544.0	577.8	462.9
20.3	77.5°	27.0	81.1	165.6	239.9	300.7	385.2	425.7	446.0	331.1
13.5	80°	16.9	60.8	138.5	196.0	196.0	283.8	331.1	348.0	239.9
10.1	82.5°	13.5	43.9	108.1	148.7	131.8	212.9	260.2	263.5	168.9
6.8	85°	10.1	33.8	67.6	98.0	91.2	148.7	152.0	168.9	111.5
6.8	87.5°	6.8	20.3	40.5	57.4	50.7	71.0	81.1	91.2	60.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
31425.6
30503.2
29993.1
29246.4
27847.6
26344.0
24600.6
22857.2
20938.0
19086.5
17221.4
15545.6
13876.5
12247.9
10737.6
9288.2
7845.4
6406.1
5145.8
4216.7
3473.3
2871.9
2388.8
2010.3
1699.5
1442.7
1226.5
1044.0
865.0
618.3
439.2
310.8
223.0
155.4
101.4
54.1
0.0

(END OF REPORT)