

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: P637996

Luminaire Tested: **IFLD-S-SA6C-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637996
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25755.7 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

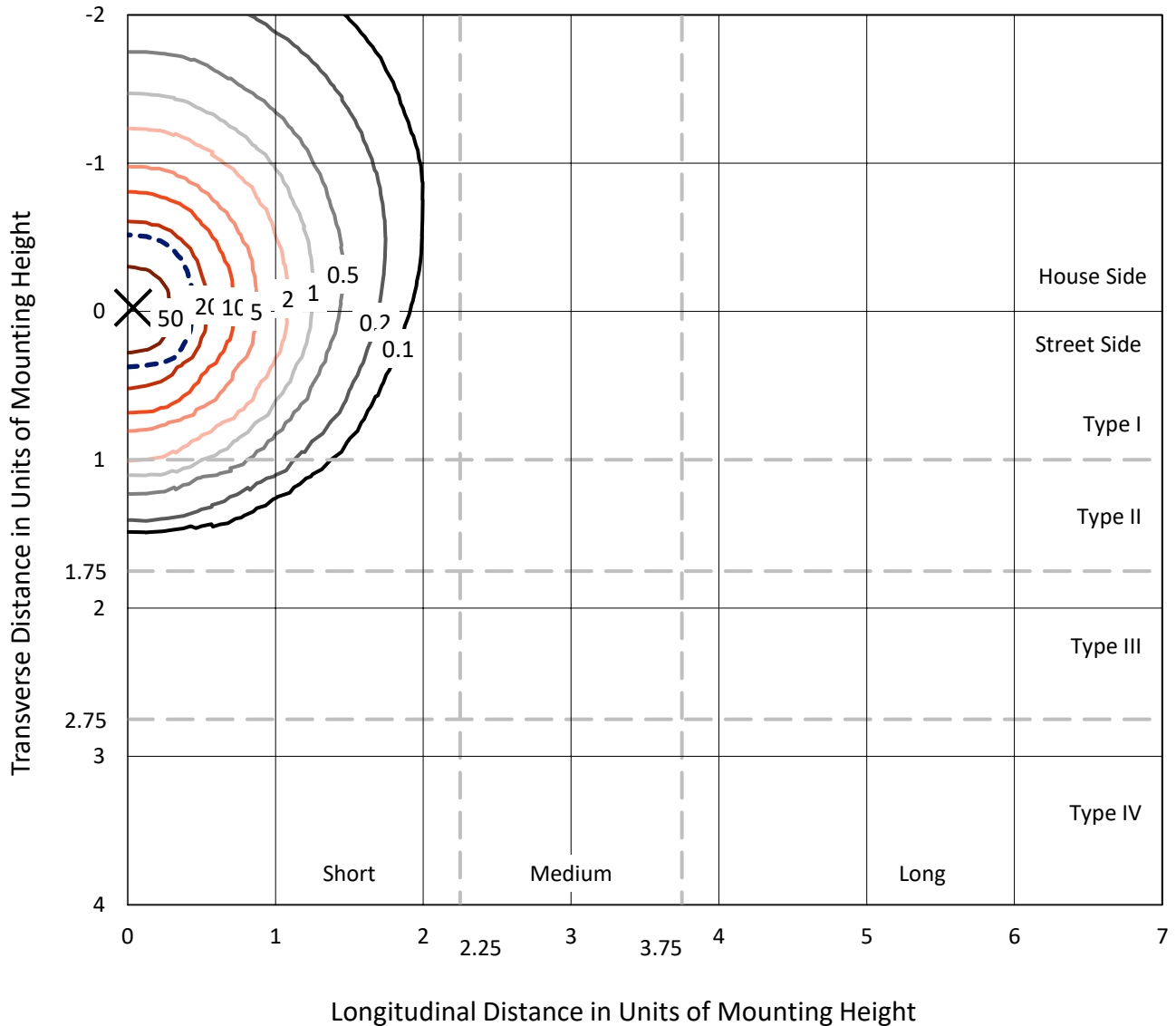
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

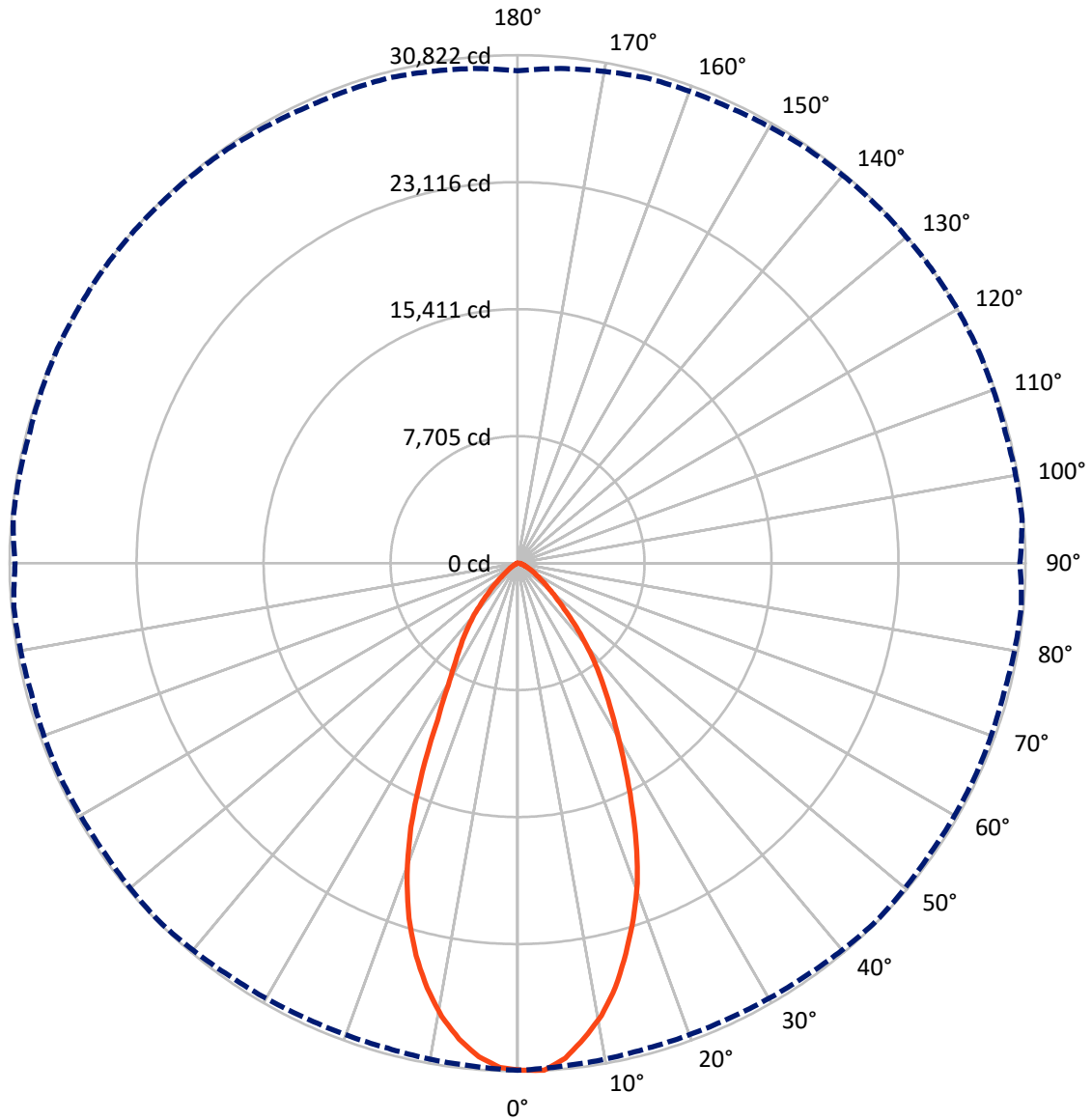
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 76.9 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	14614.8	0.0	14614.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11140.9	0.0	11140.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	25755.7	0.0	25755.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2794.2	10.8
10°-20°	6660.7	25.9
20°-30°	6783.8	26.3
30°-40°	5058.7	19.6
40°-50°	2642.8	10.3
50°-60°	1111.6	4.3
60°-70°	454.0	1.8
70°-80°	191.0	0.7
80°-90°	58.9	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°	25755.7	100.0
0°-180°	25755.7	100.0

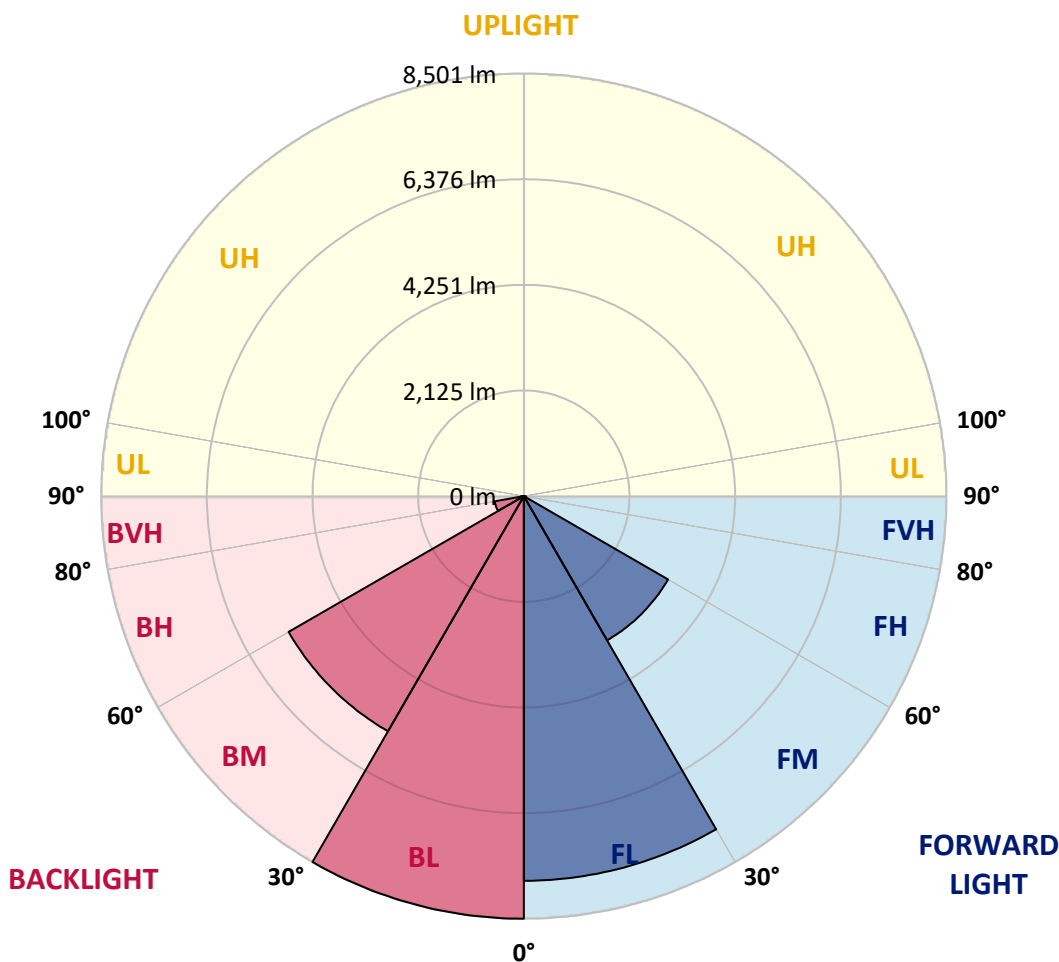


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7737.3	30.0			
FM (30°-60°)	3349.6	13.0			
FH (60°-80°)	48.5	0.2			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	8501.4	33.0	B5		
BM (30°-60°)	5463.4	21.2	B4/8500		
BH (60°-80°)	596.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	53.4	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8
2.5°	30775.1	30649.4	30470.8	30454.2	30546.9	30748.7	30619.6	30626.3	30546.9	30682.5
5°	30292.1	30173.0	30050.6	29888.5	30024.1	30110.1	30044.0	29971.2	29868.6	30001.0
7.5°	29379.0	29312.8	29130.8	29058.1	29140.8	29236.7	29094.4	29074.6	28932.3	29104.4
10°	27982.8	27956.3	27777.7	27734.7	27807.5	27953.0	27890.2	27876.9	27787.6	27771.1
12.5°	26533.7	26431.2	26209.5	26196.3	26305.4	26523.8	26355.1	26192.9	26242.6	26285.6
15°	22801.8	22692.6	23241.8	24105.3	24558.6	24542.0	24591.7	24396.5	24336.9	24356.8
17.5°	18127.0	17941.7	18140.2	19476.8	21630.6	22881.2	22537.1	22116.9	21892.0	21743.1
20°	15645.6	15655.6	15619.2	15963.2	17306.5	20158.3	20075.6	19265.1	18970.6	18848.2
22.5°	14137.0	14080.7	14001.3	14110.5	14471.1	16145.2	17266.8	16522.4	16419.8	16284.2
25°	12658.1	12658.1	12562.2	12671.3	12773.9	12797.1	13921.9	14226.3	14027.8	14027.8
27.5°	11377.7	11311.6	11268.6	11318.2	11182.5	10530.8	10673.0	12231.3	12095.7	12013.0
30°	10107.3	10087.4	10014.7	10080.8	9577.9	8843.5	8545.7	10322.3	10464.6	10434.8
32.5°	8343.9	8423.3	8747.5	8850.1	7989.9	7397.7	7113.2	8568.9	9137.9	9114.8
35°	5670.7	5736.8	6107.4	7331.5	6623.5	6200.0	6117.3	6815.4	7751.7	7841.0
37.5°	4516.0	4506.1	4612.0	4830.3	5323.3	5220.7	5197.6	5379.5	6322.4	6362.1
40°	3722.0	3708.8	3705.5	3526.8	3404.4	4340.7	4277.8	4168.6	4985.8	5065.2
42.5°	3000.8	3014.0	3023.9	2633.5	2454.9	3348.1	3311.8	3199.3	3910.6	4003.2
45°	2355.6	2352.3	2372.2	1961.9	1912.3	2140.6	2474.7	2385.4	2951.1	3050.4
47.5°	1220.8	1263.8	1531.8	1518.6	1541.7	1518.6	1872.6	1849.4	2220.0	2378.8
50°	820.5	833.7	856.9	860.2	1214.2	1118.3	1270.4	1439.2	1555.0	1799.8
52.5°	635.2	645.1	585.6	549.2	744.4	827.1	833.7	995.8	1085.2	1333.3
55°	354.0	397.0	426.8	430.1	410.2	612.1	608.8	737.8	807.3	972.7
57.5°	46.3	56.2	86.0	277.9	274.6	340.8	426.8	536.0	575.7	711.3
60°	3.3	6.6	9.9	43.0	182.0	198.5	291.1	334.2	400.3	499.6
62.5°	0.0	0.0	3.3	9.9	36.4	115.8	152.2	175.3	234.9	327.5
65°	0.0	0.0	3.3	6.6	13.2	43.0	59.6	95.9	139.0	201.8
67.5°	0.0	0.0	3.3	6.6	9.9	16.5	26.5	43.0	72.8	122.4
70°	0.0	0.0	3.3	6.6	9.9	13.2	19.9	26.5	39.7	66.2
72.5°	0.0	0.0	3.3	3.3	6.6	16.5	16.5	19.9	26.5	36.4
75°	0.0	0.0	3.3	6.6	9.9	16.5	16.5	16.5	19.9	23.2
77.5°	0.0	0.0	3.3	6.6	9.9	16.5	13.2	16.5	16.5	16.5
80°	0.0	0.0	3.3	6.6	9.9	16.5	19.9	16.5	13.2	13.2
82.5°	0.0	0.0	3.3	9.9	9.9	23.2	23.2	23.2	9.9	9.9
85°	0.0	0.0	6.6	9.9	16.5	26.5	26.5	19.9	9.9	6.6
87.5°	0.0	0.0	3.3	6.6	6.6	13.2	19.9	16.5	6.6	3.3
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°
30771.8	0°	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8	30771.8
30484.0	2.5°	30728.8	30646.1	30801.6	30821.5	30755.3	30672.6	30480.7	30464.1	30130.0
29809.1	5°	30146.5	30010.9	30110.1	30176.3	30153.1	30063.8	29984.4	29911.6	29610.6
28714.0	7.5°	29061.4	29011.7	29058.1	29107.7	29203.6	29107.7	29074.6	28998.5	28700.7
27635.4	10°	27857.1	27764.5	27939.8	27916.6	27890.2	27863.7	27724.8	27738.0	27387.3
26166.5	12.5°	26378.2	26222.7	26391.4	26411.3	26391.4	26298.8	26143.3	26209.5	25888.6
24181.4	15°	24389.8	24373.3	24495.7	24575.1	24631.4	24532.1	24479.2	24512.3	24320.4
21627.3	17.5°	21948.2	22163.3	22563.6	22699.2	22702.5	22805.1	22775.3	22735.6	22593.4
18798.6	20°	19076.5	19490.0	20105.4	20737.3	20919.3	20833.3	20793.6	20866.3	20654.6
16141.9	22.5°	16426.4	16780.4	17495.0	18418.1	18950.8	19003.7	18993.8	18930.9	18848.2
14014.6	25°	14176.7	14491.0	15175.8	16019.5	17041.8	17194.0	17200.6	17180.7	17108.0
12085.7	27.5°	12277.6	12658.1	13035.3	13789.6	14878.1	15506.7	15427.3	15404.1	15377.6
10458.0	30°	10557.2	11037.0	11391.0	11860.8	12836.8	13687.0	13769.7	13730.0	13667.2
9111.5	32.5°	9194.2	9478.7	9928.6	10246.2	10947.6	11910.4	12228.0	12198.2	12142.0
7897.3	35°	8009.7	8122.2	8476.2	8830.2	9296.7	10229.7	10699.5	10633.3	10623.4
6434.9	37.5°	6597.0	6974.2	7169.4	7526.7	7854.2	8578.8	9227.2	9197.5	9200.8
5174.4	40°	5326.6	5545.0	5932.0	6233.1	6534.2	7063.5	7784.8	7804.6	7798.0
4006.5	42.5°	4089.2	4301.0	4707.9	5035.5	5303.4	5631.0	6319.1	6342.3	6372.1
3119.9	45°	3192.6	3328.3	3626.1	3966.8	4251.3	4449.9	4972.6	5121.5	5124.8
2418.5	47.5°	2478.0	2633.5	2845.3	3172.8	3450.7	3593.0	3973.4	4175.3	4165.3
1856.0	50°	1945.4	2087.6	2259.7	2517.7	2818.8	2931.3	3212.5	3411.0	3401.1
1399.5	52.5°	1488.8	1670.8	1823.0	2021.5	2315.9	2411.9	2613.7	2842.0	2808.9
1025.6	55°	1128.2	1313.5	1455.7	1621.1	1889.1	2011.5	2150.5	2332.5	2339.1
794.0	57.5°	850.3	1042.2	1171.2	1339.9	1541.7	1677.4	1783.3	1978.4	1975.1
542.6	60°	608.8	774.2	929.7	1105.0	1260.5	1416.0	1488.8	1674.1	1680.7
383.8	62.5°	440.0	595.5	744.4	896.6	1035.5	1187.7	1253.9	1399.5	1419.3
251.4	65°	307.7	416.9	588.9	704.7	860.2	972.7	1058.7	1184.4	1207.6
148.9	67.5°	198.5	301.1	466.5	569.1	711.3	807.3	896.6	995.8	1025.6
95.9	70°	119.1	228.3	347.4	456.6	585.6	671.6	757.6	843.7	860.2
46.3	72.5°	76.1	158.8	251.4	370.5	469.8	562.4	638.5	701.4	651.8
29.8	75°	43.0	109.2	198.5	291.1	380.5	469.8	532.7	565.7	453.3
19.9	77.5°	26.5	79.4	162.1	234.9	294.5	377.2	416.9	436.7	324.2
13.2	80°	16.5	59.6	135.6	191.9	191.9	277.9	324.2	340.8	234.9
9.9	82.5°	13.2	43.0	105.9	145.6	129.0	208.4	254.8	258.1	165.4
6.6	85°	9.9	33.1	66.2	95.9	89.3	145.6	148.9	165.4	109.2
6.6	87.5°	6.6	19.9	39.7	56.2	49.6	69.5	79.4	89.3	59.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30771.8
29868.6
29369.0
28637.9
27268.2
25795.9
24088.8
22381.6
20502.4
18689.4
16863.1
15222.1
13587.8
11993.1
10514.2
9094.9
7682.2
6272.8
5038.8
4128.9
3401.1
2812.2
2339.1
1968.5
1664.1
1412.7
1201.0
1022.3
847.0
605.4
430.1
304.4
218.4
152.2
99.3
52.9
0.0

(END OF REPORT)