

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: P638056

Luminaire Tested: **IFLD-S-SA6E-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638056
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29979.5 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
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

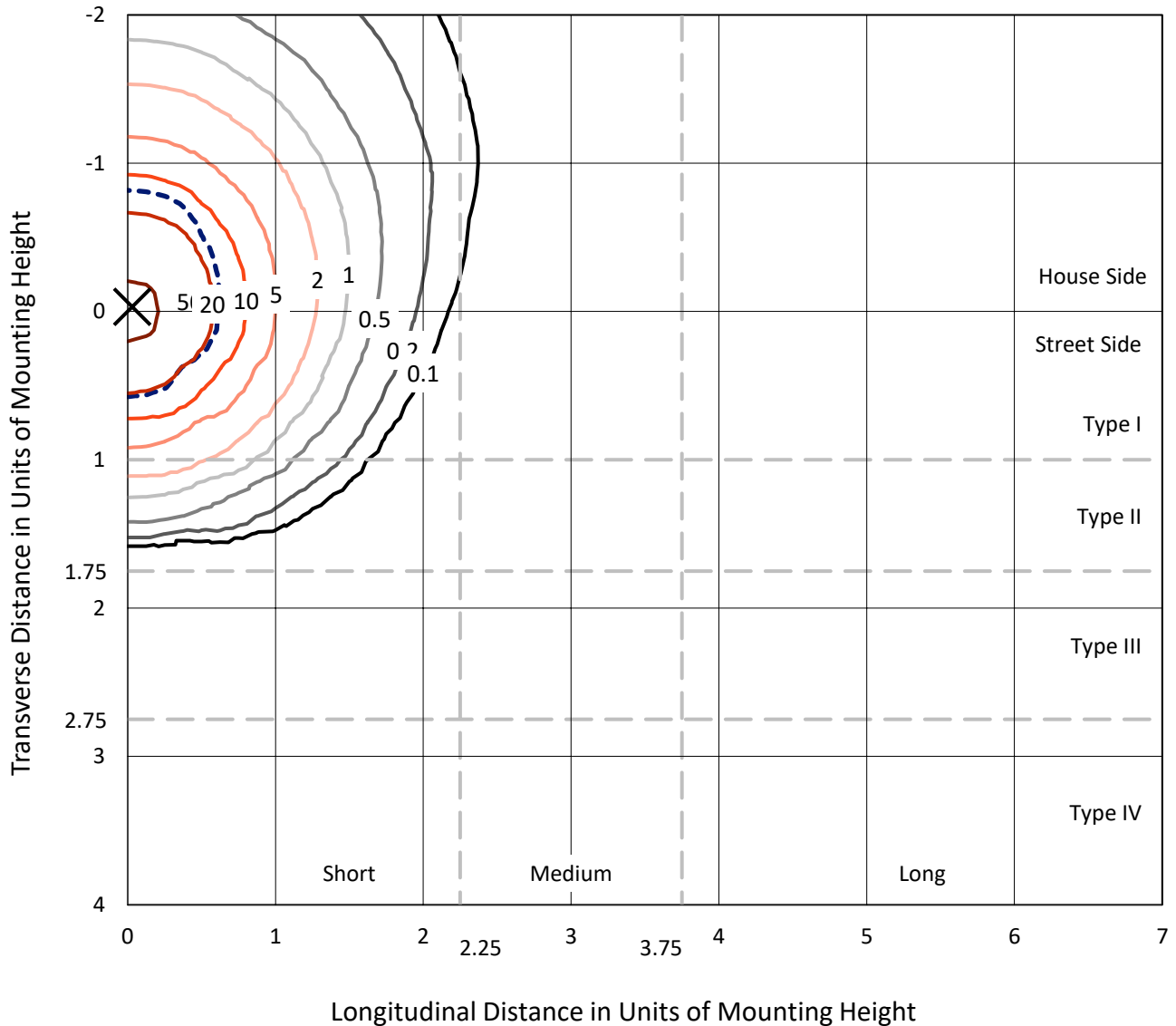




REPORT NUMBER: P638056
 CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

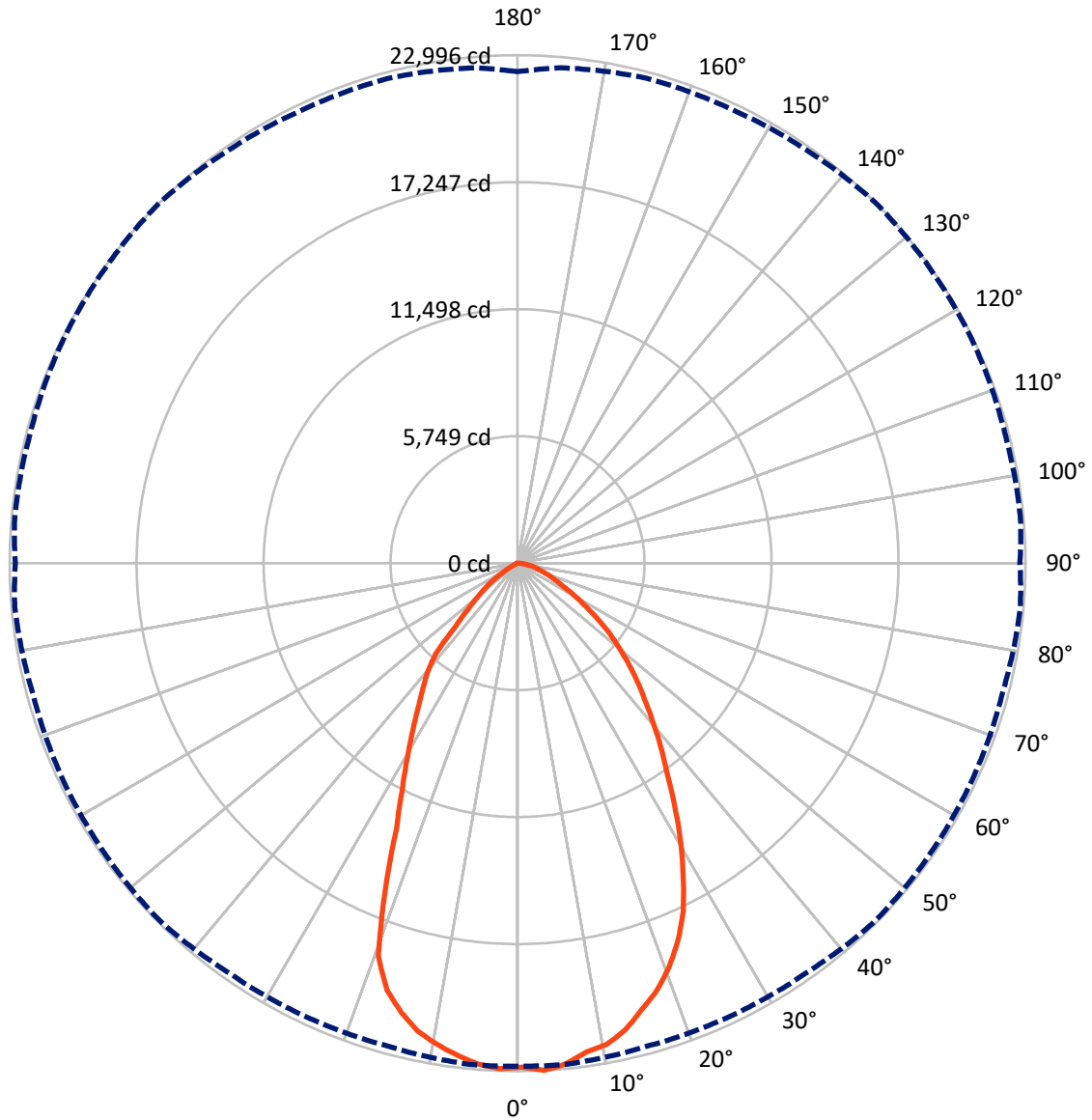
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57 fc
 Type I - Short - N/A

REPORT NUMBER: P638056
CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638056

CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17755.4	0.0	17755.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12224.1	0.0	12224.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	29979.5	0.0	29979.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2139.6	7.1
10°-20°	5737.5	19.1
20°-30°	6997.2	23.3
30°-40°	6388.4	21.3
40°-50°	4616.7	15.4
50°-60°	2520.8	8.4
60°-70°	1042.3	3.5
70°-80°	422.1	1.4
80°-90°	114.8	0.4
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°	29979.5	100.0
0°-180°	29979.5	100.0



REPORT NUMBER: P638056

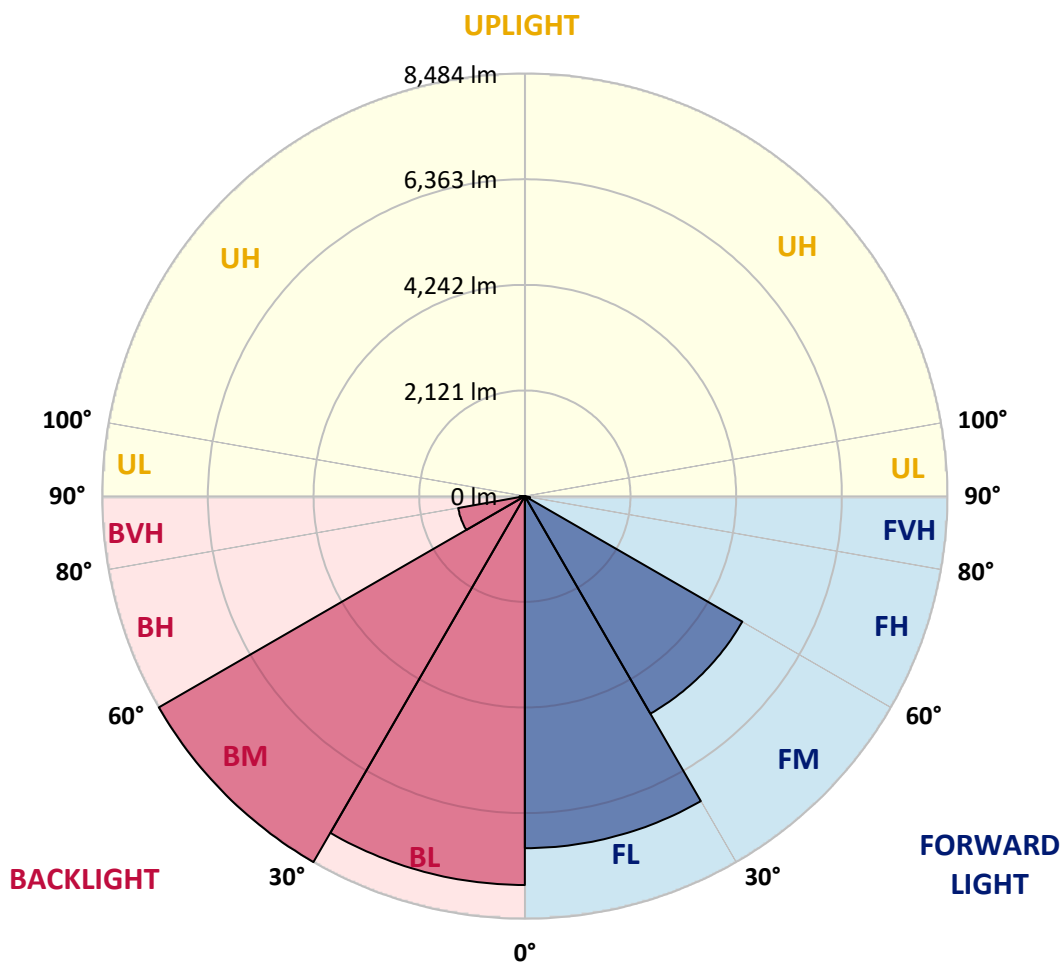
CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7067.3	23.6			
FM (30°-60°)	5042.0	16.8			
FH (60°-80°)	105.6	0.4			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	7807.1	26.0	B5		
BM (30°-60°)	8483.9	28.3	B4/8500		
BH (60°-80°)	1358.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	105.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638056
 CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3
2.5°	22772.1	22801.6	22641.2	22658.1	22687.6	22903.0	22848.1	22797.4	22725.6	22848.1
5°	22742.5	22759.4	22590.5	22531.4	22556.8	22751.0	22573.7	22573.7	22556.8	22535.7
7.5°	22514.6	22523.0	22392.1	22286.6	22354.1	22442.8	22311.9	22375.2	22282.4	22354.1
10°	22172.6	22117.7	21961.5	21932.0	22007.9	22092.4	22003.7	22062.8	21978.4	22033.3
12.5°	21670.2	21585.8	21459.1	21421.1	21552.0	21666.0	21594.2	21560.4	21450.7	21585.8
15°	19732.4	19669.1	19956.2	20458.6	20910.3	21007.4	20931.4	20965.2	20737.2	20775.2
17.5°	16241.0	16122.8	16431.0	17621.6	19318.7	20213.7	20146.2	19926.6	19588.9	19664.9
20°	14759.2	14725.4	14691.7	14974.5	16160.8	18875.4	18968.3	18411.0	17929.7	17824.2
22.5°	13923.3	13910.6	13876.9	13940.2	14252.6	15996.2	17060.1	16545.0	16224.2	16194.6
25°	13159.2	13138.1	13036.7	13117.0	13117.0	13218.3	14581.9	14894.3	14611.5	14577.7
27.5°	12382.4	12344.4	12327.5	12365.5	12171.3	11487.4	11833.5	13357.6	13209.8	13218.3
30°	11542.2	11529.6	11483.1	11563.4	10963.9	10115.3	9895.8	11964.4	11994.0	11985.5
32.5°	10292.6	10347.5	10558.6	10647.2	9659.3	8958.5	8591.2	10351.7	10955.4	10942.8
35°	7476.7	7476.7	8164.9	9444.0	8464.6	7936.9	7738.5	8777.0	9929.5	9971.8
37.5°	6146.9	6168.0	6303.1	6885.7	7303.6	7117.9	7058.8	7388.1	8612.4	8679.9
40°	5530.5	5530.5	5530.5	5289.8	5277.2	6412.8	6379.1	6273.5	7438.7	7586.5
42.5°	4969.0	4981.7	4990.1	4382.2	4044.4	5543.1	5467.2	5306.7	6387.5	6560.6
45°	4390.6	4411.7	4437.1	3664.5	3516.7	3989.5	4627.0	4449.7	5348.9	5572.7
47.5°	2680.8	2714.6	3288.7	3107.2	3124.1	3077.7	3774.2	3744.7	4386.4	4703.0
50°	1811.1	1823.8	1878.7	1971.6	2680.8	2419.1	2672.4	3098.8	3331.0	3812.2
52.5°	1519.8	1540.9	1405.8	1279.2	1760.5	1891.3	1866.0	2300.9	2393.7	2989.0
55°	1068.1	1135.6	1072.3	1059.7	1000.6	1469.2	1414.3	1768.9	1828.0	2271.3
57.5°	109.8	126.7	219.5	789.5	654.4	831.7	1009.0	1296.1	1355.2	1676.0
60°	8.4	8.4	21.1	109.8	477.1	498.2	696.6	797.9	911.9	1169.4
62.5°	0.0	4.2	8.4	16.9	76.0	266.0	350.4	418.0	548.8	755.7
65°	0.0	0.0	4.2	12.7	16.9	101.3	135.1	219.5	299.7	468.6
67.5°	0.0	0.0	4.2	8.4	12.7	25.3	46.4	80.2	160.4	266.0
70°	0.0	0.0	4.2	8.4	12.7	21.1	33.8	50.7	71.8	143.5
72.5°	0.0	0.0	4.2	4.2	8.4	21.1	25.3	33.8	50.7	71.8
75°	0.0	0.0	4.2	4.2	12.7	25.3	21.1	25.3	33.8	46.4
77.5°	0.0	0.0	4.2	8.4	12.7	25.3	21.1	25.3	25.3	29.6
80°	0.0	0.0	4.2	8.4	16.9	29.6	25.3	25.3	21.1	21.1
82.5°	0.0	0.0	4.2	12.7	16.9	38.0	38.0	33.8	16.9	12.7
85°	0.0	0.0	8.4	16.9	25.3	42.2	42.2	33.8	12.7	8.4
87.5°	0.0	0.0	8.4	12.7	21.1	29.6	42.2	33.8	12.7	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638056

CATALOG NUMBER: IFLD-S-SA6E-722-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
22814.3	0°	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3	22814.3
22742.5	2.5°	22856.5	22831.2	22915.6	22949.4	22995.8	22818.5	22708.8	22713.0	22510.3
22485.0	5°	22620.1	22624.3	22734.1	22725.6	22772.1	22675.0	22632.8	22561.0	22383.7
22159.9	7.5°	22320.4	22282.4	22387.9	22468.1	22349.9	22417.5	22320.4	22354.1	22248.6
21872.9	10°	22088.2	21999.5	22096.6	22151.5	22155.7	22088.2	21995.3	21906.6	21868.6
21425.3	12.5°	21573.1	21459.1	21623.8	21699.8	21687.1	21556.2	21450.7	21471.8	21349.4
20640.1	15°	20863.9	20868.1	20986.3	21058.1	20990.5	20961.0	20969.4	20918.7	20813.2
19555.1	17.5°	19778.9	19842.2	20154.6	20327.7	20365.7	20306.6	20277.0	20217.9	20112.4
17824.2	20°	17972.0	18351.9	18909.2	19445.4	19550.9	19534.0	19428.5	19403.1	19344.0
16110.2	22.5°	16384.6	16667.4	17313.4	18149.3	18579.9	18622.1	18495.5	18457.5	18394.1
14577.7	25°	14742.3	15046.3	15628.9	16536.6	17427.4	17608.9	17587.8	17473.8	17406.2
13218.3	27.5°	13357.6	13661.6	14189.3	15008.3	15962.4	16545.0	16599.9	16418.4	16414.1
12006.6	30°	12108.0	12525.9	12927.0	13594.0	14518.6	15392.5	15485.4	15358.7	15371.4
10896.3	32.5°	11128.5	11474.7	11816.7	12264.2	13032.5	14050.0	14413.0	14294.8	14248.4
9971.8	35°	10128.0	10364.4	10714.8	11124.3	11647.8	12656.8	13285.8	13197.2	13150.7
8722.1	37.5°	8988.1	9393.4	9646.7	10106.9	10516.4	11318.5	12205.1	12192.4	12095.3
7658.2	40°	7818.7	8245.1	8629.2	9093.6	9410.3	10047.7	11031.4	11027.2	11039.9
6556.4	42.5°	6759.0	7151.6	7616.0	8122.6	8426.6	8891.0	9946.4	10005.5	10077.3
5648.7	45°	5800.7	6155.3	6585.9	7202.3	7569.6	7835.6	8772.8	9043.0	9038.8
4838.1	47.5°	4939.4	5273.0	5636.0	6235.5	6704.1	6944.8	7721.6	8105.7	8080.4
3968.4	50°	4145.8	4441.3	4821.2	5256.1	5885.1	6096.2	6674.6	7181.2	7143.2
3162.1	52.5°	3335.2	3744.7	4065.5	4462.4	5125.2	5332.1	5779.6	6273.5	6244.0
2372.6	55°	2600.6	2997.4	3385.8	3727.8	4285.1	4593.3	4914.1	5420.7	5412.3
1857.6	57.5°	1967.3	2402.2	2769.5	3094.5	3537.8	3917.8	4175.3	4635.5	4694.6
1270.7	60°	1456.5	1790.0	2186.9	2549.9	2900.3	3293.0	3466.1	3917.8	3943.1
869.7	62.5°	992.1	1359.4	1747.8	2077.1	2338.8	2744.1	2900.3	3271.9	3318.3
557.3	65°	688.1	924.6	1367.8	1604.3	1925.1	2271.3	2427.5	2723.0	2815.9
320.9	67.5°	455.9	658.6	1068.1	1283.4	1600.0	1836.5	2034.9	2275.5	2376.8
202.6	70°	249.1	485.5	764.1	1013.2	1287.6	1515.6	1709.8	1904.0	1992.7
92.9	72.5°	168.9	325.1	531.9	802.1	1038.5	1262.3	1435.4	1578.9	1583.2
54.9	75°	84.4	219.5	405.3	620.6	810.6	1030.1	1186.3	1270.7	1169.4
33.8	77.5°	50.7	160.4	329.3	498.2	658.6	831.7	920.3	966.8	802.1
25.3	80°	29.6	114.0	257.5	396.8	455.9	612.2	696.6	709.3	536.2
16.9	82.5°	21.1	84.4	202.6	291.3	278.6	430.6	523.5	506.6	342.0
12.7	85°	12.7	59.1	126.7	181.5	168.9	282.9	304.0	312.4	198.4
8.4	87.5°	8.4	33.8	67.5	97.1	80.2	122.4	122.4	147.8	97.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22814.3
22248.6
22341.5
22071.3
21699.8
21243.8
20707.7
20065.9
19208.9
18377.2
17334.5
16405.7
15308.0
14252.6
13087.4
12175.5
11039.9
10039.3
9047.2
8088.9
7177.0
6307.3
5433.4
4669.2
3981.1
3326.7
2794.8
2364.2
1958.9
1545.2
1093.4
772.6
502.4
316.6
181.5
84.4
0.0

(END OF REPORT)