

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: P638141

Luminaire Tested: **IFLD-S-SA6C-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638141
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31523.1 lumens
Efficiency: N/A
Efficacy: 98.1 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): 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

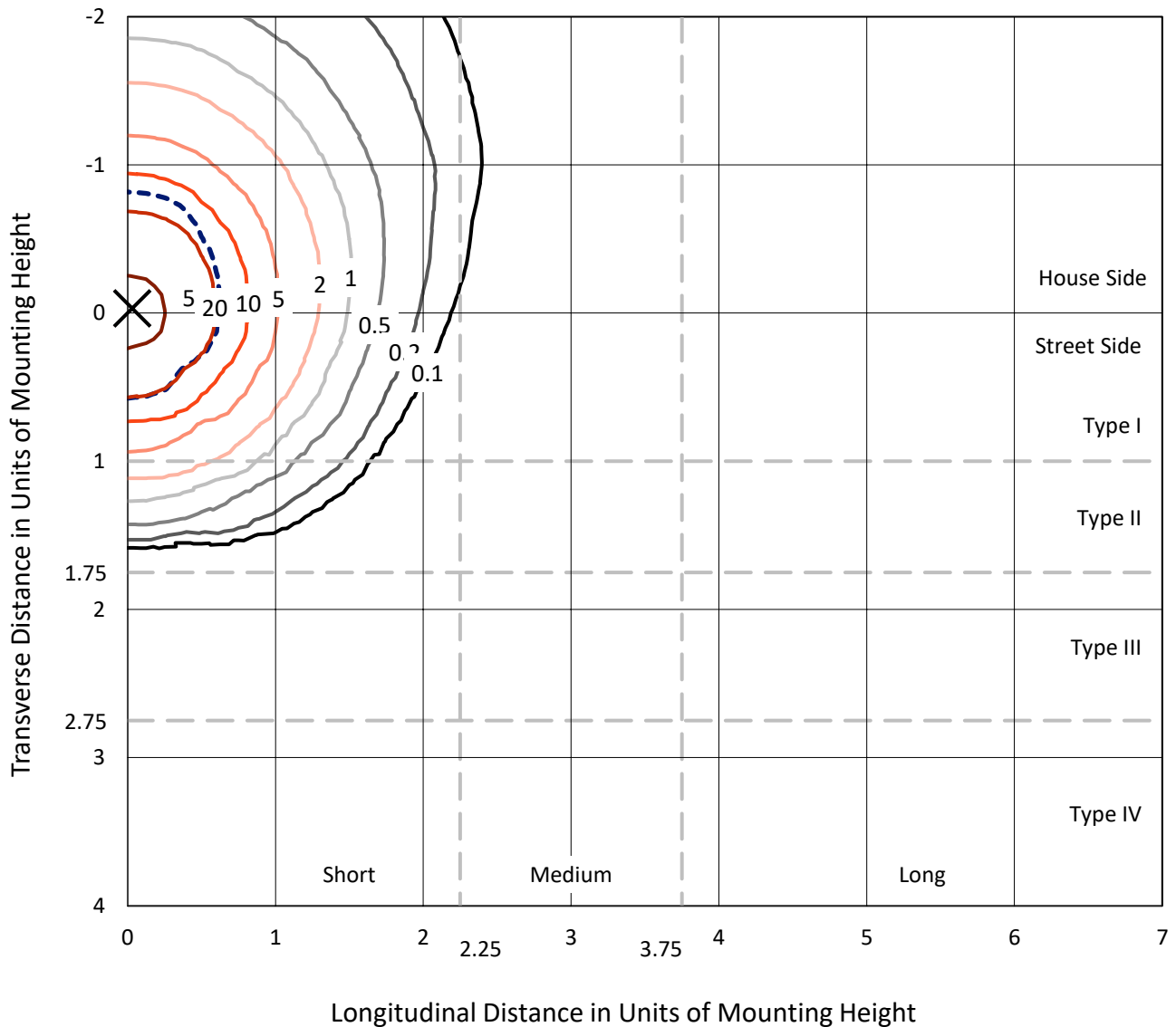




REPORT NUMBER: P638141
 CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

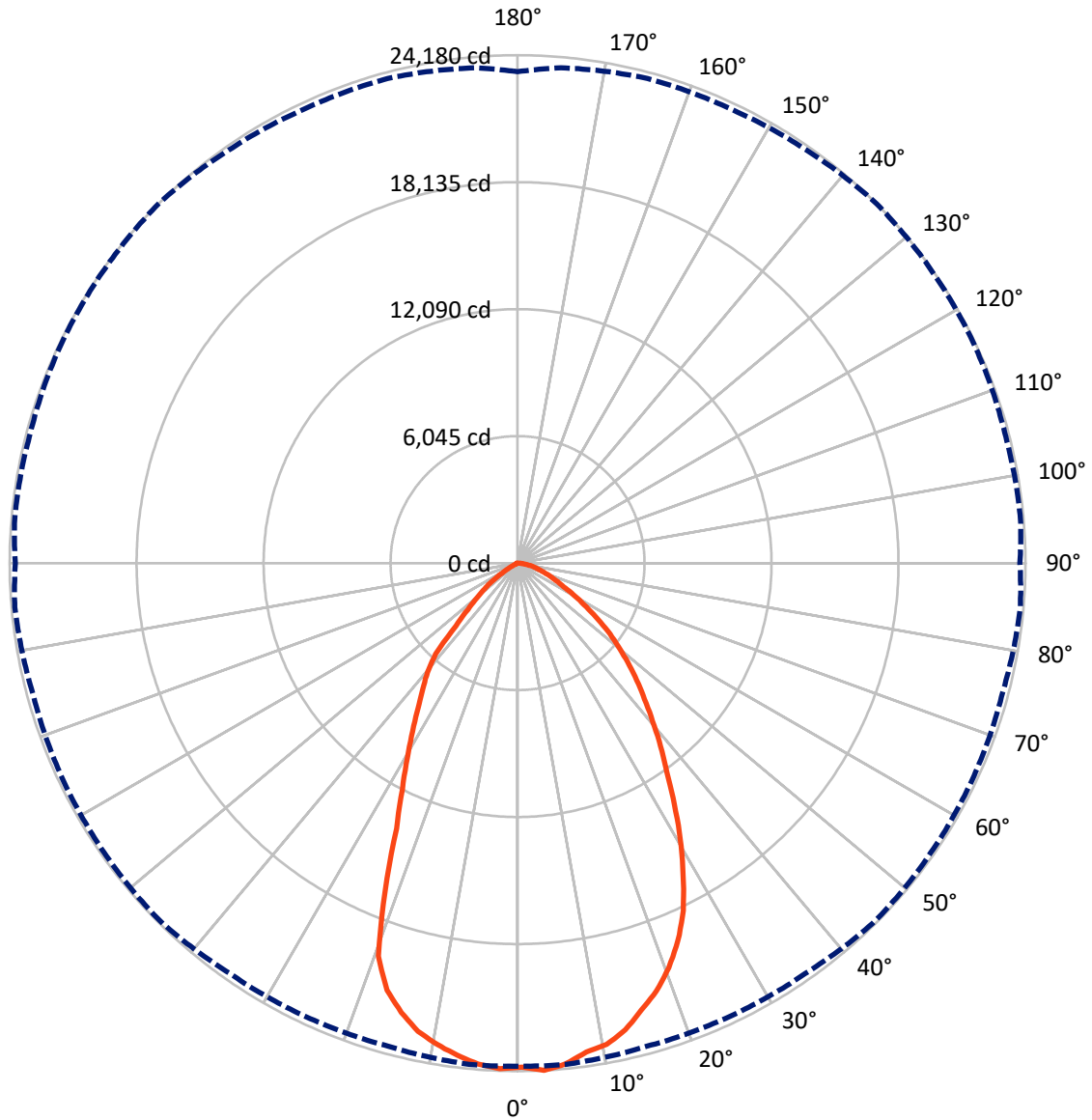
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60 fc
 Type I - Short - N/A

REPORT NUMBER: P638141
CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638141

CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18669.6	0.0	18669.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12853.5	0.0	12853.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	31523.1	0.0	31523.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2249.8	7.1
10°-20°	6033.0	19.1
20°-30°	7357.5	23.3
30°-40°	6717.3	21.3
40°-50°	4854.5	15.4
50°-60°	2650.6	8.4
60°-70°	1095.9	3.5
70°-80°	443.8	1.4
80°-90°	120.7	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°	31523.1	100.0
0°-180°	31523.1	100.0



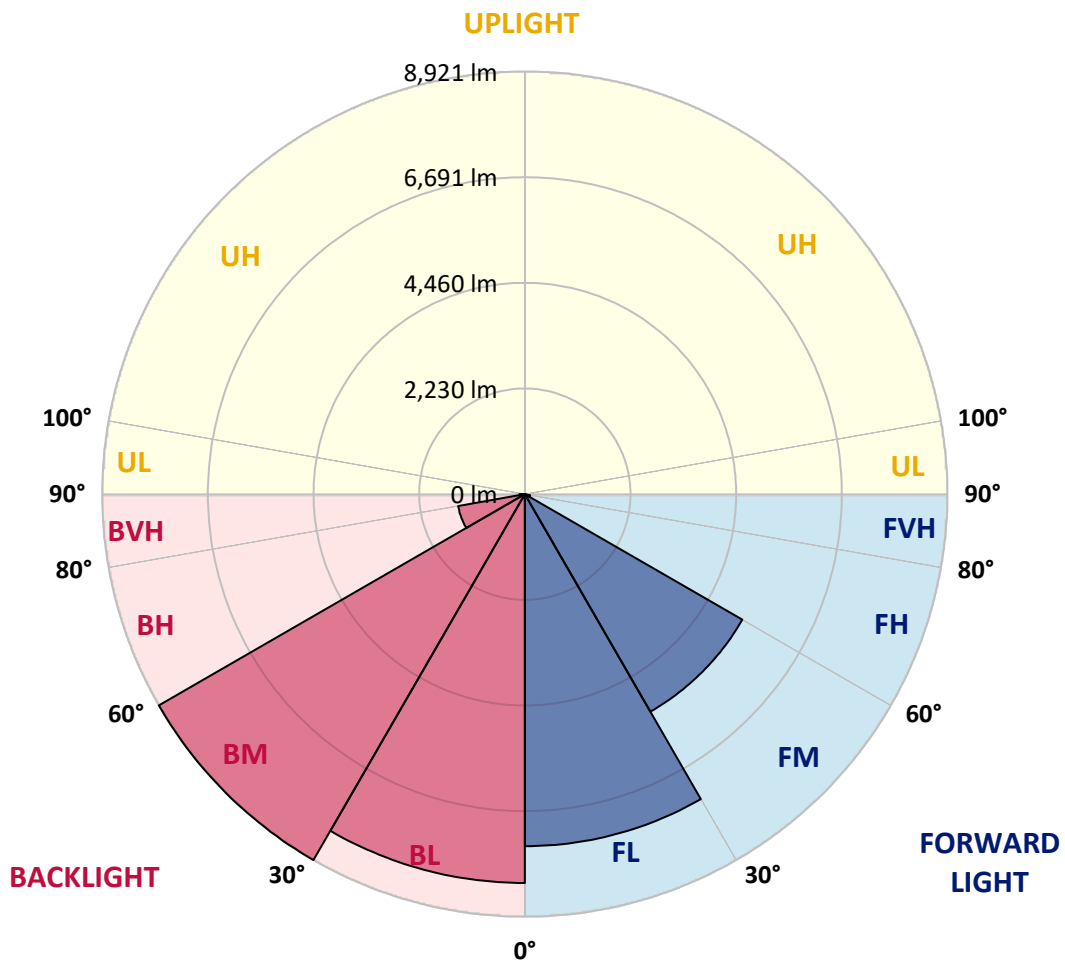
REPORT NUMBER: P638141
 CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7431.2	23.6			
FM (30°-60°)	5301.6	16.8			
FH (60°-80°)	111.1	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	8209.1	26.0	B5		
BM (30°-60°)	8920.8	28.3	B5		
BH (60°-80°)	1428.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	111.1	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: P638141
 CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0
2.5°	23944.6	23975.7	23807.0	23824.8	23855.8	24082.2	24024.5	23971.3	23895.8	24024.5
5°	23913.5	23931.3	23753.7	23691.6	23718.2	23922.4	23736.0	23736.0	23718.2	23696.0
7.5°	23673.8	23682.7	23545.1	23434.1	23505.1	23598.4	23460.8	23527.3	23429.7	23505.1
10°	23314.3	23256.6	23092.3	23061.2	23141.1	23229.9	23136.7	23198.8	23110.1	23167.8
12.5°	22786.0	22697.2	22564.1	22524.1	22661.7	22781.6	22706.1	22670.6	22555.2	22697.2
15°	20748.5	20681.9	20983.7	21512.0	21987.0	22089.1	22009.2	22044.7	21805.0	21844.9
17.5°	17077.3	16953.0	17277.1	18528.9	20313.4	21254.5	21183.5	20952.7	20597.5	20677.4
20°	15519.2	15483.7	15448.1	15745.6	16993.0	19847.3	19945.0	19359.0	18852.9	18742.0
22.5°	14640.2	14626.9	14591.4	14658.0	14986.5	16819.8	17938.5	17396.9	17059.5	17028.5
25°	13836.7	13814.5	13708.0	13792.4	13792.4	13898.9	15332.7	15661.2	15363.8	15328.3
27.5°	13019.9	12980.0	12962.2	13002.2	12798.0	12078.8	12442.9	14045.4	13890.0	13898.9
30°	12136.6	12123.2	12074.4	12158.8	11528.4	10636.1	10405.3	12580.5	12611.5	12602.7
32.5°	10822.6	10880.3	11102.2	11195.5	10156.7	9419.8	9033.6	10884.7	11519.5	11506.2
35°	7861.7	7861.7	8585.3	9930.3	8900.4	8345.5	8136.9	9228.9	10440.8	10485.2
37.5°	6463.4	6485.6	6627.6	7240.2	7679.7	7484.4	7422.2	7768.5	9055.8	9126.8
40°	5815.2	5815.2	5815.2	5562.2	5548.9	6743.0	6707.5	6596.5	7821.7	7977.1
42.5°	5224.8	5238.2	5247.0	4607.8	4252.7	5828.6	5748.7	5580.0	6716.4	6898.4
45°	4616.7	4638.9	4665.5	3853.2	3697.8	4195.0	4865.3	4678.8	5624.4	5859.6
47.5°	2818.8	2854.4	3458.1	3267.2	3284.9	3236.1	3968.6	3937.5	4612.2	4945.2
50°	1904.4	1917.7	1975.4	2073.1	2818.8	2543.6	2810.0	3258.3	3502.5	4008.5
52.5°	1598.1	1620.3	1478.2	1345.1	1851.1	1988.7	1962.1	2419.3	2517.0	3142.9
55°	1123.1	1194.1	1127.5	1114.2	1052.1	1544.8	1487.1	1860.0	1922.1	2388.2
57.5°	115.4	133.2	230.8	830.1	688.1	874.5	1061.0	1362.8	1425.0	1762.3
60°	8.9	8.9	22.2	115.4	501.6	523.8	732.5	839.0	958.9	1229.6
62.5°	0.0	4.4	8.9	17.8	79.9	279.7	368.4	439.5	577.1	794.6
65°	0.0	0.0	4.4	13.3	17.8	106.5	142.1	230.8	315.2	492.7
67.5°	0.0	0.0	4.4	8.9	13.3	26.6	48.8	84.3	168.7	279.7
70°	0.0	0.0	4.4	8.9	13.3	22.2	35.5	53.3	75.5	150.9
72.5°	0.0	0.0	4.4	4.4	8.9	22.2	26.6	35.5	53.3	75.5
75°	0.0	0.0	4.4	4.4	13.3	26.6	22.2	26.6	35.5	48.8
77.5°	0.0	0.0	4.4	8.9	13.3	26.6	22.2	26.6	26.6	31.1
80°	0.0	0.0	4.4	8.9	17.8	31.1	26.6	26.6	22.2	22.2
82.5°	0.0	0.0	4.4	13.3	17.8	40.0	40.0	35.5	17.8	13.3
85°	0.0	0.0	8.9	17.8	26.6	44.4	44.4	35.5	13.3	8.9
87.5°	0.0	0.0	8.9	13.3	22.2	31.1	44.4	35.5	13.3	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638141

CATALOG NUMBER: IFLD-S-SA6C-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23989.0	0°	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0	23989.0
23913.5	2.5°	24033.4	24006.8	24095.6	24131.1	24179.9	23993.5	23878.0	23882.5	23669.4
23642.8	5°	23784.8	23789.3	23904.7	23895.8	23944.6	23842.5	23798.1	23722.7	23536.2
23300.9	7.5°	23469.6	23429.7	23540.7	23625.0	23500.7	23571.7	23469.6	23505.1	23394.2
22999.1	10°	23225.5	23132.3	23234.4	23292.1	23296.5	23225.5	23127.8	23034.6	22994.6
22528.5	12.5°	22683.9	22564.1	22737.2	22817.1	22803.8	22666.2	22555.2	22577.4	22448.6
21702.9	15°	21938.1	21942.6	22066.9	22142.3	22071.3	22040.2	22049.1	21995.8	21884.9
20562.0	17.5°	20797.3	20863.9	21192.4	21374.4	21414.3	21352.2	21321.1	21259.0	21148.0
18742.0	20°	18897.3	19296.9	19882.8	20446.6	20557.6	20539.8	20428.8	20402.2	20340.1
16939.7	22.5°	17228.2	17525.7	18204.8	19083.8	19536.6	19581.0	19447.8	19407.8	19341.3
15328.3	25°	15501.4	15821.0	16433.6	17388.0	18324.7	18515.6	18493.4	18373.5	18302.5
13898.9	27.5°	14045.4	14365.0	14919.9	15781.1	16784.3	17396.9	17454.6	17263.7	17259.3
12624.9	30°	12731.4	13170.9	13592.6	14294.0	15266.1	16185.0	16282.7	16149.5	16162.8
11457.4	32.5°	11701.5	12065.5	12425.1	12895.6	13703.6	14773.4	15155.2	15030.9	14982.0
10485.2	35°	10649.5	10898.0	11266.5	11697.1	12247.5	13308.5	13969.9	13876.7	13827.9
9171.2	37.5°	9450.9	9877.0	10143.4	10627.3	11057.9	11901.3	12833.5	12820.2	12718.1
8052.6	40°	8221.3	8669.6	9073.6	9561.9	9894.8	10565.1	11599.4	11595.0	11608.3
6894.0	42.5°	7107.0	7519.9	8008.2	8540.9	8860.5	9348.8	10458.6	10520.7	10596.2
5939.5	45°	6099.4	6472.2	6925.0	7573.1	7959.3	8239.0	9224.5	9508.6	9504.2
5087.2	47.5°	5193.8	5544.5	5926.2	6556.6	7049.3	7302.4	8119.2	8523.1	8496.5
4172.8	50°	4359.2	4670.0	5069.5	5526.7	6188.1	6410.1	7018.3	7550.9	7511.0
3324.9	52.5°	3506.9	3937.5	4274.9	4692.2	5389.1	5606.6	6077.2	6596.5	6565.5
2494.8	55°	2734.5	3151.8	3560.2	3919.7	4505.7	4829.8	5167.1	5699.8	5691.0
1953.2	57.5°	2068.6	2525.9	2912.1	3253.9	3720.0	4119.5	4390.3	4874.2	4936.3
1336.2	60°	1531.5	1882.2	2299.5	2681.2	3049.7	3462.5	3644.5	4119.5	4146.1
914.5	62.5°	1043.2	1429.4	1837.8	2184.0	2459.3	2885.4	3049.7	3440.3	3489.1
586.0	65°	723.6	972.2	1438.3	1686.9	2024.2	2388.2	2552.5	2863.2	2960.9
337.4	67.5°	479.4	692.5	1123.1	1349.5	1682.4	1931.0	2139.7	2392.7	2499.2
213.1	70°	261.9	510.5	803.5	1065.4	1353.9	1593.6	1797.8	2002.0	2095.3
97.7	72.5°	177.6	341.8	559.3	843.4	1092.0	1327.3	1509.3	1660.2	1664.7
57.7	75°	88.8	230.8	426.2	652.6	852.3	1083.1	1247.4	1336.2	1229.6
35.5	77.5°	53.3	168.7	346.3	523.8	692.5	874.5	967.7	1016.6	843.4
26.6	80°	31.1	119.9	270.8	417.3	479.4	643.7	732.5	745.8	563.8
17.8	82.5°	22.2	88.8	213.1	306.3	293.0	452.8	550.5	532.7	359.6
13.3	85°	13.3	62.1	133.2	190.9	177.6	297.4	319.6	328.5	208.6
8.9	87.5°	8.9	35.5	71.0	102.1	84.3	128.7	128.7	155.4	102.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23989.0
23394.2
23491.8
23207.7
22817.1
22337.7
21773.9
21099.1
20198.0
19323.5
18227.0
17250.4
16096.3
14986.5
13761.3
12802.4
11608.3
10556.2
9513.0
8505.4
7546.5
6632.0
5713.1
4909.7
4186.1
3498.0
2938.7
2485.9
2059.8
1624.7
1149.7
812.4
528.3
332.9
190.9
88.8
0.0

(END OF REPORT)