

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: P638214

Luminaire Tested: **IFLD-L-SA8C-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638214
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39862.3 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

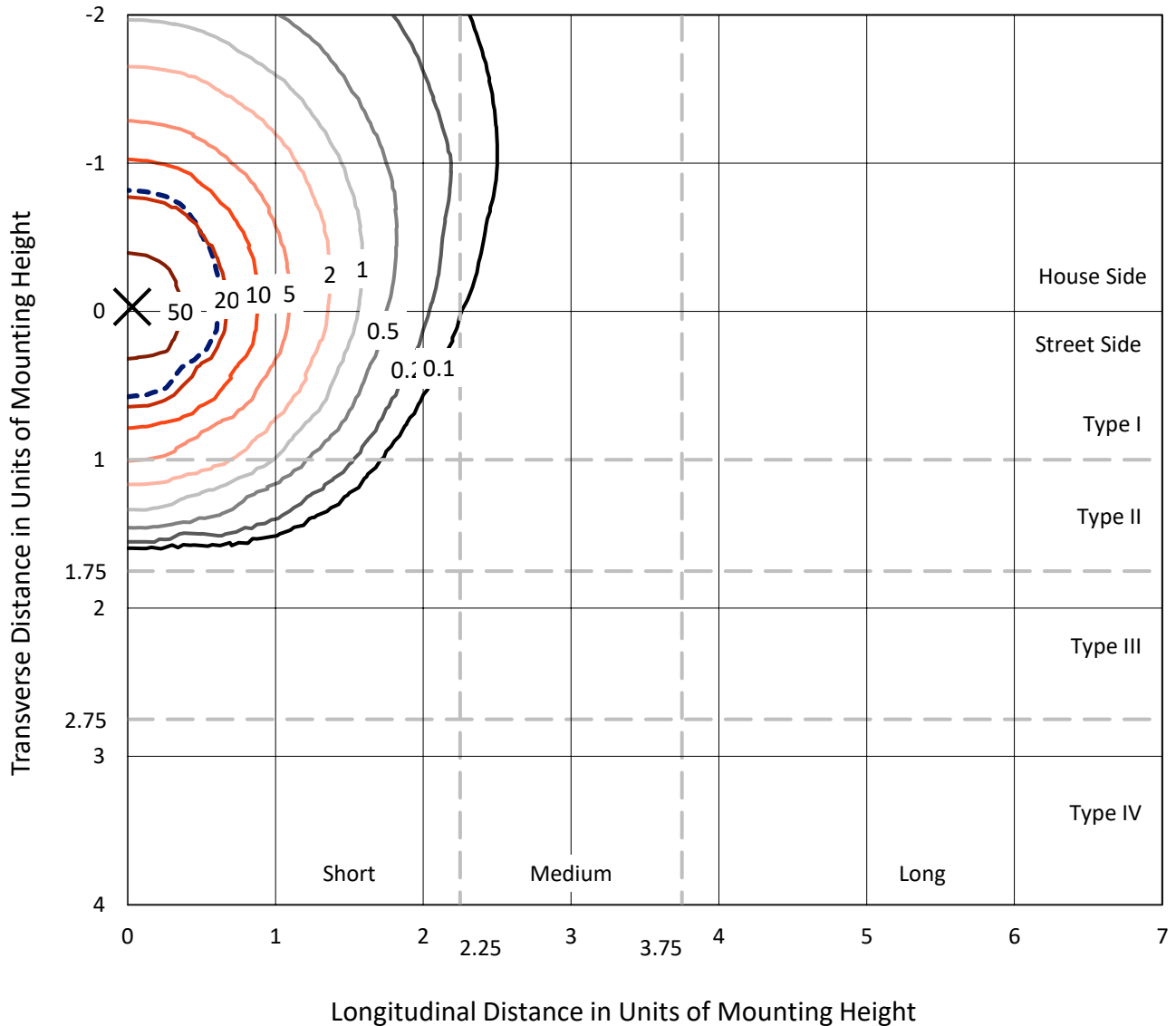
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638214
 CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

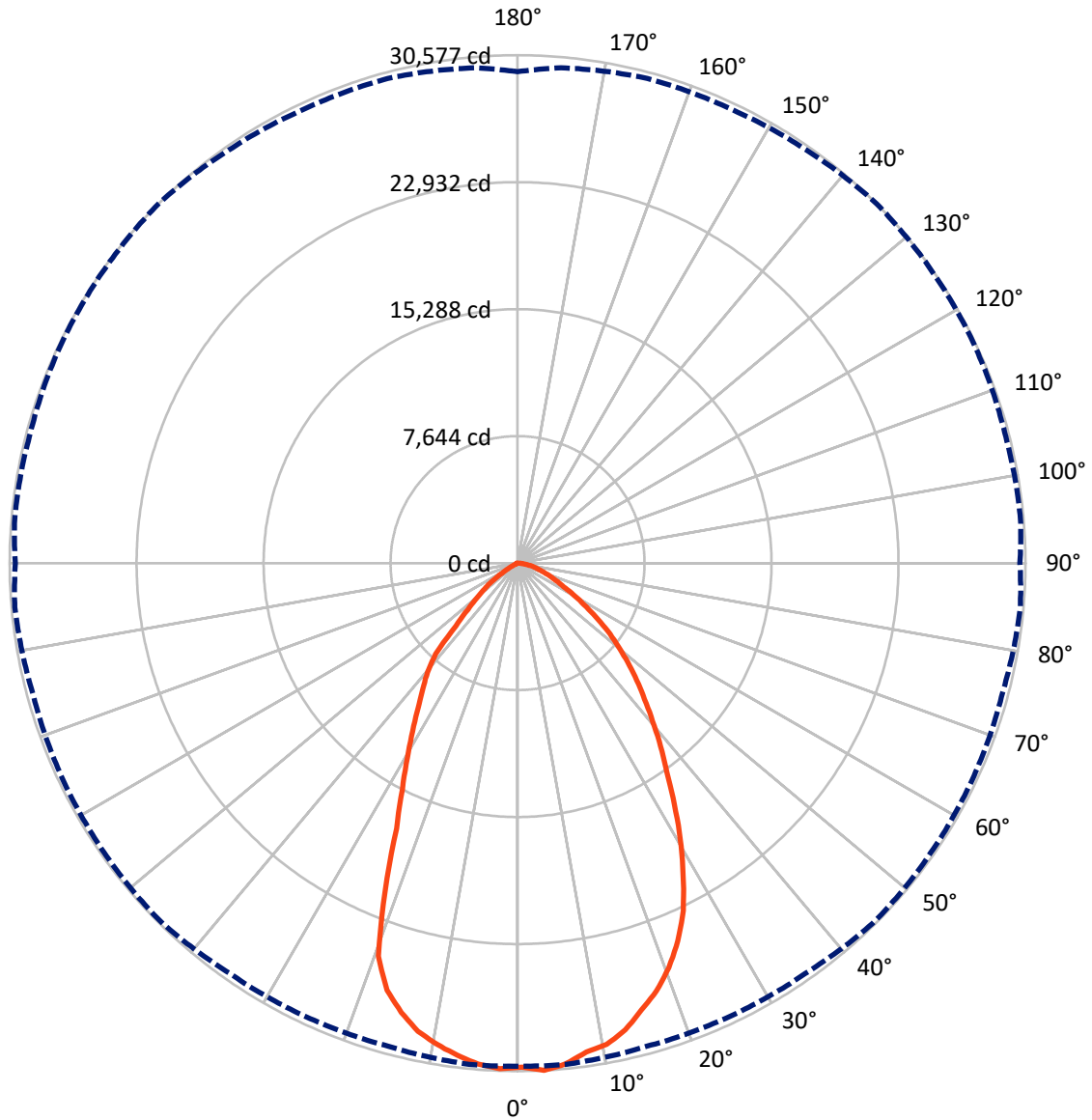
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 75.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638214
CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638214

CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23608.5	0.0	23608.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	16253.8	0.0	16253.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	39862.3	0.0	39862.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2844.9	7.1
10°-20°	7628.9	19.1
20°-30°	9303.9	23.3
30°-40°	8494.4	21.3
40°-50°	6138.7	15.4
50°-60°	3351.8	8.4
60°-70°	1385.8	3.5
70°-80°	561.3	1.4
80°-90°	152.7	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°	39862.3	100.0
0°-180°	39862.3	100.0



REPORT NUMBER: P638214

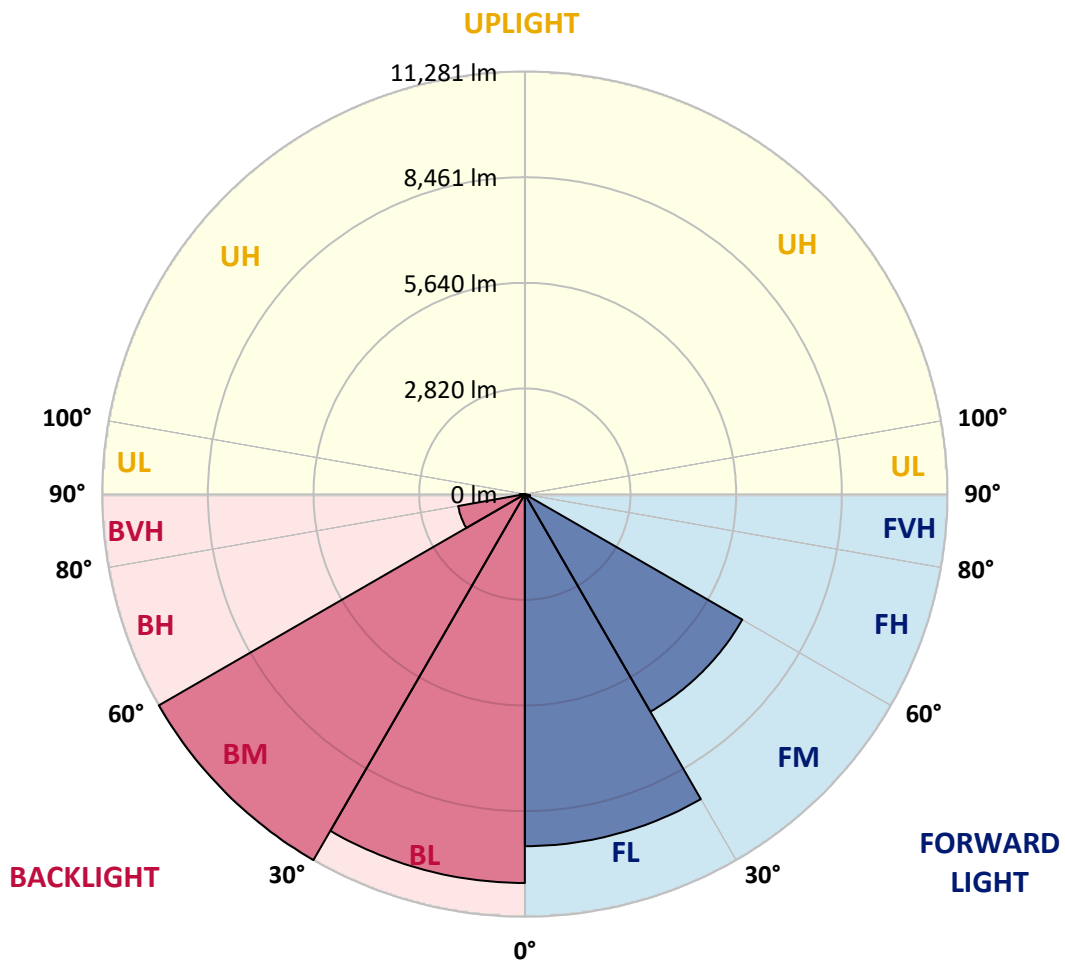
CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9397.0	23.6			
FM (30°-60°)	6704.1	16.8			
FH (60°-80°)	140.5	0.4			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	10380.7	26.0	B5		
BM (30°-60°)	11280.7	28.3	B5		
BH (60°-80°)	1806.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	140.4	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: P638214
 CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1
2.5°	30279.0	30318.3	30105.0	30127.4	30166.7	30453.0	30380.0	30312.7	30217.2	30380.0
5°	30239.7	30262.1	30037.6	29959.0	29992.7	30250.9	30015.2	30015.2	29992.7	29964.6
7.5°	29936.6	29947.8	29773.8	29633.4	29723.3	29841.1	29667.1	29751.3	29627.8	29723.3
10°	29481.9	29408.9	29201.2	29161.9	29263.0	29375.2	29257.3	29335.9	29223.7	29296.6
12.5°	28813.9	28701.6	28533.2	28482.7	28656.7	28808.3	28712.8	28667.9	28522.0	28701.6
15°	26237.3	26153.1	26534.8	27202.8	27803.5	27932.6	27831.5	27876.4	27573.3	27623.8
17.5°	21595.0	21437.8	21847.6	23430.6	25687.2	26877.2	26787.4	26495.5	26046.4	26147.5
20°	19624.6	19579.7	19534.8	19910.9	21488.3	25097.8	25221.3	24480.3	23840.4	23700.0
22.5°	18513.2	18496.3	18451.4	18535.6	18951.0	21269.4	22684.0	21999.1	21572.5	21533.2
25°	17497.1	17469.1	17334.4	17441.0	17441.0	17575.7	19388.9	19804.3	19428.2	19383.3
27.5°	16464.3	16413.7	16391.3	16441.8	16183.6	15274.2	15734.5	17761.0	17564.5	17575.7
30°	15347.2	15330.4	15268.6	15375.3	14578.1	13449.8	13157.9	15908.5	15947.8	15936.6
32.5°	13685.6	13758.6	14039.3	14157.1	12843.6	11911.8	11423.4	13764.2	14566.9	14550.1
35°	9941.4	9941.4	10856.4	12557.3	11255.0	10553.3	10289.5	11670.4	13202.9	13259.0
37.5°	8173.2	8201.3	8380.9	9155.5	9711.3	9464.3	9385.7	9823.5	11451.5	11541.3
40°	7353.6	7353.6	7353.6	7033.7	7016.8	8526.8	8481.9	8341.6	9890.9	10087.4
42.5°	6607.0	6623.9	6635.1	5826.8	5377.7	7370.5	7269.4	7056.1	8493.2	8723.3
45°	5838.0	5866.1	5899.7	4872.5	4676.0	5304.7	6152.3	5916.6	7112.2	7409.8
47.5°	3564.5	3609.5	4372.9	4131.5	4154.0	4092.2	5018.4	4979.1	5832.4	6253.4
50°	2408.2	2425.0	2498.0	2621.5	3564.5	3216.5	3553.3	4120.3	4429.0	5069.0
52.5°	2020.8	2048.9	1869.3	1700.9	2340.8	2514.8	2481.1	3059.3	3182.8	3974.3
55°	1420.2	1510.0	1425.8	1409.0	1330.4	1953.5	1880.5	2352.0	2430.6	3020.0
57.5°	145.9	168.4	291.9	1049.7	870.1	1105.9	1341.6	1723.3	1801.9	2228.5
60°	11.2	11.2	28.1	145.9	634.3	662.4	926.2	1060.9	1212.5	1554.9
62.5°	0.0	5.6	11.2	22.5	101.0	353.6	465.9	555.7	729.7	1004.8
65°	0.0	0.0	5.6	16.8	22.5	134.7	179.6	291.9	398.6	623.1
67.5°	0.0	0.0	5.6	11.2	16.8	33.7	61.7	106.7	213.3	353.6
70°	0.0	0.0	5.6	11.2	16.8	28.1	44.9	67.4	95.4	190.9
72.5°	0.0	0.0	5.6	5.6	11.2	28.1	33.7	44.9	67.4	95.4
75°	0.0	0.0	5.6	5.6	16.8	33.7	28.1	33.7	44.9	61.7
77.5°	0.0	0.0	5.6	11.2	16.8	33.7	28.1	33.7	33.7	39.3
80°	0.0	0.0	5.6	11.2	22.5	39.3	33.7	33.7	28.1	28.1
82.5°	0.0	0.0	5.6	16.8	22.5	50.5	50.5	44.9	22.5	16.8
85°	0.0	0.0	11.2	22.5	33.7	56.1	56.1	44.9	16.8	11.2
87.5°	0.0	0.0	11.2	16.8	28.1	39.3	56.1	44.9	16.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638214

CATALOG NUMBER: IFLD-L-SA8C-750-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
30335.1	0°	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1	30335.1
30239.7	2.5°	30391.3	30357.6	30469.8	30514.8	30576.5	30340.7	30194.8	30200.4	29931.0
29897.3	5°	30076.9	30082.5	30228.5	30217.2	30279.0	30149.9	30093.7	29998.3	29762.5
29465.0	7.5°	29678.3	29627.8	29768.2	29874.8	29717.6	29807.5	29678.3	29723.3	29582.9
29083.3	10°	29369.6	29251.7	29380.8	29453.8	29459.4	29369.6	29246.1	29128.2	29077.7
28488.3	12.5°	28684.8	28533.2	28752.1	28853.2	28836.3	28662.3	28522.0	28550.0	28387.3
27444.2	15°	27741.7	27747.3	27904.5	27999.9	27910.1	27870.8	27882.0	27814.7	27674.3
26001.5	17.5°	26299.0	26383.2	26798.6	27028.8	27079.3	27000.7	26961.4	26882.8	26742.5
23700.0	20°	23896.5	24401.7	25142.7	25855.6	25995.9	25973.5	25833.1	25799.4	25720.9
21421.0	22.5°	21785.8	22161.9	23020.8	24132.3	24704.8	24761.0	24592.6	24542.0	24457.8
19383.3	25°	19602.2	20006.4	20781.0	21987.9	23172.3	23413.7	23385.7	23234.1	23144.3
17575.7	27.5°	17761.0	18165.1	18866.8	19955.8	21224.5	21999.1	22072.1	21830.7	21825.1
15964.7	30°	16099.4	16655.1	17188.4	18075.3	19304.7	20466.7	20590.2	20421.8	20438.6
14488.3	32.5°	14797.1	15257.4	15712.1	16307.1	17328.7	18681.6	19164.3	19007.2	18945.4
13259.0	35°	13466.7	13781.0	14247.0	14791.5	15487.5	16829.1	17665.5	17547.7	17485.9
11597.4	37.5°	11951.0	12489.9	12826.7	13438.6	13983.1	15049.7	16228.5	16211.7	16082.6
10182.8	40°	10396.1	10963.1	11473.9	12091.4	12512.4	13360.0	14668.0	14662.3	14679.2
8717.7	42.5°	8987.1	9509.2	10126.7	10800.3	11204.5	11821.9	13225.3	13303.9	13399.3
7510.8	45°	7712.9	8184.4	8757.0	9576.6	10064.9	10418.6	11664.8	12024.0	12018.4
6433.0	47.5°	6567.7	7011.2	7494.0	8291.1	8914.2	9234.1	10267.0	10777.8	10744.2
5276.6	50°	5512.4	5905.4	6410.6	6988.8	7825.2	8105.8	8874.9	9548.5	9498.0
4204.5	52.5°	4434.6	4979.1	5405.8	5933.4	6814.7	7089.8	7684.8	8341.6	8302.3
3154.8	55°	3457.9	3985.6	4502.0	4956.7	5697.7	6107.4	6534.1	7207.7	7196.5
2469.9	57.5°	2615.9	3194.1	3682.4	4114.7	4704.1	5209.3	5551.7	6163.6	6242.2
1689.7	60°	1936.6	2380.1	2907.8	3390.5	3856.4	4378.5	4608.6	5209.3	5243.0
1156.4	62.5°	1319.2	1807.5	2324.0	2761.8	3109.9	3648.7	3856.4	4350.4	4412.2
741.0	65°	915.0	1229.3	1818.8	2133.1	2559.7	3020.0	3227.7	3620.7	3744.2
426.6	67.5°	606.3	875.7	1420.2	1706.5	2127.5	2441.9	2705.7	3025.7	3160.4
269.4	70°	331.2	645.5	1016.0	1347.2	1712.1	2015.2	2273.5	2531.7	2649.6
123.5	72.5°	224.5	432.2	707.3	1066.6	1380.9	1678.4	1908.6	2099.4	2105.0
73.0	75°	112.3	291.9	538.9	825.2	1077.8	1369.7	1577.4	1689.7	1554.9
44.9	77.5°	67.4	213.3	437.8	662.4	875.7	1105.9	1223.7	1285.5	1066.6
33.7	80°	39.3	151.6	342.4	527.7	606.3	814.0	926.2	943.1	712.9
22.5	82.5°	28.1	112.3	269.4	387.3	370.5	572.6	696.1	673.6	454.7
16.8	85°	16.8	78.6	168.4	241.4	224.5	376.1	404.2	415.4	263.8
11.2	87.5°	11.2	44.9	89.8	129.1	106.7	162.8	162.8	196.5	129.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30335.1
29582.9
29706.4
29347.2
28853.2
28246.9
27534.0
26680.8
25541.2
24435.4
23048.9
21813.9
20354.4
18951.0
17401.7
16189.2
14679.2
13348.8
12029.6
10755.4
9542.9
8386.5
7224.5
6208.5
5293.5
4423.4
3716.1
3143.5
2604.6
2054.5
1453.9
1027.3
668.0
421.0
241.4
112.3
0.0

(END OF REPORT)