

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: P637948

Luminaire Tested: **IFLD-L-SA7C-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38236.3 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

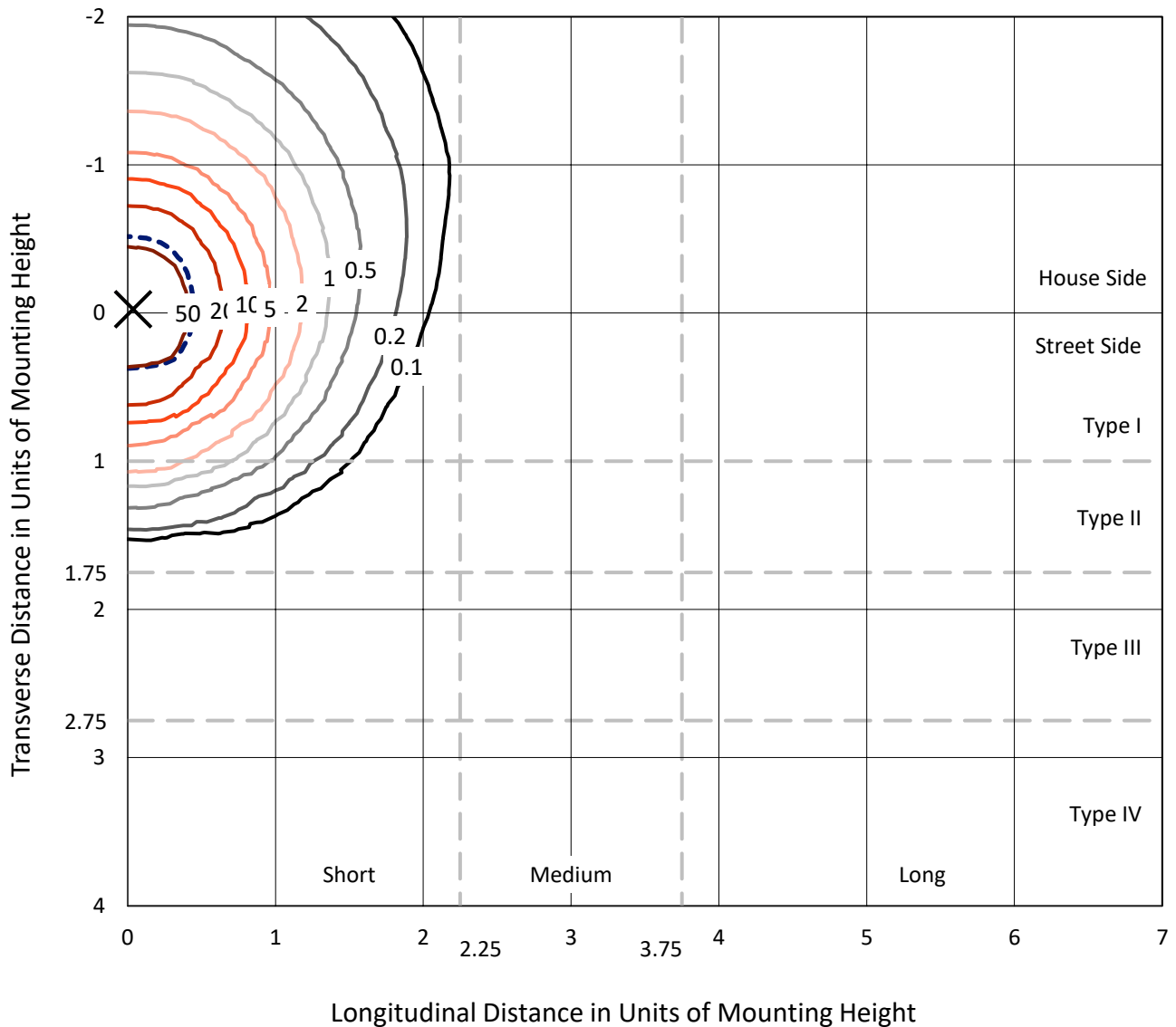
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

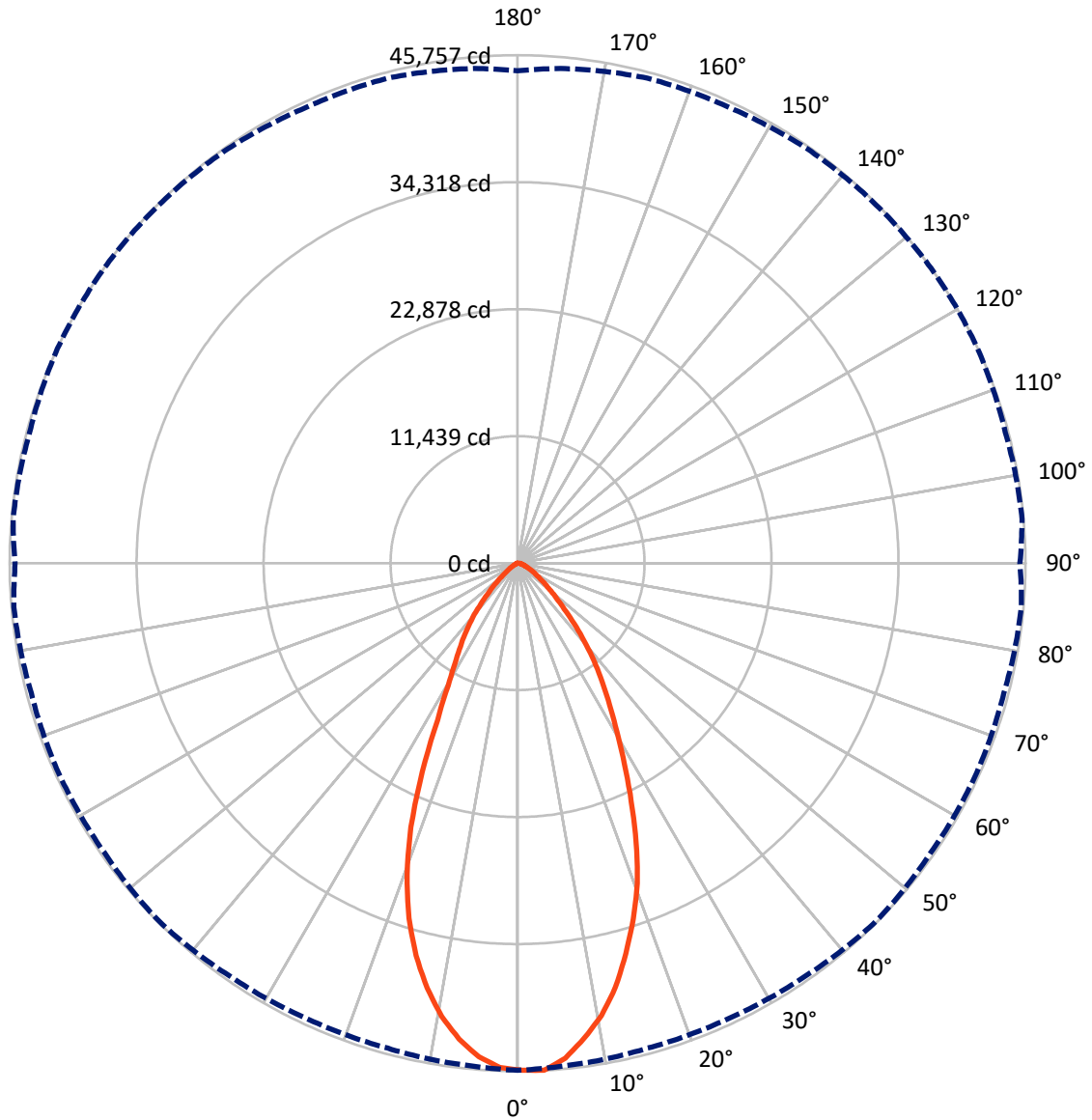
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 114.2 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	21696.8	0.0	21696.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16539.5	0.0	16539.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	38236.3	0.0	38236.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4148.2	10.8
10°-20°	9888.4	25.9
20°-30°	10071.1	26.3
30°-40°	7510.0	19.6
40°-50°	3923.4	10.3
50°-60°	1650.2	4.3
60°-70°	673.9	1.8
70°-80°	283.6	0.7
80°-90°	87.4	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°	38236.3	100.0
0°-180°	38236.3	100.0



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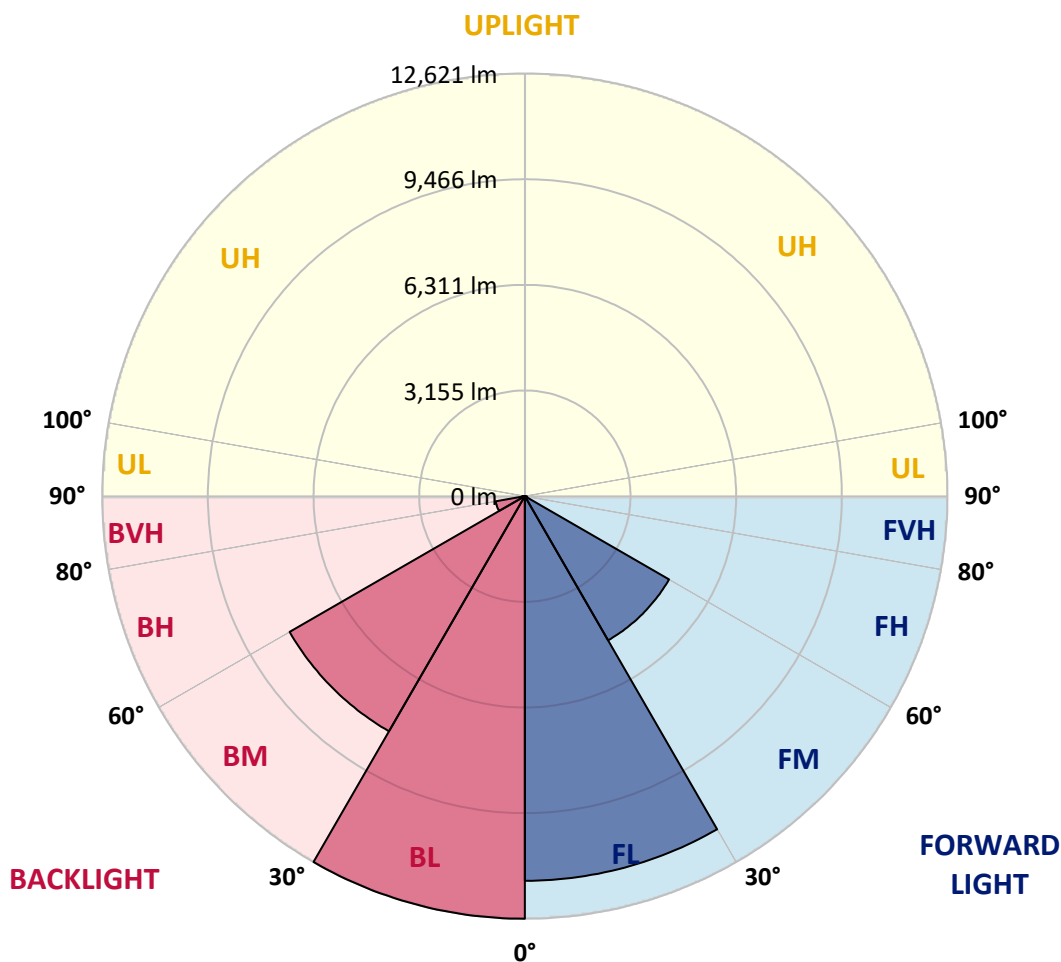
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11486.7	30.0			
FM (30°-60°)	4972.8	13.0			
FH (60°-80°)	71.9	0.2			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	12621.1	33.0	B5		
BM (30°-60°)	8110.9	21.2	B4/8500		
BH (60°-80°)	885.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	79.3	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°	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2
2.5°	45688.1	45501.4	45236.2	45211.6	45349.2	45648.8	45457.2	45467.0	45349.2	45550.5
5°	44971.0	44794.2	44612.4	44371.8	44573.1	44700.8	44602.6	44494.5	44342.3	44538.7
7.5°	43615.4	43517.1	43247.0	43138.9	43261.7	43404.2	43193.0	43163.5	42952.3	43207.7
10°	41542.6	41503.4	41238.1	41174.3	41282.3	41498.4	41405.1	41385.5	41252.9	41228.3
12.5°	39391.3	39239.1	38910.0	38890.4	39052.4	39376.6	39126.1	38885.4	38959.1	39023.0
15°	33851.0	33688.9	34504.3	35786.2	36459.1	36434.5	36508.2	36218.4	36130.0	36159.5
17.5°	26910.9	26635.8	26930.5	28914.8	32112.3	33968.9	33458.1	32834.3	32500.3	32279.3
20°	23227.1	23241.9	23187.9	23698.7	25692.8	29926.6	29803.8	28600.5	28163.3	27981.6
22.5°	20987.4	20903.9	20786.1	20948.1	21483.5	23968.8	25633.8	24528.7	24376.5	24175.1
25°	18791.9	18791.9	18649.5	18811.6	18963.8	18998.2	20668.2	21120.0	20825.4	20825.4
27.5°	16891.1	16792.9	16729.0	16802.7	16601.3	15633.7	15844.9	18158.3	17957.0	17834.2
30°	15005.1	14975.6	14867.5	14965.8	14219.2	13128.8	12686.8	15324.3	15535.5	15491.3
32.5°	12387.2	12505.0	12986.4	13138.6	11861.6	10982.4	10560.0	12721.1	13565.9	13531.6
35°	8418.6	8516.8	9066.9	10884.2	9833.1	9204.4	9081.6	10118.0	11508.0	11640.6
37.5°	6704.4	6689.7	6846.8	7171.0	7902.8	7750.6	7716.2	7986.3	9386.1	9445.1
40°	5525.6	5505.9	5501.0	5235.8	5054.1	6444.1	6350.7	6188.7	7401.8	7519.7
42.5°	4454.9	4474.5	4489.2	3909.7	3644.4	4970.6	4916.6	4749.6	5805.6	5943.1
45°	3497.1	3492.2	3521.6	2912.6	2838.9	3177.8	3673.9	3541.3	4381.2	4528.5
47.5°	1812.4	1876.2	2274.1	2254.4	2288.8	2254.4	2780.0	2745.6	3295.7	3531.5
50°	1218.1	1237.7	1272.1	1277.0	1802.6	1660.1	1886.1	2136.6	2308.5	2671.9
52.5°	943.0	957.8	869.4	815.3	1105.1	1227.9	1237.7	1478.4	1611.0	1979.4
55°	525.5	589.4	633.6	638.5	609.0	908.7	903.7	1095.3	1198.4	1444.0
57.5°	68.8	83.5	127.7	412.6	407.7	505.9	633.6	795.7	854.6	1056.0
60°	4.9	9.8	14.7	63.9	270.1	294.7	432.2	496.1	594.3	741.7
62.5°	0.0	0.0	4.9	14.7	54.0	171.9	225.9	260.3	348.7	486.3
65°	0.0	0.0	4.9	9.8	19.6	63.9	88.4	142.4	206.3	299.6
67.5°	0.0	0.0	4.9	9.8	14.7	24.6	39.3	63.9	108.1	181.7
70°	0.0	0.0	4.9	9.8	14.7	19.6	29.5	39.3	58.9	98.2
72.5°	0.0	0.0	4.9	4.9	9.8	24.6	24.6	29.5	39.3	54.0
75°	0.0	0.0	4.9	9.8	14.7	24.6	24.6	24.6	29.5	34.4
77.5°	0.0	0.0	4.9	9.8	14.7	24.6	19.6	24.6	24.6	24.6
80°	0.0	0.0	4.9	9.8	14.7	24.6	29.5	24.6	19.6	19.6
82.5°	0.0	0.0	4.9	14.7	14.7	34.4	34.4	34.4	14.7	14.7
85°	0.0	0.0	9.8	14.7	24.6	39.3	39.3	29.5	14.7	9.8
87.5°	0.0	0.0	4.9	9.8	9.8	19.6	29.5	24.6	9.8	4.9
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°
45683.2	0°	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2	45683.2
45255.8	2.5°	45619.3	45496.5	45727.4	45756.8	45658.6	45535.8	45250.9	45226.4	44730.3
44253.9	5°	44754.9	44553.5	44700.8	44799.1	44764.7	44632.1	44514.2	44406.1	43959.2
42628.1	7.5°	43143.8	43070.2	43138.9	43212.6	43355.0	43212.6	43163.5	43050.5	42608.5
41026.9	10°	41356.0	41218.5	41478.8	41444.4	41405.1	41365.8	41159.5	41179.2	40658.6
38846.2	12.5°	39160.5	38929.7	39180.1	39209.6	39180.1	39042.6	38811.8	38910.0	38433.6
35899.2	15°	36208.6	36184.0	36365.8	36483.7	36567.2	36419.8	36341.2	36390.3	36105.5
32107.4	17.5°	32583.8	32903.1	33497.4	33698.8	33703.7	33855.9	33811.7	33752.8	33541.6
27907.9	20°	28320.5	28934.5	29848.0	30786.2	31056.3	30928.6	30869.7	30977.7	30663.4
23963.9	22.5°	24386.3	24911.8	25972.7	27343.1	28133.9	28212.5	28197.7	28104.4	27981.6
20805.7	25°	21046.4	21513.0	22529.7	23782.2	25299.9	25525.8	25535.6	25506.1	25398.1
17942.2	27.5°	18227.1	18791.9	19351.9	20471.7	22087.6	23020.9	22903.0	22868.6	22829.3
15525.7	30°	15673.0	16385.2	16910.8	17608.2	19057.2	20319.5	20442.2	20383.3	20290.0
13526.7	32.5°	13649.4	14071.8	14739.8	15211.3	16252.6	17681.9	18153.4	18109.2	18025.7
11724.1	35°	11891.1	12058.1	12583.6	13109.2	13801.7	15186.8	15884.2	15786.0	15771.3
9553.1	37.5°	9793.8	10353.7	10643.5	11174.0	11660.2	12735.9	13698.6	13654.4	13659.3
7681.8	40°	7907.7	8231.9	8806.6	9253.5	9700.5	10486.4	11557.1	11586.6	11576.7
5948.0	42.5°	6070.8	6385.1	6989.3	7475.5	7873.4	8359.6	9381.2	9415.6	9459.8
4631.7	45°	4739.7	4941.1	5383.2	5889.1	6311.5	6606.2	7382.2	7603.2	7608.1
3590.4	47.5°	3678.8	3909.7	4224.0	4710.3	5122.8	5334.0	5898.9	6198.5	6183.8
2755.4	50°	2888.0	3099.2	3354.6	3737.8	4184.7	4351.7	4769.2	5063.9	5049.2
2077.6	52.5°	2210.2	2480.4	2706.3	3001.0	3438.1	3580.6	3880.2	4219.1	4170.0
1522.6	55°	1674.9	1949.9	2161.1	2406.7	2804.5	2986.3	3192.6	3462.7	3472.5
1178.8	57.5°	1262.3	1547.2	1738.7	1989.2	2288.8	2490.2	2647.4	2937.2	2932.2
805.5	60°	903.7	1149.3	1380.2	1640.5	1871.3	2102.2	2210.2	2485.3	2495.1
569.8	62.5°	653.2	884.1	1105.1	1331.1	1537.3	1763.3	1861.5	2077.6	2107.1
373.3	65°	456.8	618.9	874.3	1046.2	1277.0	1444.0	1571.7	1758.4	1792.7
221.0	67.5°	294.7	447.0	692.5	844.8	1056.0	1198.4	1331.1	1478.4	1522.6
142.4	70°	176.8	338.9	515.7	677.8	869.4	997.1	1124.8	1252.5	1277.0
68.8	72.5°	113.0	235.8	373.3	550.1	697.5	835.0	947.9	1041.3	967.6
44.2	75°	63.9	162.1	294.7	432.2	564.8	697.5	790.8	839.9	672.9
29.5	77.5°	39.3	117.9	240.7	348.7	437.1	559.9	618.9	648.3	481.3
19.6	80°	24.6	88.4	201.4	284.9	284.9	412.6	481.3	505.9	348.7
14.7	82.5°	19.6	63.9	157.2	216.1	191.6	309.4	378.2	383.1	245.6
9.8	85°	14.7	49.1	98.2	142.4	132.6	216.1	221.0	245.6	162.1
9.8	87.5°	9.8	29.5	58.9	83.5	73.7	103.1	117.9	132.6	88.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45683.2
44342.3
43600.6
42515.2
40481.7
38296.1
35761.6
33227.2
30437.4
27745.9
25034.6
22598.5
20172.1
17804.7
15609.2
13502.1
11404.8
9312.5
7480.4
6129.7
5049.2
4174.9
3472.5
2922.4
2470.6
2097.3
1782.9
1517.7
1257.4
898.8
638.5
451.9
324.2
225.9
147.3
78.6
0.0

(END OF REPORT)