

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: P637998

Luminaire Tested: **IFLD-S-SA6E-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637998
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-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: 32797.9 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

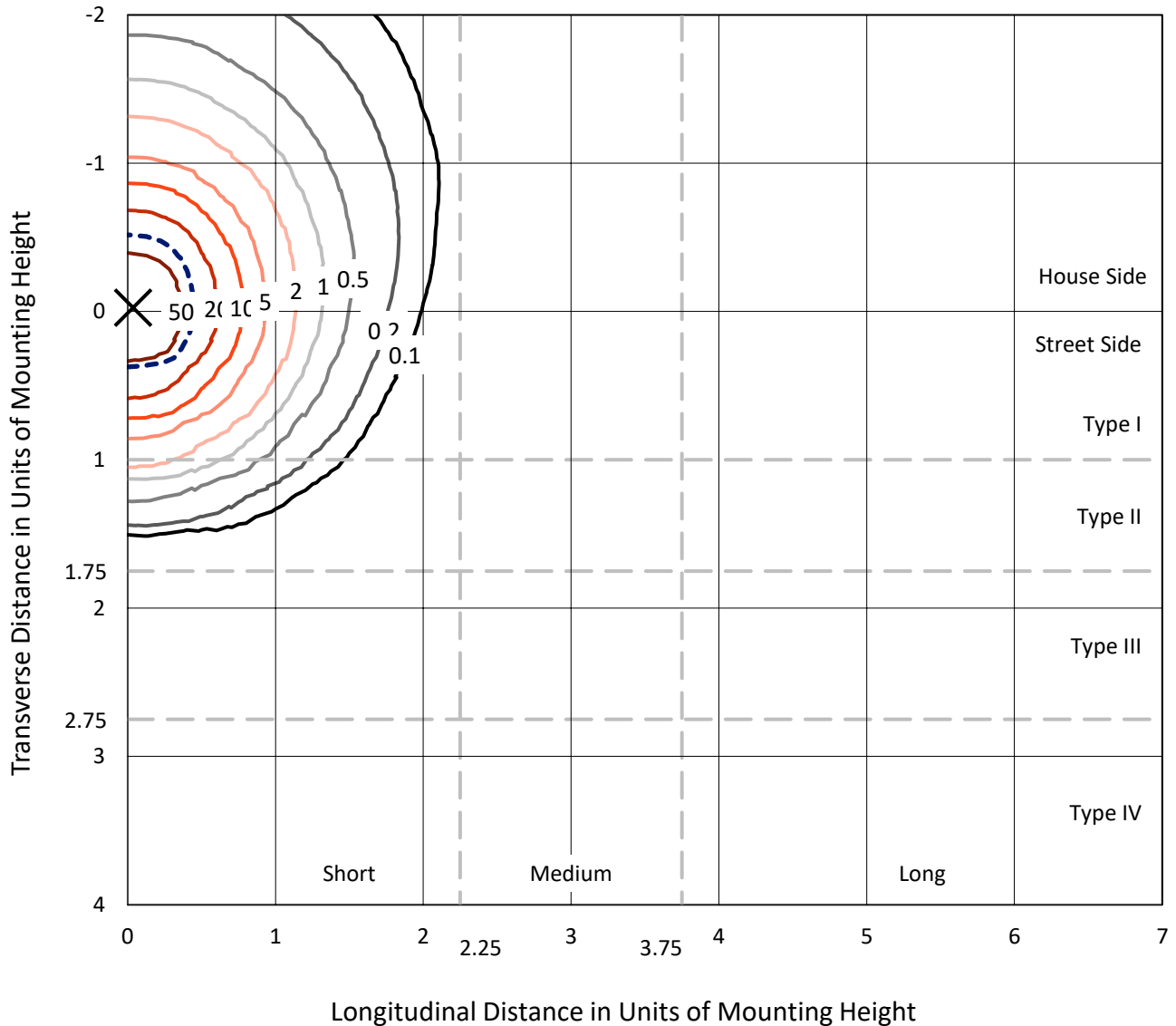
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

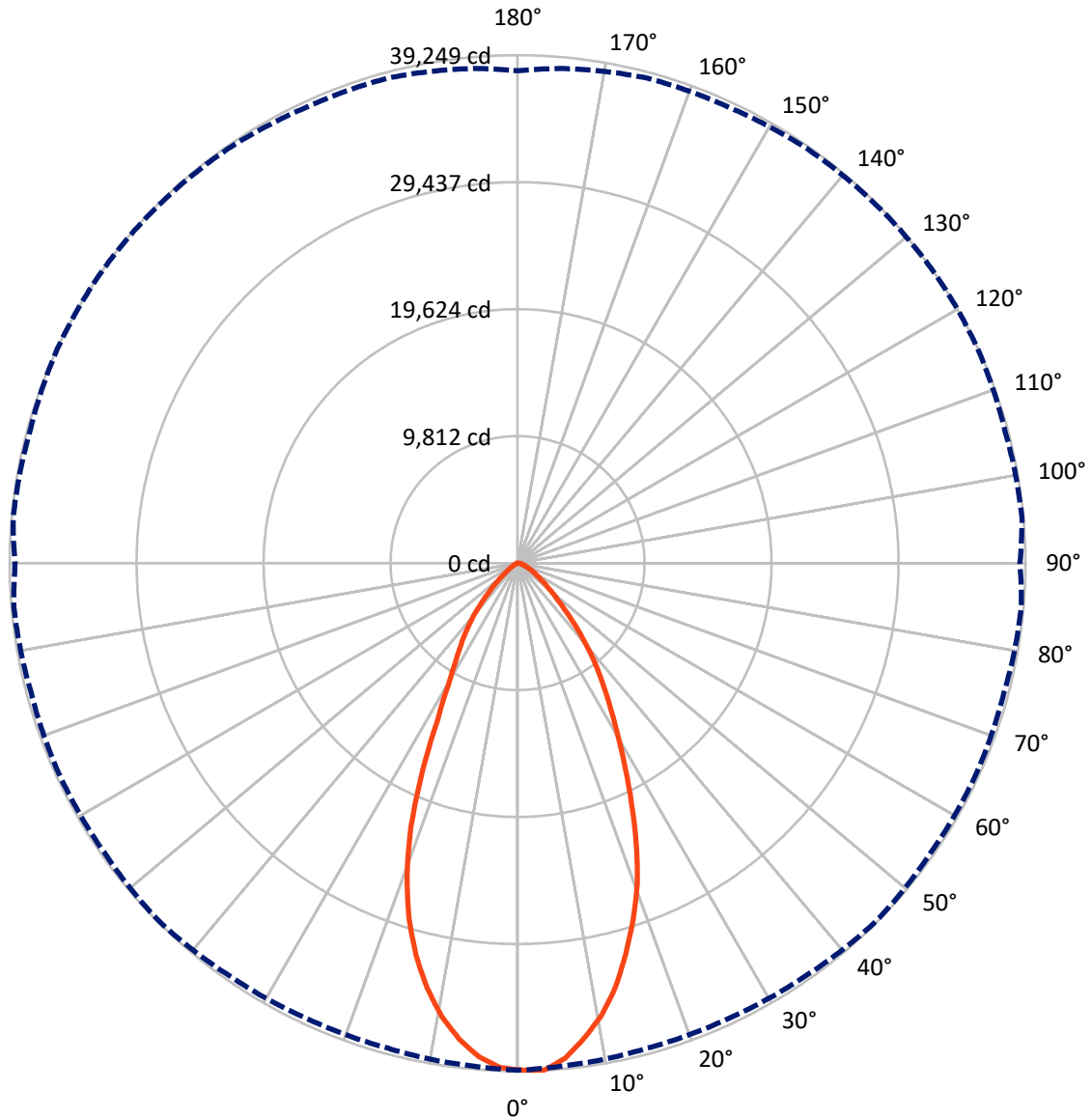
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 98 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	18610.8	0.0	18610.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14187.1	0.0	14187.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	32797.9	0.0	32797.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3558.2	10.8
10°-20°	8481.9	25.9
20°-30°	8638.7	26.3
30°-40°	6441.8	19.6
40°-50°	3365.4	10.3
50°-60°	1415.5	4.3
60°-70°	578.1	1.8
70°-80°	243.3	0.7
80°-90°	75.0	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°	32797.9	100.0
0°-180°	32797.9	100.0



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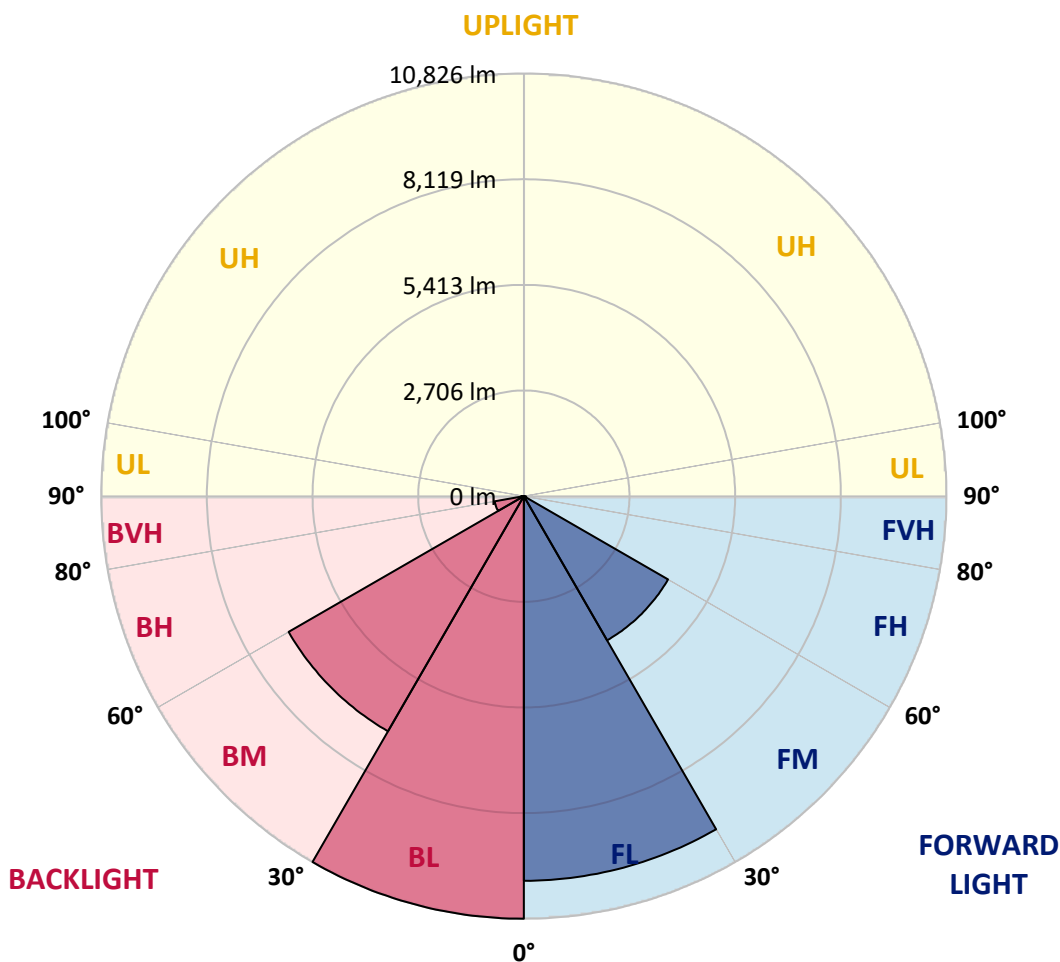
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9852.9	30.0			
FM (30°-60°)	4265.5	13.0			
FH (60°-80°)	61.7	0.2			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	10825.9	33.0	B5		
BM (30°-60°)	6957.2	21.2	B4/8500		
BH (60°-80°)	759.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	68.0	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°	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5
2.5°	39189.7	39029.6	38802.1	38781.1	38899.0	39156.0	38991.7	39000.1	38899.0	39071.8
5°	38574.6	38422.9	38267.1	38060.6	38233.4	38342.9	38258.6	38165.9	38035.3	38203.9
7.5°	37411.8	37327.6	37095.8	37003.1	37108.5	37230.7	37049.5	37024.2	36843.1	37062.1
10°	35633.9	35600.2	35372.7	35317.9	35410.6	35596.0	35515.9	35499.1	35385.3	35364.3
12.5°	33788.6	33658.0	33375.7	33358.9	33497.9	33776.0	33561.1	33354.7	33417.8	33472.6
15°	29036.3	28897.3	29596.6	30696.2	31273.4	31252.3	31315.5	31067.0	30991.1	31016.4
17.5°	23083.3	22847.3	23100.1	24802.2	27544.9	29137.4	28699.2	28164.2	27877.7	27688.1
20°	19923.5	19936.1	19889.8	20327.9	22038.4	25670.1	25564.7	24532.5	24157.6	24001.7
22.5°	18002.3	17930.7	17829.6	17968.6	18427.8	20559.6	21987.9	21039.9	20909.3	20736.6
25°	16119.1	16119.1	15996.9	16136.0	16266.6	16296.0	17728.5	18116.1	17863.3	17863.3
27.5°	14488.7	14404.4	14349.6	14412.8	14240.1	13410.1	13591.3	15575.6	15402.9	15297.6
30°	12870.8	12845.6	12752.9	12837.1	12196.8	11261.5	10882.3	13144.7	13325.9	13287.9
32.5°	10625.3	10726.4	11139.3	11269.9	10174.5	9420.4	9058.0	10911.8	11636.4	11606.9
35°	7221.2	7305.4	7777.3	9336.1	8434.5	7895.2	7789.9	8678.9	9871.2	9984.9
37.5°	5750.8	5738.2	5873.0	6151.0	6778.8	6648.2	6618.7	6850.4	8051.1	8101.7
40°	4739.7	4722.8	4718.6	4491.1	4335.2	5527.5	5447.5	5308.4	6349.1	6450.2
42.5°	3821.2	3838.1	3850.7	3353.6	3126.1	4263.6	4217.3	4074.0	4979.8	5097.8
45°	2999.7	2995.5	3020.8	2498.3	2435.1	2725.8	3151.4	3037.6	3758.0	3884.4
47.5°	1554.6	1609.4	1950.6	1933.8	1963.3	1933.8	2384.6	2355.1	2827.0	3029.2
50°	1044.8	1061.7	1091.2	1095.4	1546.2	1424.0	1617.8	1832.7	1980.1	2291.9
52.5°	808.9	821.5	745.7	699.4	947.9	1053.3	1061.7	1268.1	1381.9	1697.9
55°	450.8	505.6	543.5	547.7	522.4	779.4	775.2	939.5	1028.0	1238.6
57.5°	59.0	71.6	109.5	353.9	349.7	433.9	543.5	682.5	733.1	905.8
60°	4.2	8.4	12.6	54.8	231.7	252.8	370.7	425.5	509.8	636.2
62.5°	0.0	0.0	4.2	12.6	46.3	147.5	193.8	223.3	299.1	417.1
65°	0.0	0.0	4.2	8.4	16.9	54.8	75.8	122.2	176.9	257.0
67.5°	0.0	0.0	4.2	8.4	12.6	21.1	33.7	54.8	92.7	155.9
70°	0.0	0.0	4.2	8.4	12.6	16.9	25.3	33.7	50.6	84.3
72.5°	0.0	0.0	4.2	4.2	8.4	21.1	21.1	25.3	33.7	46.3
75°	0.0	0.0	4.2	8.4	12.6	21.1	21.1	21.1	25.3	29.5
77.5°	0.0	0.0	4.2	8.4	12.6	21.1	16.9	21.1	21.1	21.1
80°	0.0	0.0	4.2	8.4	12.6	21.1	25.3	21.1	16.9	16.9
82.5°	0.0	0.0	4.2	12.6	12.6	29.5	29.5	29.5	12.6	12.6
85°	0.0	0.0	8.4	12.6	21.1	33.7	33.7	25.3	12.6	8.4
87.5°	0.0	0.0	4.2	8.4	8.4	16.9	25.3	21.1	8.4	4.2
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°
39185.5	0°	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5	39185.5
38819.0	2.5°	39130.7	39025.4	39223.4	39248.7	39164.4	39059.1	38814.8	38793.7	38368.2
37959.5	5°	38389.2	38216.5	38342.9	38427.2	38397.7	38283.9	38182.8	38090.1	37706.7
36565.0	7.5°	37007.4	36944.2	37003.1	37066.3	37188.5	37066.3	37024.2	36927.3	36548.1
35191.5	10°	35473.8	35355.8	35579.1	35549.6	35515.9	35482.2	35305.3	35322.1	34875.6
33320.9	12.5°	33590.6	33392.6	33607.4	33632.7	33607.4	33489.5	33291.5	33375.7	32967.1
30793.1	15°	31058.5	31037.5	31193.4	31294.5	31366.1	31239.7	31172.3	31214.4	30970.1
27540.7	17.5°	27949.3	28223.2	28732.9	28905.7	28909.9	29040.5	29002.6	28952.0	28770.9
23938.5	20°	24292.4	24819.0	25602.7	26407.3	26639.1	26529.5	26479.0	26571.7	26302.0
20555.4	22.5°	20917.8	21368.5	22278.6	23454.0	24132.3	24199.7	24187.1	24107.0	24001.7
17846.4	25°	18052.9	18453.1	19325.2	20399.5	21701.4	21895.2	21903.6	21878.3	21785.6
15390.2	27.5°	15634.6	16119.1	16599.4	17560.0	18946.0	19746.5	19645.4	19615.9	19582.2
13317.4	30°	13443.8	14054.7	14505.5	15103.8	16346.6	17429.4	17534.7	17484.1	17404.1
11602.7	32.5°	11708.0	12070.4	12643.3	13047.8	13941.0	15167.0	15571.4	15533.5	15461.9
10056.5	35°	10199.8	10343.0	10793.8	11244.6	11838.6	13026.7	13625.0	13540.7	13528.1
8194.4	37.5°	8400.8	8881.1	9129.7	9584.7	10001.8	10924.4	11750.2	11712.3	11716.5
6589.2	40°	6783.0	7061.1	7554.0	7937.4	8320.8	8994.8	9913.3	9938.6	9930.1
5102.0	42.5°	5207.3	5477.0	5995.2	6412.2	6753.5	7170.6	8046.9	8076.4	8114.3
3972.9	45°	4065.6	4238.3	4617.5	5051.4	5413.8	5666.5	6332.2	6521.8	6526.0
3079.7	47.5°	3155.6	3353.6	3623.2	4040.3	4394.2	4575.4	5059.9	5316.9	5304.2
2363.5	50°	2477.3	2658.4	2877.5	3206.1	3589.5	3732.8	4090.9	4343.6	4331.0
1782.1	52.5°	1895.9	2127.6	2321.4	2574.2	2949.1	3071.3	3328.3	3619.0	3576.9
1306.0	55°	1436.6	1672.6	1853.7	2064.4	2405.6	2561.5	2738.5	2970.2	2978.6
1011.1	57.5°	1082.8	1327.1	1491.4	1706.3	1963.3	2136.0	2270.8	2519.4	2515.2
690.9	60°	775.2	985.9	1183.9	1407.2	1605.2	1803.2	1895.9	2131.8	2140.2
488.7	62.5°	560.3	758.3	947.9	1141.7	1318.7	1512.5	1596.7	1782.1	1807.4
320.2	65°	391.8	530.8	749.9	897.4	1095.4	1238.6	1348.2	1508.3	1537.8
189.6	67.5°	252.8	383.4	594.0	724.6	905.8	1028.0	1141.7	1268.1	1306.0
122.2	70°	151.7	290.7	442.4	581.4	745.7	855.2	964.8	1074.3	1095.4
59.0	72.5°	96.9	202.2	320.2	471.9	598.3	716.2	813.1	893.2	830.0
37.9	75°	54.8	139.0	252.8	370.7	484.5	598.3	678.3	720.4	577.2
25.3	77.5°	33.7	101.1	206.4	299.1	375.0	480.3	530.8	556.1	412.9
16.9	80°	21.1	75.8	172.7	244.4	244.4	353.9	412.9	433.9	299.1
12.6	82.5°	16.9	54.8	134.8	185.4	164.3	265.4	324.4	328.6	210.7
8.4	85°	12.6	42.1	84.3	122.2	113.8	185.4	189.6	210.7	139.0
8.4	87.5°	8.4	25.3	50.6	71.6	63.2	88.5	101.1	113.8	75.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
39185.5
38035.3
37399.2
36468.1
34723.9
32849.1
30675.2
28501.2
26108.2
23799.5
21473.9
19384.2
17303.0
15272.3
13389.0
11581.7
9782.7
7987.9
6416.5
5257.9
4331.0
3581.1
2978.6
2506.8
2119.2
1799.0
1529.3
1301.8
1078.5
771.0
547.7
387.6
278.1
193.8
126.4
67.4
0.0

(END OF REPORT)