

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: P636587

Luminaire Tested: **IFLD-L-SA7E-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636587
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28456.1 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

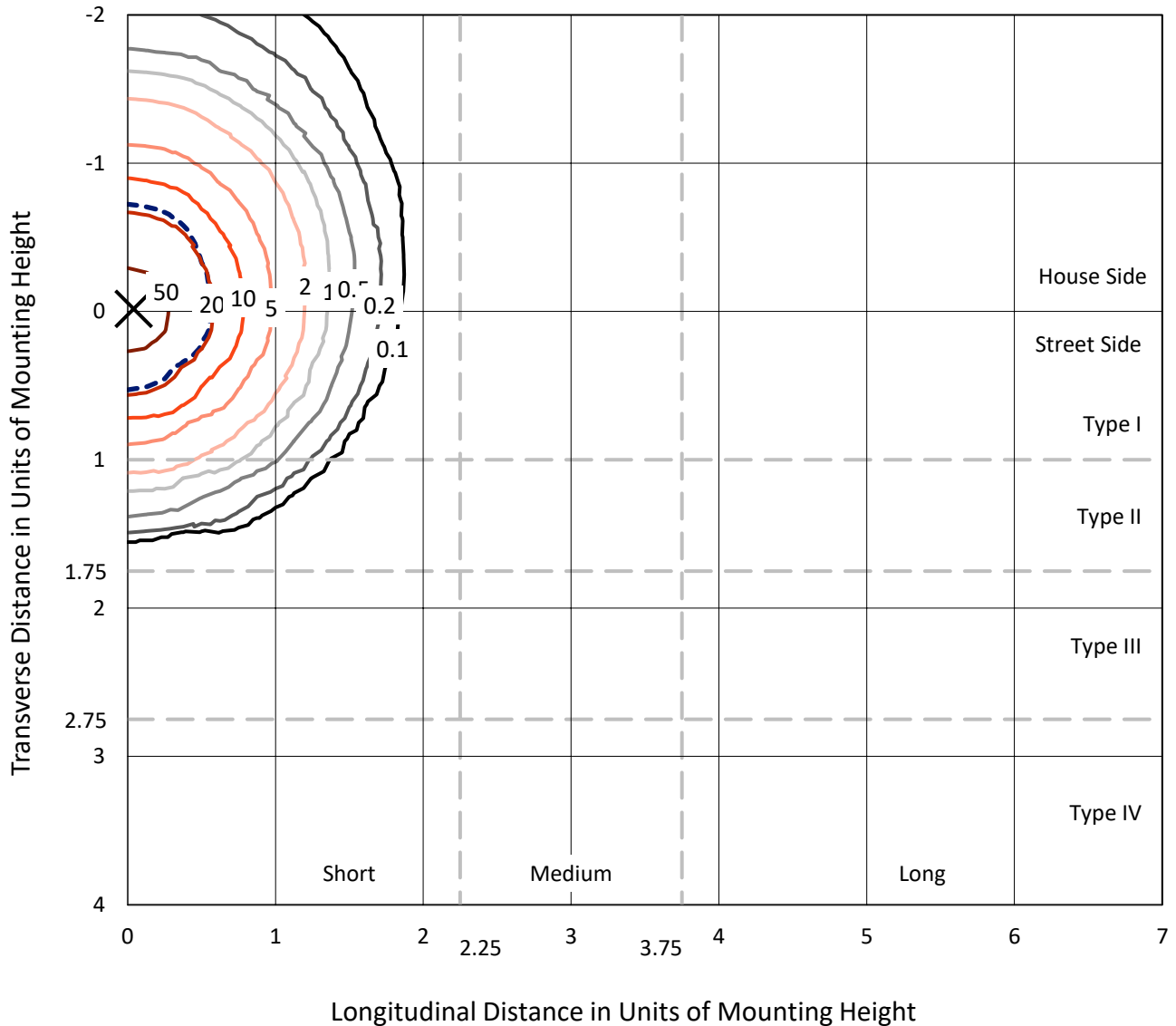
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

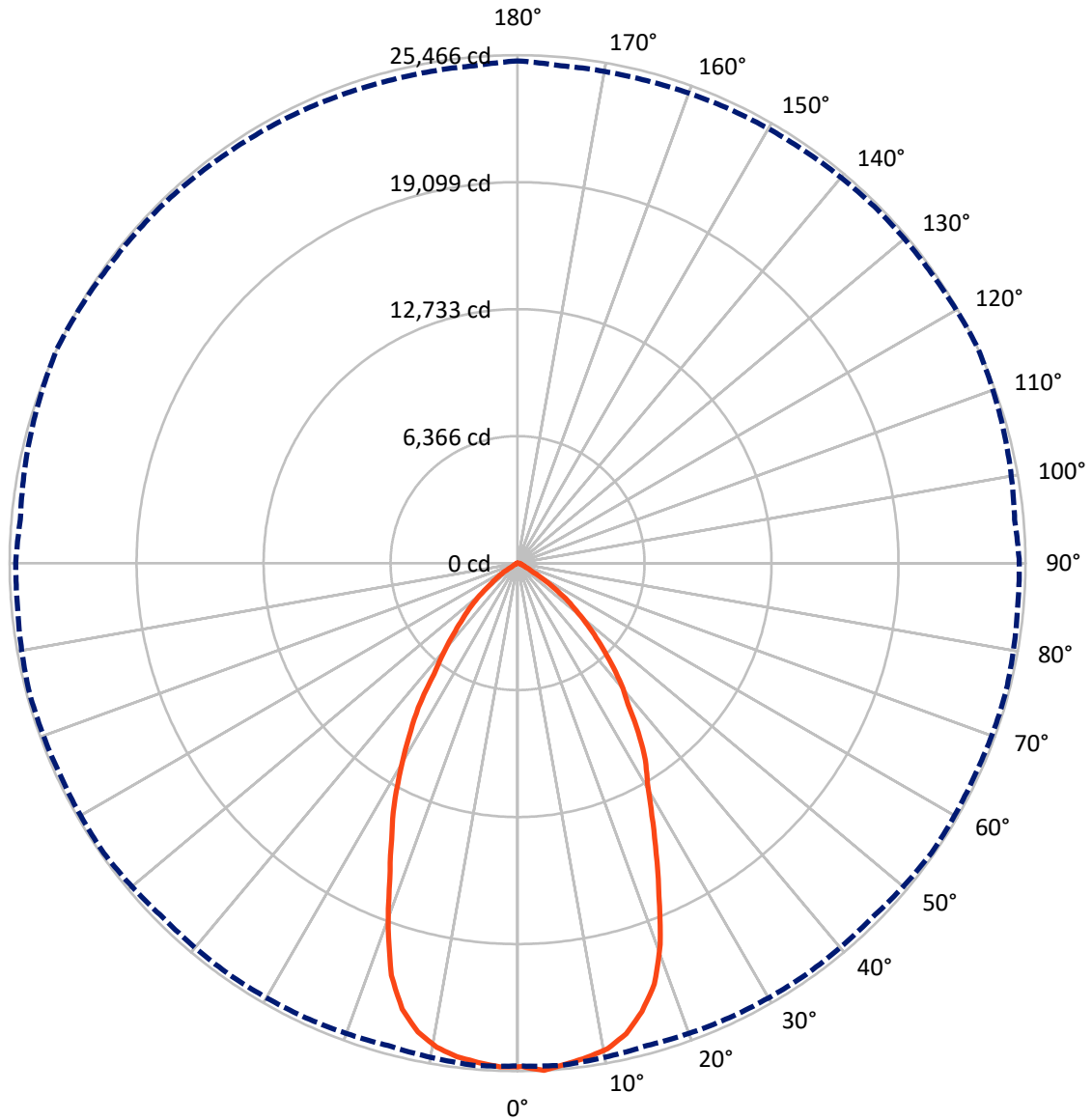
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16285.0	0.0	16285.0
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	12171.0	0.0	12171.0
	% Fixture	42.8	0.0	42.8
Total	Lumens	28456.1	0.0	28456.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2378.0	8.4
10°-20°	6305.3	22.2
20°-30°	7211.9	25.3
30°-40°	6180.4	21.7
40°-50°	4086.7	14.4
50°-60°	1783.3	6.3
60°-70°	350.4	1.2
70°-80°	126.4	0.4
80°-90°	33.6	0.1
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°	28456.1	100.0
0°-180°	28456.1	100.0



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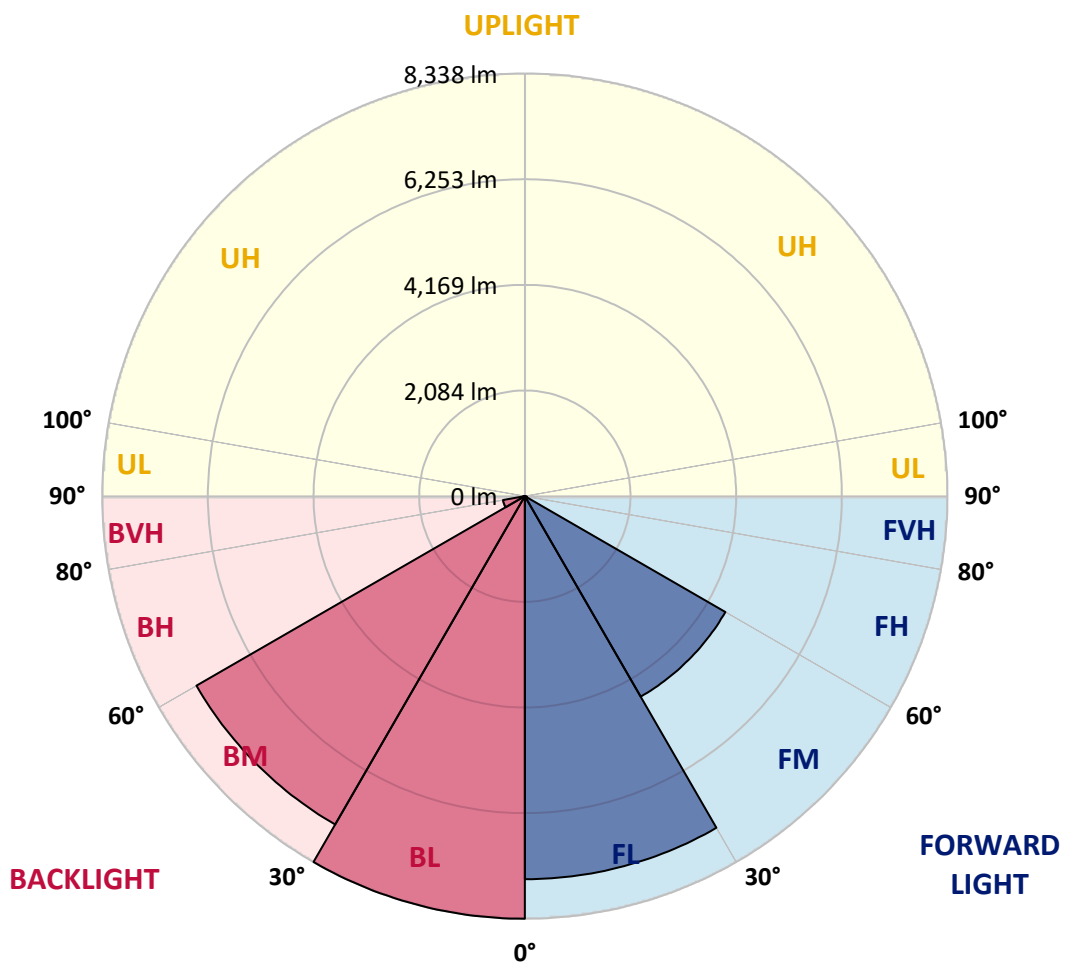
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7557.3	26.6			
FM (30°-60°)	4569.4	16.1			
FH (60°-80°)	38.7	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	8337.9	29.3	B5		
BM (30°-60°)	7481.0	26.3	B4/8500		
BH (60°-80°)	438.1	1.5	B1/500		G1/500
BVH (80°-90°)	28.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7
2.5°	25211.4	25271.9	25042.1	25144.9	25187.2	25132.8	25332.4	25271.9	25320.3	25169.1
5°	25211.4	25271.9	25005.8	25054.1	25066.2	24963.4	25181.2	25108.6	25114.6	24957.4
7.5°	25054.1	25126.7	24884.8	24921.1	24927.1	24842.4	25030.0	24927.1	24890.8	24727.5
10°	24630.7	24673.1	24455.3	24546.0	24630.7	24552.1	24715.4	24600.5	24600.5	24455.3
12.5°	23959.3	24038.0	23796.0	23904.9	23977.5	23886.7	24074.2	24031.9	24038.0	23892.8
15°	22737.5	22465.3	22755.6	22973.4	22979.4	22961.3	23136.7	23094.3	23124.6	22906.8
17.5°	16797.5	16731.0	17069.7	19640.5	21551.9	21812.0	21842.2	21612.4	21509.5	21297.8
20°	15563.6	15612.0	15539.4	15551.5	17057.6	20184.9	19997.3	19428.8	19168.7	18957.0
22.5°	14662.3	14583.7	14535.3	14505.0	14547.4	16585.8	17934.7	17075.8	16936.7	16833.8
25°	13682.4	13646.1	13585.6	13573.5	13549.3	13204.5	15146.2	15224.8	15001.0	14874.0
27.5°	12769.0	12744.8	12678.3	12672.2	12394.0	11559.3	11771.0	13640.1	13579.6	13531.2
30°	11795.2	11746.8	11710.5	11710.5	10869.7	10010.8	9666.0	11892.0	11892.0	11849.6
32.5°	10736.6	10694.3	10706.4	10561.2	9557.1	8770.8	8226.4	10264.8	10899.9	10863.7
35°	6563.0	6550.9	7778.8	9393.8	8214.3	7500.5	7464.2	8782.9	9708.3	9805.1
37.5°	5843.1	5806.9	5825.0	5927.8	7034.8	6750.5	6738.4	6962.2	8262.7	8311.1
40°	5244.3	5220.1	5202.0	4833.0	4482.2	6024.6	5982.3	5837.1	7059.0	7143.6
42.5°	4675.7	4651.5	4651.5	4131.3	3562.7	4954.0	4972.1	4802.8	5952.0	5982.3
45°	4089.0	4070.8	3968.0	3296.6	3133.3	3290.5	4119.2	3925.7	4724.1	5038.7
47.5°	1929.6	1917.5	2776.4	2740.1	2728.0	2631.2	3145.4	3254.3	3750.3	4064.8
50°	1548.5	1536.4	1463.8	1288.4	2244.1	1996.1	2268.3	2504.2	2661.5	2951.8
52.5°	1282.3	1270.2	1119.0	992.0	1246.1	1457.8	1354.9	1675.5	1669.5	1984.0
55°	840.8	780.3	858.9	810.5	653.3	1058.5	1034.3	1270.2	1240.0	1512.2
57.5°	18.1	18.1	42.3	459.7	411.3	447.6	592.8	725.9	816.6	895.2
60°	6.0	6.0	12.1	24.2	169.4	187.5	229.9	266.1	375.0	465.8
62.5°	0.0	0.0	6.0	12.1	24.2	96.8	108.9	127.0	175.4	242.0
65°	0.0	0.0	0.0	6.0	12.1	24.2	36.3	78.6	108.9	139.1
67.5°	0.0	0.0	0.0	6.0	6.0	12.1	24.2	36.3	48.4	96.8
70°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	24.2	36.3	48.4
72.5°	0.0	0.0	0.0	6.0	6.0	18.1	12.1	18.1	24.2	30.2
75°	0.0	0.0	0.0	6.0	6.0	6.0	12.1	18.1	18.1	24.2
77.5°	0.0	0.0	0.0	6.0	12.1	12.1	12.1	12.1	12.1	18.1
80°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	24.2	12.1	12.1
82.5°	0.0	0.0	0.0	12.1	6.0	24.2	36.3	30.2	12.1	6.0
85°	0.0	0.0	0.0	6.0	24.2	30.2	30.2	18.1	6.0	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	18.1	6.0	6.0
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°
25247.7	0°	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7	25247.7
25157.0	2.5°	25017.9	25253.8	25465.5	25332.4	25284.0	25187.2	25114.6	25036.0	25030.0
24939.2	5°	24800.1	25023.9	25229.6	25072.3	25084.4	25036.0	24987.6	24969.5	24981.6
24715.4	7.5°	24612.6	24800.1	25023.9	24890.8	24927.1	24896.9	24872.7	24836.4	24890.8
24425.1	10°	24328.3	24497.7	24757.8	24630.7	24612.6	24582.3	24558.1	24491.6	24521.9
23898.8	12.5°	23705.3	23917.0	24213.4	24068.2	24116.6	24031.9	23995.6	23953.3	23959.3
22985.5	15°	22858.4	23021.8	23324.2	23209.3	23245.6	23191.1	23191.1	23191.1	23233.5
21328.1	17.5°	21382.5	21715.2	22193.1	22047.9	22102.3	22114.4	22102.3	22144.7	22199.1
18969.1	20°	18981.1	19549.7	20420.8	20705.1	20820.0	20826.0	20741.4	20844.2	20953.1
16761.2	22.5°	16773.3	17372.2	18140.4	18920.7	19404.6	19380.4	19392.5	19459.0	19573.9
14795.4	25°	14861.9	15436.5	16132.2	16827.8	17886.3	18104.1	18110.1	18170.6	18261.3
13452.5	27.5°	13482.8	13706.6	14341.7	15043.4	16180.6	16876.2	16839.9	16894.3	16991.1
11771.0	30°	11819.4	12678.3	12823.5	13252.9	14232.8	15509.1	15515.2	15575.7	15672.5
10779.0	32.5°	10748.7	11317.3	11764.9	11777.0	12611.8	13924.3	14184.4	14244.9	14311.5
9750.7	35°	9744.6	9811.2	10416.0	10585.4	11069.3	12369.8	12829.5	12865.8	12974.7
8292.9	37.5°	8432.0	8825.2	8994.6	9599.5	9623.6	10676.1	11589.5	11553.2	11637.9
7137.6	40°	7228.3	7603.3	8032.8	8474.4	8534.9	9321.2	10331.4	10367.7	10403.9
5921.8	42.5°	5970.2	6448.0	6889.6	7186.0	7597.3	8051.0	9012.7	9182.1	9266.8
5074.9	45°	5165.7	5298.8	5825.0	6260.5	6677.9	6889.6	7790.9	8099.3	8153.8
4016.4	47.5°	4070.8	4518.5	4875.3	5244.3	5764.5	5952.0	6605.3	7034.8	7077.1
2982.1	50°	3145.4	3466.0	3955.9	4288.6	4893.5	4996.3	5443.9	6000.4	6054.9
1996.1	52.5°	2250.2	2685.7	3163.5	3484.1	4064.8	4197.9	4530.6	5062.8	5099.1
1530.3	55°	1615.0	1899.3	2292.5	2752.2	3175.6	3472.0	3701.9	4210.0	4258.4
1004.1	57.5°	1100.9	1367.0	1530.3	1990.1	2244.1	2564.7	2752.2	3139.3	3175.6
477.9	60°	526.2	653.3	780.3	1010.2	1173.5	1445.7	1566.6	1723.9	1766.3
290.3	62.5°	338.7	399.2	508.1	604.9	762.1	931.5	979.9	1113.0	1161.4
181.5	65°	223.8	284.3	399.2	423.4	580.7	713.8	774.2	871.0	925.5
108.9	67.5°	127.0	199.6	296.4	350.8	459.7	586.7	653.3	738.0	786.3
72.6	70°	84.7	163.3	235.9	290.3	362.9	471.8	556.5	629.1	659.3
36.3	72.5°	48.4	102.8	163.3	229.9	290.3	393.2	471.8	532.3	350.8
24.2	75°	30.2	78.6	139.1	193.6	242.0	314.5	381.1	375.0	157.3
18.1	77.5°	24.2	60.5	121.0	163.3	199.6	217.8	272.2	308.5	121.0
12.1	80°	18.1	48.4	108.9	139.1	78.6	157.3	211.7	229.9	84.7
12.1	82.5°	12.1	30.2	90.7	96.8	54.4	114.9	169.4	151.2	60.5
6.0	85°	6.0	18.1	30.2	54.4	48.4	54.4	42.3	60.5	42.3
6.0	87.5°	6.0	12.1	24.2	24.2	24.2	18.1	24.2	24.2	24.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/>
25247.7
25175.1
25132.8
25042.1
24667.0
24134.7
23251.6
22380.6
21025.6
19592.1
18418.6
17081.8
15841.8
14462.7
13089.6
11740.7
10518.9
9387.7
8286.9
7179.9
6133.5
5165.7
4300.7
3248.2
1814.6
1173.5
925.5
780.3
653.3
284.3
157.3
121.0
90.7
60.5
42.3
24.2
0.0

(END OF REPORT)