

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: P638558

Luminaire Tested: **IFLD-L-SA7D-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638558  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28567.4 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

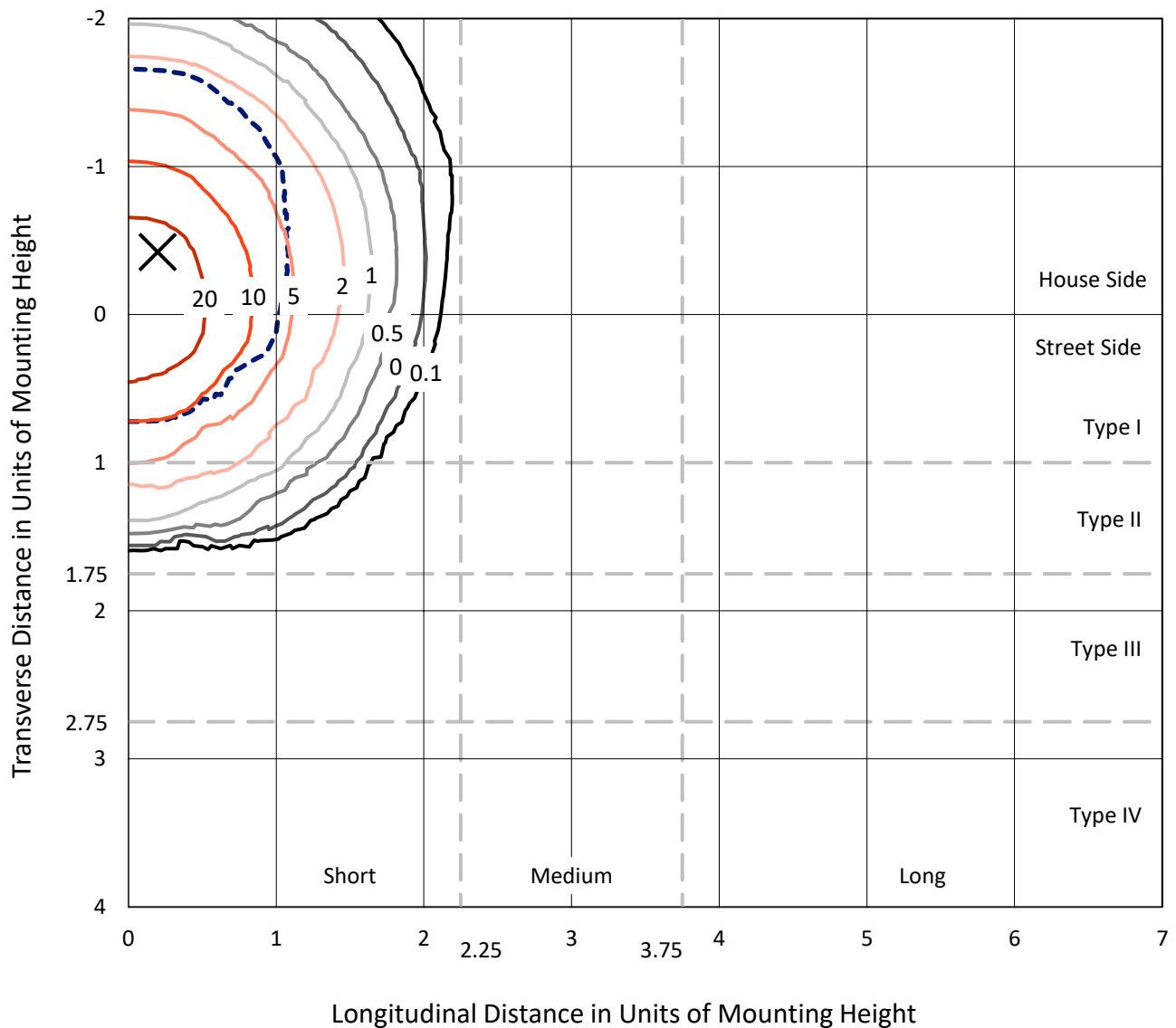
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

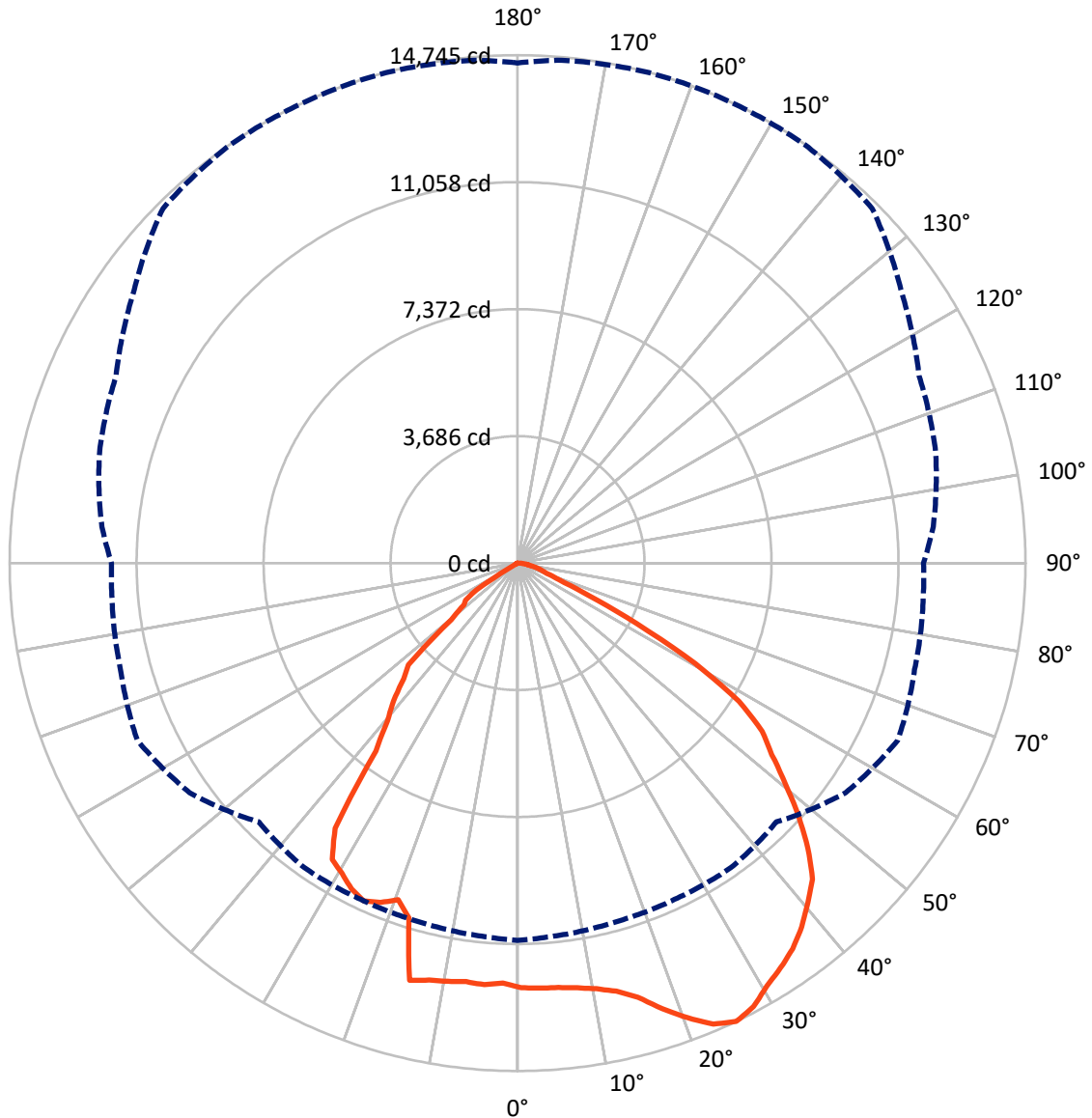
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17686.2	0.0	17686.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10881.3	0.0	10881.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	28567.4	0.0	28567.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1182.5	4.1
10°-20°	3610.8	12.6
20°-30°	5708.6	20.0
30°-40°	6448.3	22.6
40°-50°	6039.0	21.1
50°-60°	4163.4	14.6
60°-70°	1118.6	3.9
70°-80°	233.1	0.8
80°-90°	63.1	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°	28567.4	100.0
0°-180°	28567.4	100.0



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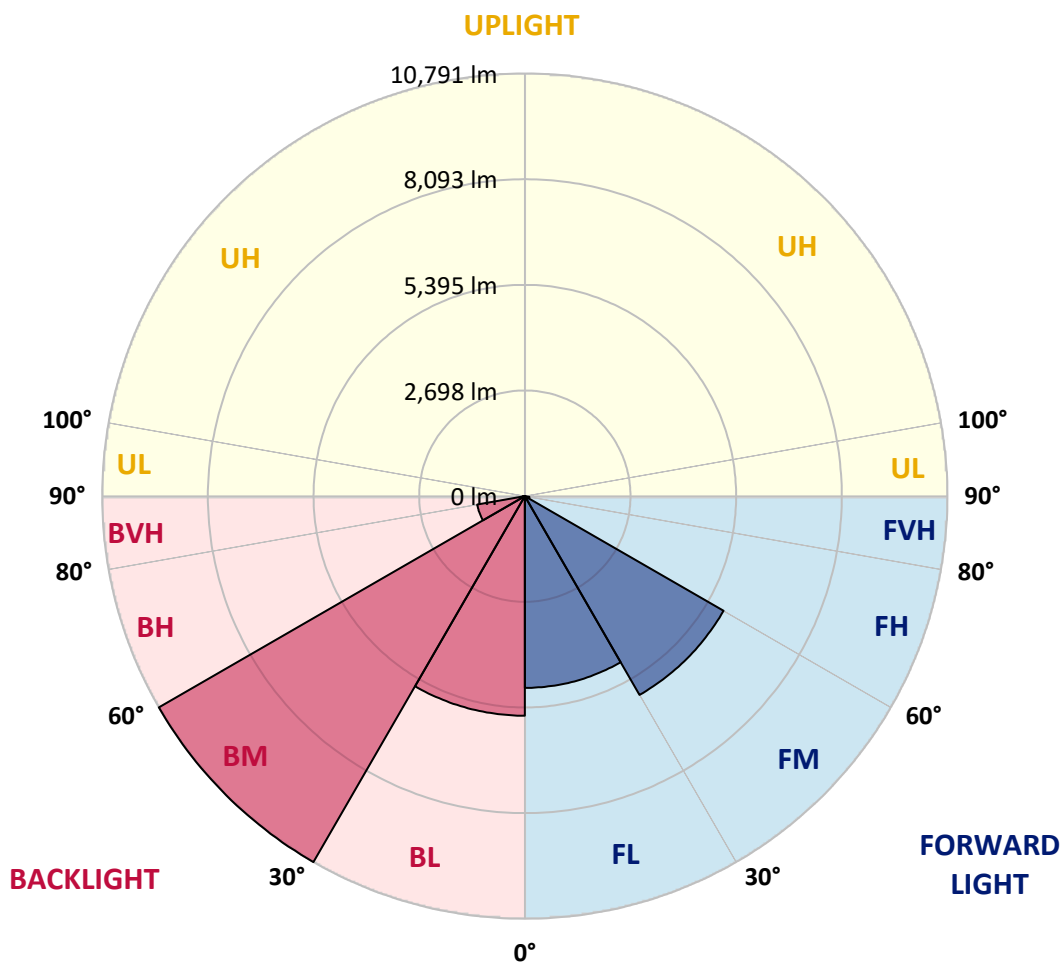
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4895.5	17.1			
FM (30°-60°)	5859.8	20.5			
FH (60°-80°)	117.4	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	5606.4	19.6	B5		
BM (30°-60°)	10790.9	37.8	B5		
BH (60°-80°)	1234.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	54.6	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3
2.5°	12380.9	12301.1	12225.6	12200.4	12305.3	12418.7	12347.3	12351.5	12326.3	12372.5
5°	12473.3	12364.1	12313.7	12276.0	12292.7	12410.3	12309.5	12347.3	12305.3	12359.9
7.5°	12439.7	12364.1	12313.7	12242.4	12296.9	12435.5	12338.9	12343.1	12322.1	12372.5
10°	12418.7	12364.1	12301.1	12309.5	12372.5	12490.1	12414.5	12456.5	12427.1	12456.5
12.5°	12469.1	12410.3	12376.7	12376.7	12431.3	12565.6	12527.9	12565.6	12553.0	12578.2
15°	11994.7	12049.2	12368.3	12511.1	12620.2	12754.6	12737.8	12775.6	12784.0	12821.7
17.5°	10118.0	10063.4	10038.2	10772.9	12725.2	13140.8	13128.2	13124.0	13082.0	13052.6
20°	10365.7	10344.7	10315.3	10369.9	10588.2	13342.3	13426.3	12909.9	12758.8	12746.2
22.5°	10760.4	10726.8	10617.6	10621.8	10689.0	11600.0	13010.7	12540.5	12490.1	12460.7
25°	10953.5	10886.3	10798.1	10772.9	10793.9	10626.0	11621.0	12179.4	11931.7	11818.3
27.5°	10613.4	10617.6	10546.2	10613.4	10533.6	9777.9	9353.9	11474.1	11465.7	11415.3
30°	10357.3	10344.7	10260.8	10344.7	9794.7	8950.9	8770.3	10701.6	10613.4	10546.2
32.5°	9572.2	9580.6	9824.1	10151.6	9249.0	8581.4	8035.6	9559.6	10395.1	10357.3
35°	6847.5	6864.3	7729.2	9345.5	8421.9	7846.7	7804.7	8262.3	10050.8	10067.6
37.5°	6591.4	6591.4	6570.4	6834.9	7771.1	7548.6	7632.6	7586.4	9207.0	9249.0
40°	6406.7	6368.9	6339.5	5923.9	5403.3	7338.7	7397.5	7187.6	8703.2	8711.6
42.5°	6184.2	6142.2	6150.6	5382.3	4836.5	6818.1	6654.4	6373.1	7863.5	7871.9
45°	5776.9	5848.3	5898.7	4710.5	4668.6	4870.1	6138.0	5961.6	7296.7	7452.1
47.5°	2938.8	3001.8	4605.6	4332.7	4429.3	4328.5	5185.0	5189.2	6070.8	6587.2
50°	2665.9	2649.2	2653.4	2527.4	4089.2	3501.4	3749.1	4756.7	4861.7	5600.6
52.5°	2485.4	2481.2	2225.1	1977.4	2569.4	3081.6	2720.5	3442.6	3614.8	4744.1
55°	1838.9	1973.2	1754.9	1859.9	1608.0	2468.6	2456.0	3106.8	3165.6	3803.7
57.5°	16.8	21.0	50.4	1414.8	1112.6	1234.3	1696.1	2120.2	2225.1	2964.0
60°	4.2	8.4	21.0	42.0	722.1	759.9	1133.6	1225.9	1381.3	1767.5
62.5°	0.0	0.0	8.4	21.0	37.8	310.7	361.1	394.6	608.8	902.6
65°	0.0	0.0	4.2	12.6	21.0	50.4	88.2	184.7	264.5	327.5
67.5°	0.0	0.0	4.2	8.4	16.8	25.2	50.4	71.4	113.4	193.1
70°	0.0	0.0	4.2	8.4	12.6	21.0	33.6	50.4	67.2	96.6
72.5°	0.0	0.0	4.2	8.4	8.4	25.2	25.2	37.8	50.4	63.0
75°	0.0	0.0	4.2	4.2	8.4	16.8	25.2	29.4	33.6	50.4
77.5°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	33.6	29.4	29.4
80°	0.0	0.0	4.2	12.6	12.6	21.0	25.2	33.6	21.0	21.0
82.5°	0.0	0.0	4.2	16.8	12.6	42.0	42.0	46.2	16.8	16.8
85°	0.0	0.0	12.6	8.4	25.2	42.0	37.8	25.2	21.0	12.6
87.5°	0.0	0.0	4.2	4.2	8.4	12.6	29.4	25.2	8.4	8.4
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°
12326.3	0°	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3	12326.3
12250.8	2.5°	12418.7	12364.1	12477.5	12464.9	12410.3	12385.1	12355.7	12330.5	12145.8
12259.2	5°	12422.9	12338.9	12477.5	12452.3	12443.9	12401.9	12376.7	12414.5	12246.6
12292.7	7.5°	12422.9	12338.9	12490.1	12498.5	12485.9	12452.3	12448.1	12473.3	12334.7
12351.5	10°	12506.9	12473.3	12599.2	12611.8	12595.0	12586.6	12565.6	12548.8	12401.9
12553.0	12.5°	12683.2	12616.0	12758.8	12796.6	12784.0	12804.9	12754.6	12779.8	12628.6
12758.8	15°	12897.3	12901.5	13010.7	13094.6	13086.2	13153.4	13077.8	13145.0	13035.9
12993.9	17.5°	13224.8	13271.0	13426.3	13552.3	13598.4	13648.8	13598.4	13619.4	13464.1
12733.6	20°	12880.5	13052.6	13800.0	14030.9	14127.4	14173.6	14089.6	14114.8	13959.5
12414.5	22.5°	12569.8	12792.4	13455.7	14177.8	14475.9	14568.3	14538.9	14534.7	14475.9
11784.7	25°	12112.2	12561.4	12859.5	13623.6	14559.9	14727.8	14744.6	14740.4	14652.2
11398.5	27.5°	11549.6	11650.4	12422.9	12888.9	13972.1	14610.2	14585.0	14463.3	14345.7
10596.6	30°	10831.7	11289.3	11637.8	12380.9	13212.2	14249.2	14249.2	14156.8	14035.1
10311.1	32.5°	10466.5	11058.4	11381.7	11650.4	12359.9	13846.1	14014.1	13917.5	13820.9
10088.6	35°	10273.3	10361.5	11117.2	11360.7	11961.1	13069.4	13749.6	13653.0	13581.6
9496.7	37.5°	9849.3	10055.0	10407.7	11058.4	11243.2	12435.5	13396.9	13346.5	13262.6
8728.4	40°	8904.7	9454.7	9996.3	10613.4	10806.5	11621.0	12968.7	12989.7	12876.3
7909.7	42.5°	8346.3	8720.0	9568.0	9983.7	10504.3	11096.2	12553.0	12586.6	12506.9
7494.0	45°	7691.4	8107.0	8703.2	9458.9	10168.4	10374.1	11818.3	12171.0	12103.8
6667.0	47.5°	7091.0	7426.9	8157.4	8921.5	9706.6	9677.2	10974.5	11637.8	11545.4
6033.0	50°	6238.7	6826.5	7170.8	7871.9	9043.2	9123.0	10076.0	11012.3	10936.7
5126.2	52.5°	5260.5	5999.4	6658.6	7300.9	8371.5	8560.4	9240.6	10374.1	10323.7
3917.1	55°	4597.2	5134.6	5877.7	6394.1	7557.0	8060.8	8615.0	9765.3	9740.2
3220.1	57.5°	3270.5	4307.5	4920.5	5642.6	6255.5	7166.6	7578.0	8526.8	8291.7
1784.3	60°	2216.7	2703.7	3451.0	4227.7	4639.2	5550.2	5932.3	6692.2	6629.2
1066.4	62.5°	1171.3	1620.6	2153.8	2544.2	2842.3	3728.1	3887.7	4706.3	4685.4
428.2	65°	516.4	684.3	1167.1	1368.7	1675.1	2086.6	2225.1	2519.0	2447.6
209.9	67.5°	268.7	407.2	659.1	810.3	1020.2	1175.5	1288.9	1381.3	1440.0
138.5	70°	163.7	298.1	407.2	562.6	701.1	827.1	915.2	1041.2	1116.8
71.4	72.5°	121.8	188.9	281.3	432.4	508.0	654.9	743.1	835.5	902.6
58.8	75°	67.2	126.0	226.7	340.1	407.2	533.2	613.0	675.9	696.9
33.6	77.5°	42.0	96.6	188.9	264.5	319.1	432.4	411.4	470.2	520.6
25.2	80°	29.4	71.4	146.9	218.3	222.5	277.1	327.5	377.9	411.4
16.8	82.5°	21.0	58.8	109.2	167.9	146.9	214.1	256.1	293.9	214.1
12.6	85°	16.8	42.0	54.6	100.8	84.0	151.1	130.1	126.0	84.0
8.4	87.5°	12.6	21.0	37.8	46.2	33.6	33.6	42.0	50.4	42.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
12326.3  
12019.9  
12103.8  
12175.2  
12280.2  
12494.3  
12855.3  
13329.7  
13850.3  
14287.0  
*14517.9*  
14253.4  
13988.9  
13741.2  
13480.9  
13178.6  
12851.1  
12498.5  
12112.2  
11612.6  
10949.3  
10357.3  
9769.5  
8266.5  
6633.4  
4689.5  
2418.2  
1440.0  
1121.0  
915.2  
684.3  
529.0  
415.6  
155.3  
84.0  
42.0  
0.0

(END OF REPORT)