

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: P638440

Luminaire Tested: **IFLD-L-SA7B-740-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638440  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26247.4 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

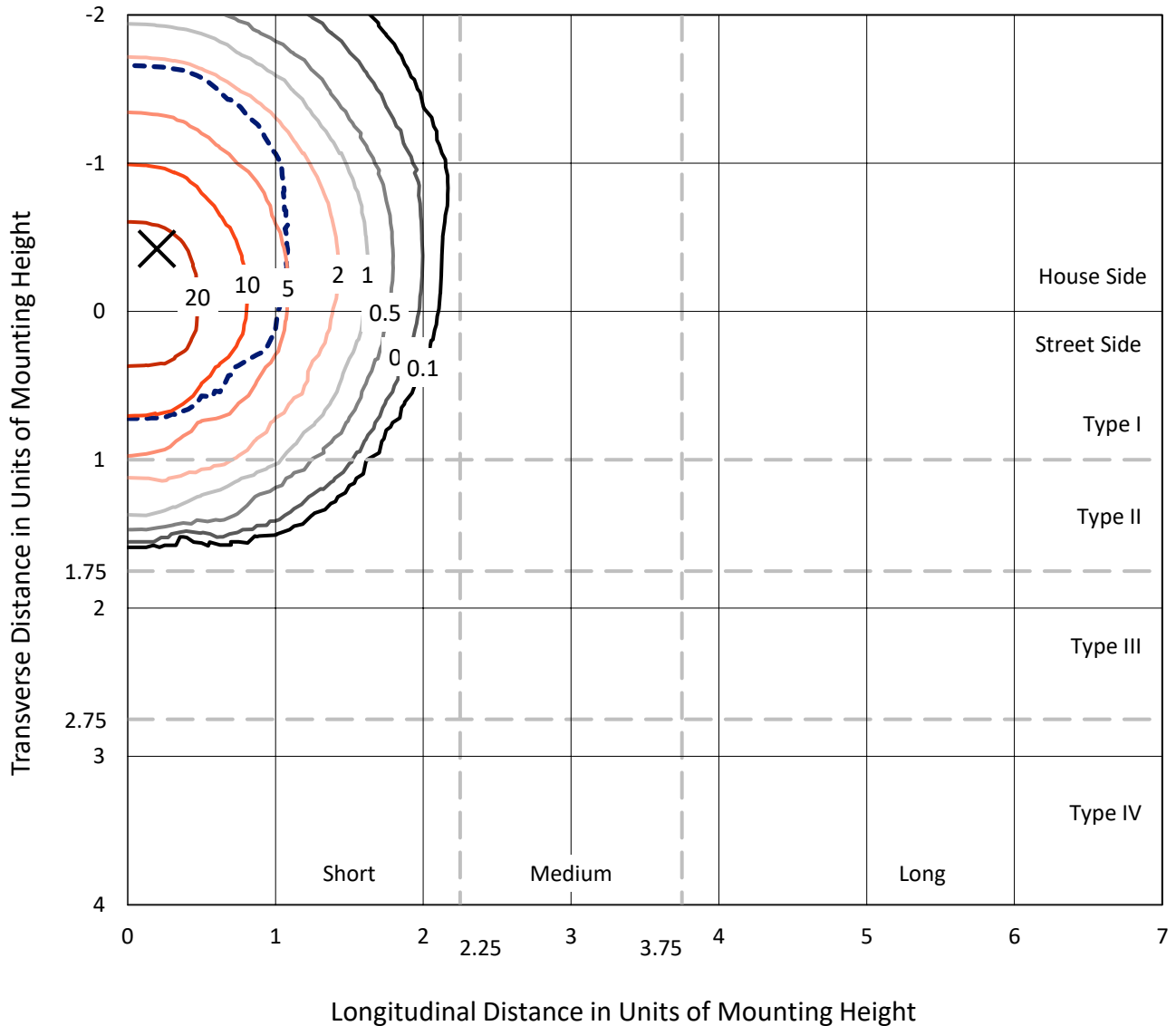
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

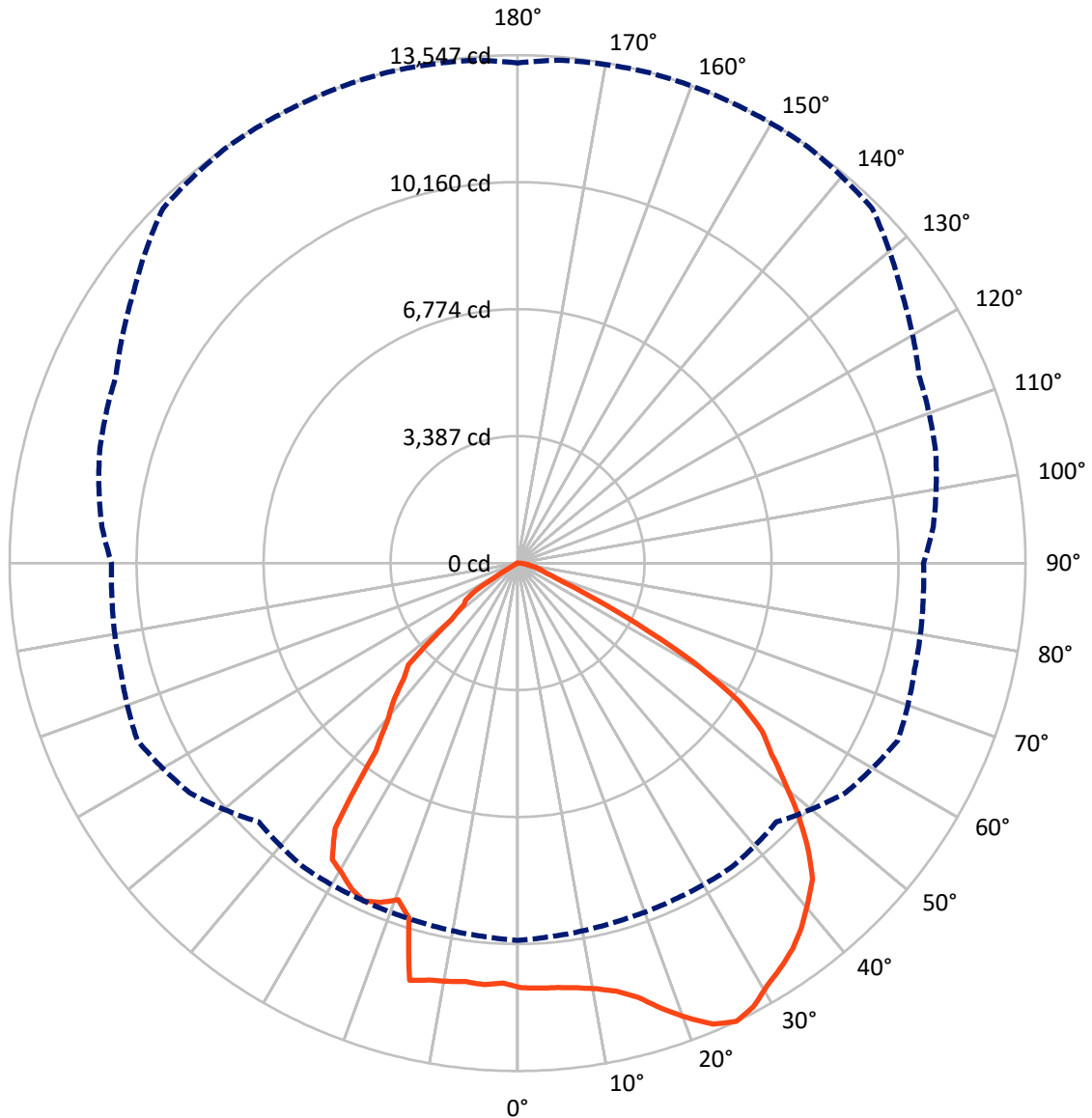
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.3 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	16249.8	0.0	16249.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	9997.6	0.0	9997.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	26247.4	0.0	26247.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1086.5	4.1
10°-20°	3317.6	12.6
20°-30°	5245.0	20.0
30°-40°	5924.6	22.6
40°-50°	5548.5	21.1
50°-60°	3825.3	14.6
60°-70°	1027.7	3.9
70°-80°	214.2	0.8
80°-90°	57.9	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°	26247.4	100.0
0°-180°	26247.4	100.0



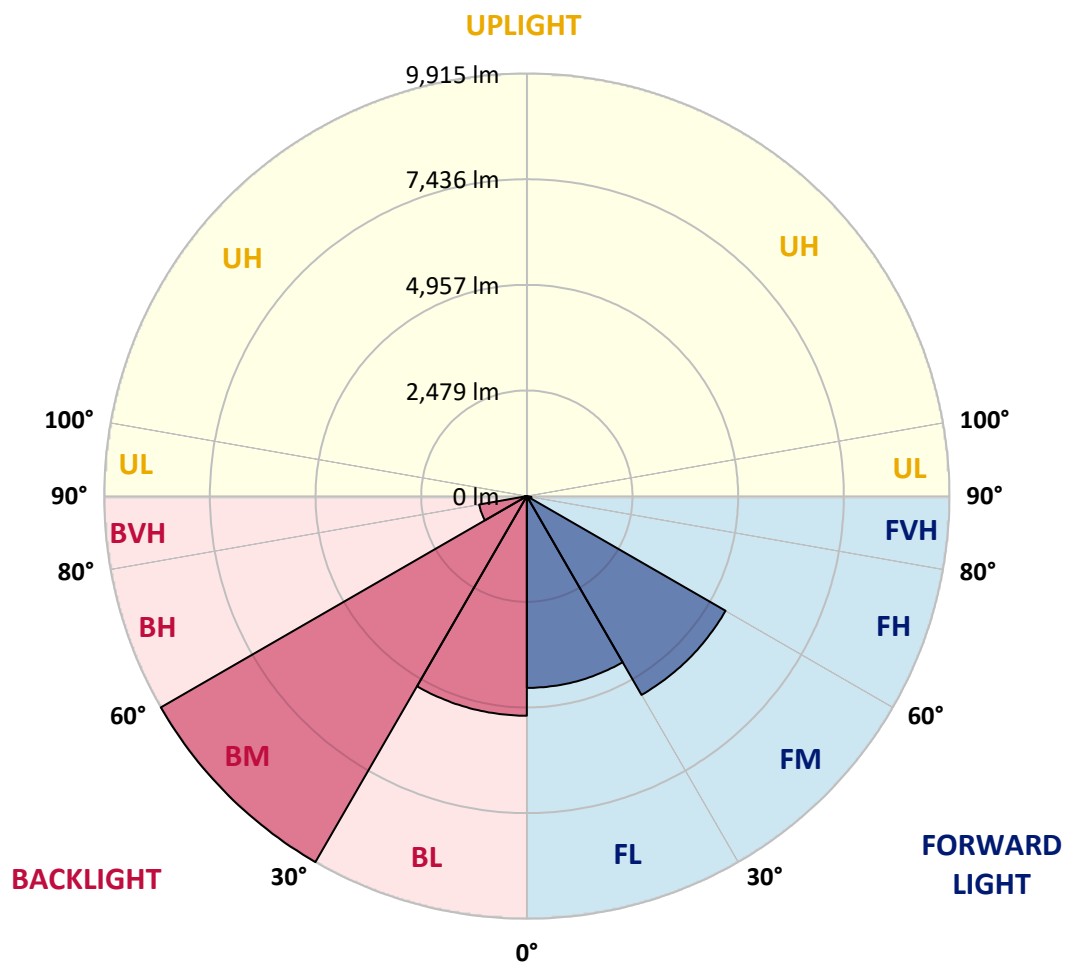
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4498.0	17.1			
FM (30°-60°)	5383.9	20.5			
FH (60°-80°)	107.9	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5151.1	19.6	B5		
BM (30°-60°)	9914.6	37.8	B5		
BH (60°-80°)	1134.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.2	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°	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3
2.5°	11375.4	11302.1	11232.7	11209.6	11306.0	11410.2	11344.6	11348.4	11325.3	11367.7
5°	11460.3	11360.0	11313.7	11279.0	11294.4	11402.4	11309.9	11344.6	11306.0	11356.1
7.5°	11429.4	11360.0	11313.7	11248.1	11298.3	11425.6	11336.9	11340.7	11321.4	11367.7
10°	11410.2	11360.0	11302.1	11309.9	11367.7	11475.7	11406.3	11444.9	11417.9	11444.9
12.5°	11456.4	11402.4	11371.6	11371.6	11421.7	11545.2	11510.4	11545.2	11533.6	11556.7
15°	11020.6	11070.7	11363.9	11495.0	11595.3	11718.7	11703.3	11738.0	11745.7	11780.5
17.5°	9296.3	9246.2	9223.0	9898.1	11691.7	12073.6	12062.0	12058.2	12019.6	11992.6
20°	9523.9	9504.6	9477.6	9527.7	9728.3	12258.8	12335.9	11861.5	11722.6	11711.0
22.5°	9886.5	9855.6	9755.3	9759.2	9820.9	10658.0	11954.0	11522.0	11475.7	11448.7
25°	10063.9	10002.2	9921.2	9898.1	9917.3	9763.0	10677.2	11190.3	10962.7	10858.5
27.5°	9751.5	9755.3	9689.8	9751.5	9678.2	8983.9	8594.3	10542.2	10534.5	10488.2
30°	9516.2	9504.6	9427.5	9504.6	8999.3	8223.9	8058.1	9832.5	9751.5	9689.8
32.5°	8794.8	8802.6	9026.3	9327.2	8497.8	7884.5	7383.0	8783.3	9550.9	9516.2
35°	6291.4	6306.8	7101.4	8586.5	7737.9	7209.5	7170.9	7591.3	9234.6	9250.0
37.5°	6056.1	6056.1	6036.8	6279.8	7140.0	6935.6	7012.7	6970.3	8459.2	8497.8
40°	5886.4	5851.7	5824.7	5442.8	4964.5	6742.7	6796.7	6603.8	7996.4	8004.1
42.5°	5681.9	5643.4	5651.1	4945.2	4443.7	6264.4	6114.0	5855.5	7224.9	7232.6
45°	5307.8	5373.3	5419.6	4328.0	4289.4	4474.6	5639.5	5477.5	6704.1	6846.9
47.5°	2700.2	2758.0	4231.6	3980.8	4069.5	3977.0	4763.9	4767.7	5577.8	6052.2
50°	2449.4	2434.0	2437.9	2322.1	3757.1	3217.1	3444.6	4370.4	4466.9	5145.8
52.5°	2283.6	2279.7	2044.4	1816.8	2360.7	2831.3	2499.6	3163.1	3321.2	4358.8
55°	1689.5	1813.0	1612.4	1708.8	1477.4	2268.1	2256.6	2854.5	2908.5	3494.8
57.5°	15.4	19.3	46.3	1299.9	1022.2	1134.1	1558.4	1948.0	2044.4	2723.3
60°	3.9	7.7	19.3	38.6	663.5	698.2	1041.5	1126.4	1269.1	1624.0
62.5°	0.0	0.0	7.7	19.3	34.7	285.4	331.7	362.6	559.3	829.3
65°	0.0	0.0	3.9	11.6	19.3	46.3	81.0	169.7	243.0	300.9
67.5°	0.0	0.0	3.9	7.7	15.4	23.1	46.3	65.6	104.1	177.4
70°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	46.3	61.7	88.7
72.5°	0.0	0.0	3.9	7.7	7.7	23.1	23.1	34.7	46.3	57.9
75°	0.0	0.0	3.9	3.9	7.7	15.4	23.1	27.0	30.9	46.3
77.5°	0.0	0.0	3.9	7.7	11.6	15.4	19.3	30.9	27.0	27.0
80°	0.0	0.0	3.9	11.6	11.6	19.3	23.1	30.9	19.3	19.3
82.5°	0.0	0.0	3.9	15.4	11.6	38.6	38.6	42.4	15.4	15.4
85°	0.0	0.0	11.6	7.7	23.1	38.6	34.7	23.1	19.3	11.6
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	27.0	23.1	7.7	7.7
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°
11325.3	0°	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3	11325.3
11255.9	2.5°	11410.2	11360.0	11464.2	11452.6	11402.4	11379.3	11352.3	11329.1	11159.4
11263.6	5°	11414.0	11336.9	11464.2	11441.0	11433.3	11394.7	11371.6	11406.3	11252.0
11294.4	7.5°	11414.0	11336.9	11475.7	11483.4	11471.9	11441.0	11437.2	11460.3	11333.0
11348.4	10°	11491.2	11460.3	11576.0	11587.6	11572.2	11564.4	11545.2	11529.7	11394.7
11533.6	12.5°	11653.2	11591.4	11722.6	11757.3	11745.7	11765.0	11718.7	11741.9	11603.0
11722.6	15°	11849.9	11853.8	11954.0	12031.2	12023.5	12085.2	12015.8	12077.5	11977.2
11938.6	17.5°	12150.8	12193.2	12335.9	12451.6	12494.1	12540.4	12494.1	12513.4	12370.6
11699.5	20°	11834.5	11992.6	12679.2	12891.4	12980.1	13022.5	12945.4	12968.5	12825.8
11406.3	22.5°	11549.0	11753.5	12362.9	13026.4	13300.3	13385.1	13358.1	13354.3	13300.3
10827.7	25°	11128.6	11541.3	11815.2	12517.2	13377.4	13531.7	13547.1	13543.3	13462.3
10472.8	27.5°	10611.7	10704.2	11414.0	11842.2	12837.4	13423.7	13400.6	13288.7	13180.7
9736.0	30°	9952.1	10372.5	10692.7	11375.4	12139.2	13092.0	13092.0	13007.1	12895.2
9473.7	32.5°	9616.5	10160.4	10457.4	10704.2	11356.1	12721.7	12876.0	12787.2	12698.5
9269.3	35°	9439.0	9520.0	10214.4	10438.1	10989.7	12008.0	12632.9	12544.2	12478.6
8725.4	37.5°	9049.4	9238.4	9562.5	10160.4	10330.1	11425.6	12308.9	12262.6	12185.5
8019.5	40°	8181.5	8686.8	9184.4	9751.5	9928.9	10677.2	11915.5	11934.8	11830.6
7267.3	42.5°	7668.5	8011.8	8791.0	9172.9	9651.2	10195.1	11533.6	11564.4	11491.2
6885.4	45°	7066.7	7448.6	7996.4	8690.7	9342.6	9531.6	10858.5	11182.6	11120.8
6125.5	47.5°	6515.1	6823.7	7494.9	8196.9	8918.3	8891.3	10083.2	10692.7	10607.8
5543.1	50°	5732.1	6272.1	6588.4	7232.6	8308.8	8382.1	9257.7	10117.9	10048.5
4709.9	52.5°	4833.3	5512.2	6117.8	6708.0	7691.6	7865.2	8490.1	9531.6	9485.3
3598.9	55°	4223.8	4717.6	5400.3	5874.8	6943.3	7406.2	7915.4	8972.3	8949.1
2958.6	57.5°	3004.9	3957.7	4520.9	5184.3	5747.5	6584.6	6962.6	7834.4	7618.3
1639.4	60°	2036.7	2484.2	3170.8	3884.4	4262.4	5099.5	5450.5	6148.7	6090.8
979.8	62.5°	1076.2	1489.0	1978.8	2337.6	2611.5	3425.4	3571.9	4324.1	4304.8
393.5	65°	474.5	628.8	1072.4	1257.5	1539.1	1917.1	2044.4	2314.4	2248.9
192.9	67.5°	246.9	374.2	605.6	744.5	937.3	1080.1	1184.2	1269.1	1323.1
127.3	70°	150.4	273.9	374.2	516.9	644.2	759.9	840.9	956.6	1026.1
65.6	72.5°	111.9	173.6	258.4	397.3	466.7	601.8	682.8	767.6	829.3
54.0	75°	61.7	115.7	208.3	312.4	374.2	489.9	563.2	621.0	640.3
30.9	77.5°	38.6	88.7	173.6	243.0	293.2	397.3	378.0	432.0	478.3
23.1	80°	27.0	65.6	135.0	200.6	204.4	254.6	300.9	347.2	378.0
15.4	82.5°	19.3	54.0	100.3	154.3	135.0	196.7	235.3	270.0	196.7
11.6	85°	15.4	38.6	50.1	92.6	77.1	138.9	119.6	115.7	77.1
7.7	87.5°	11.6	19.3	34.7	42.4	30.9	30.9	38.6	46.3	38.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11325.3  
11043.7  
11120.8  
11186.4  
11282.9  
11479.6  
11811.3  
12247.2  
12725.5  
13126.7  
**13338.8**  
13095.8  
12852.8  
12625.2  
12386.1  
12108.3  
11807.5  
11483.4  
11128.6  
10669.5  
10060.1  
9516.2  
8976.1  
7595.2  
6094.7  
4308.7  
2221.9  
1323.1  
1029.9  
840.9  
628.8  
486.0  
381.9  
142.7  
77.1  
38.6  
0.0

(END OF REPORT)