

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: P638530

Luminaire Tested: **IFLD-L-SA7E-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638530  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30585.2 lumens  
Efficiency: N/A  
Efficacy: 57.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

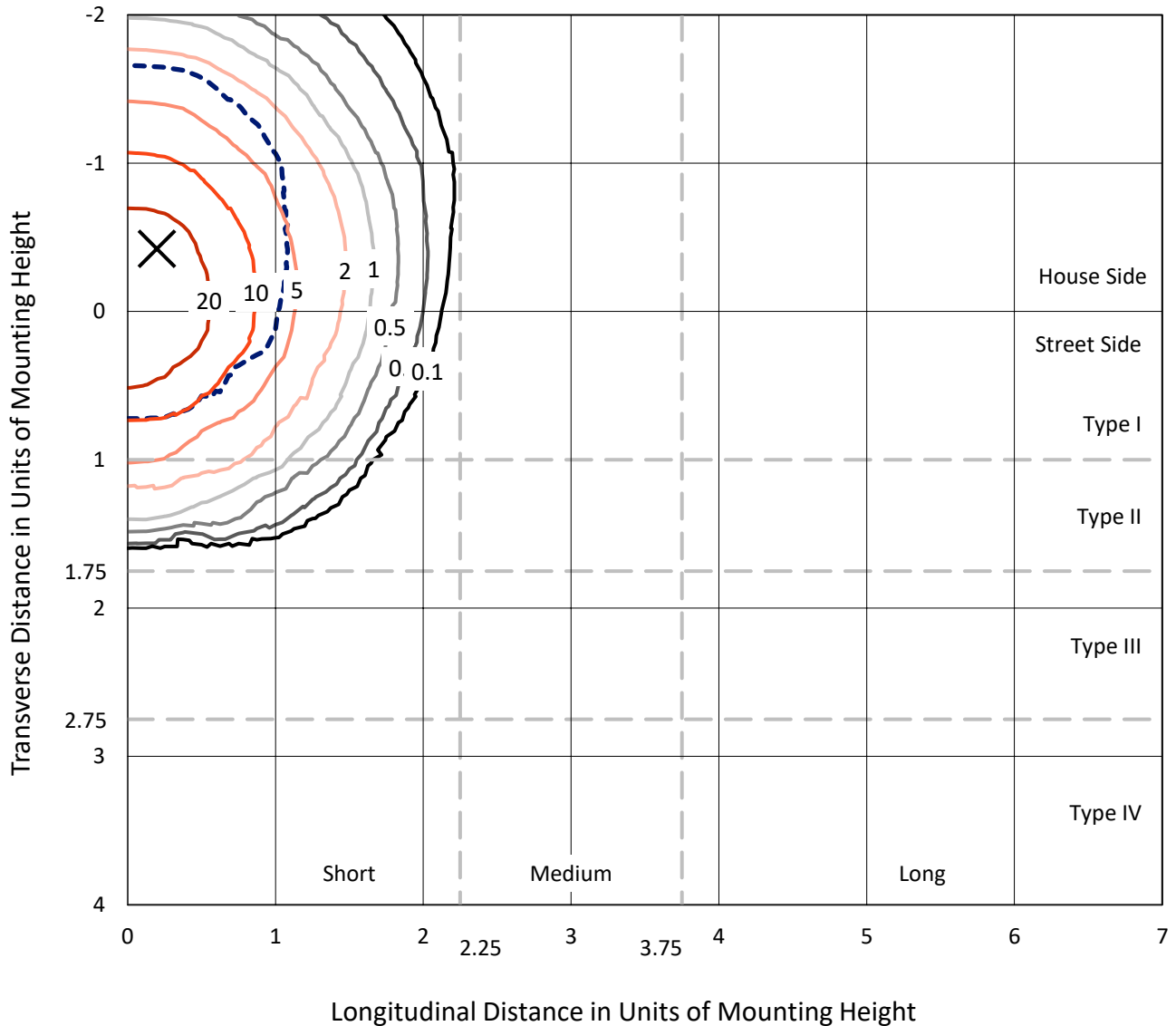
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

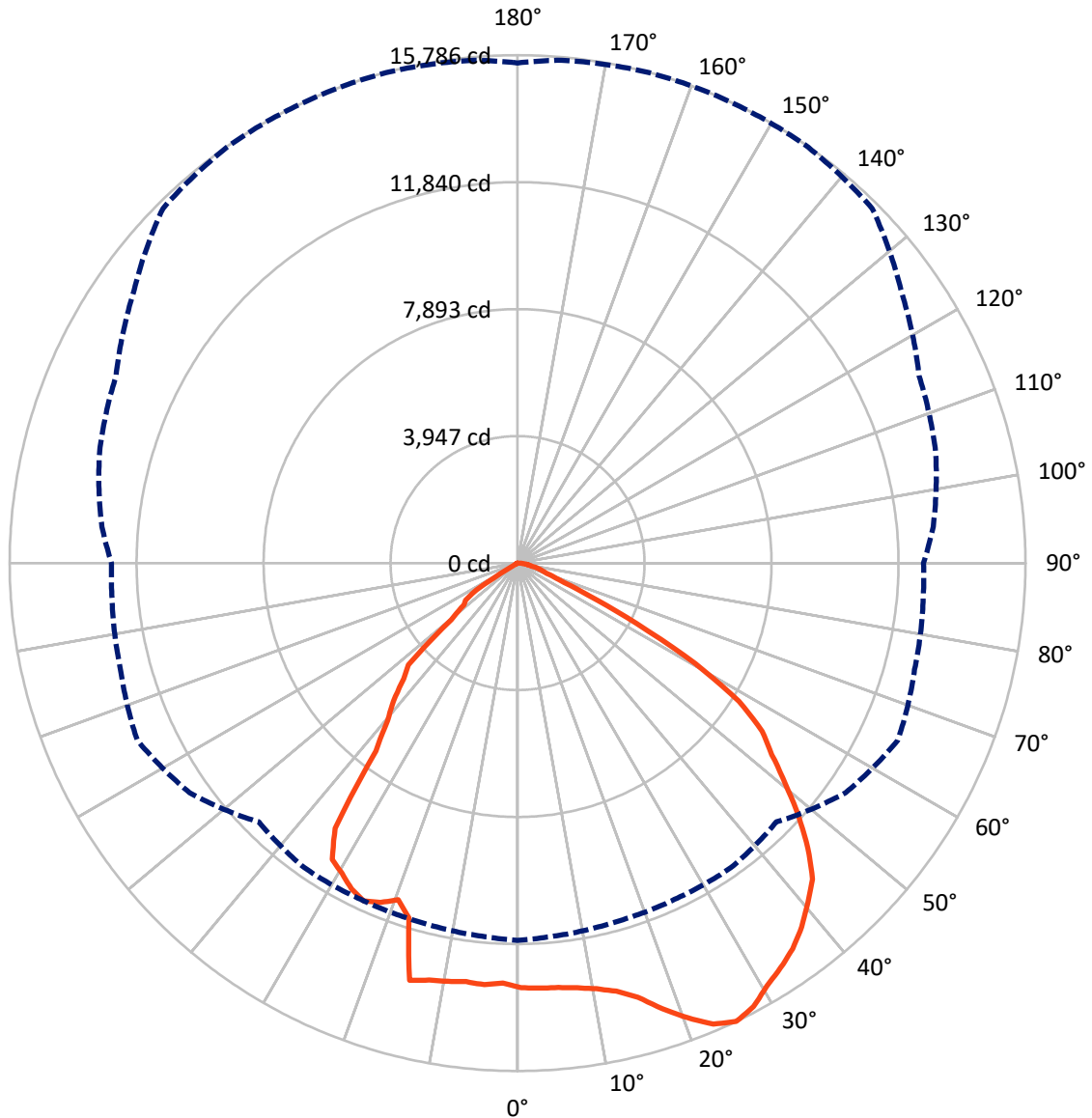
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33 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	18935.3	0.0	18935.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11649.8	0.0	11649.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	30585.2	0.0	30585.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1266.1	4.1
10°-20°	3865.9	12.6
20°-30°	6111.7	20.0
30°-40°	6903.8	22.6
40°-50°	6465.5	21.1
50°-60°	4457.5	14.6
60°-70°	1197.6	3.9
70°-80°	249.6	0.8
80°-90°	67.5	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°	30585.2	100.0
0°-180°	30585.2	100.0



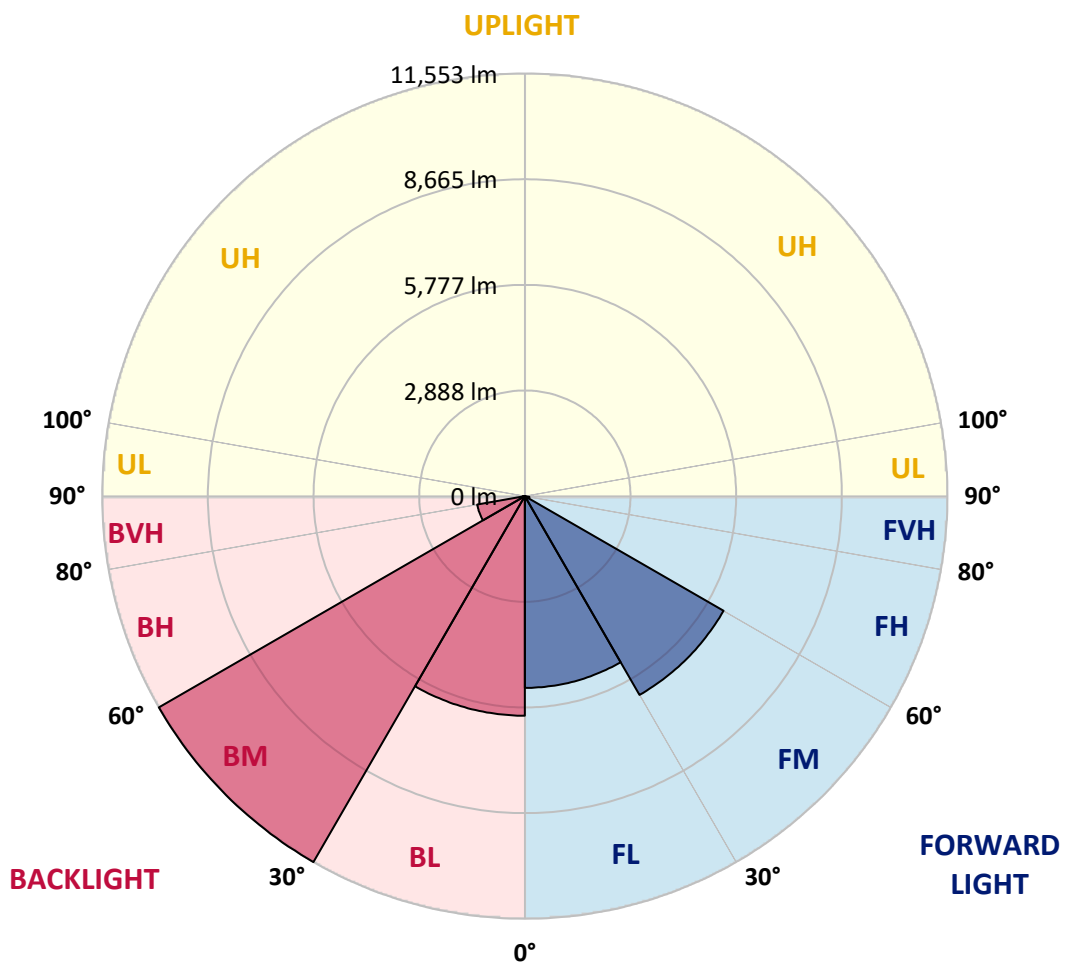
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5241.3	17.1			
FM (30°-60°)	6273.7	20.5			
FH (60°-80°)	125.7	0.4			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	6002.4	19.6	B5		
BM (30°-60°)	11553.1	37.8	B5		
BH (60°-80°)	1321.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.5	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°	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9
2.5°	13255.4	13170.0	13089.1	13062.1	13174.5	13295.8	13219.4	13223.9	13196.9	13246.4
5°	13354.3	13237.4	13183.5	13143.0	13161.0	13286.8	13179.0	13219.4	13174.5	13232.9
7.5°	13318.3	13237.4	13183.5	13107.0	13165.5	13313.8	13210.4	13214.9	13192.4	13246.4
10°	13295.8	13237.4	13170.0	13179.0	13246.4	13372.2	13291.3	13336.3	13304.8	13336.3
12.5°	13349.8	13286.8	13250.9	13250.9	13309.3	13453.2	13412.7	13453.2	13439.7	13466.6
15°	12841.8	12900.3	13241.9	13394.7	13511.6	13655.4	13637.4	13677.9	13686.9	13727.3
17.5°	10832.6	10774.2	10747.2	11533.8	13624.0	14068.9	14055.5	14051.0	14006.0	13974.6
20°	11097.8	11075.4	11043.9	11102.3	11336.1	14284.7	14374.6	13821.7	13659.9	13646.4
22.5°	11520.4	11484.4	11367.5	11372.0	11443.9	12419.3	13929.6	13426.2	13372.2	13340.8
25°	11727.1	11655.2	11560.8	11533.8	11556.3	11376.5	12441.8	13039.6	12774.4	12653.1
27.5°	11363.0	11367.5	11291.1	11363.0	11277.6	10468.6	10014.6	12284.5	12275.5	12221.6
30°	11088.8	11075.4	10985.5	11075.4	10486.5	9583.1	9389.8	11457.4	11363.0	11291.1
32.5°	10248.3	10257.3	10518.0	10868.6	9902.2	9187.5	8603.2	10234.8	11129.3	11088.8
35°	7331.1	7349.1	8275.1	10005.6	9016.7	8400.9	8356.0	8845.9	10760.7	10778.7
37.5°	7056.9	7056.9	7034.5	7317.7	8320.0	8081.8	8171.7	8122.2	9857.3	9902.2
40°	6859.2	6818.7	6787.3	6342.3	5784.9	7857.0	7920.0	7695.2	9317.9	9326.9
42.5°	6620.9	6576.0	6585.0	5762.4	5178.1	7299.7	7124.4	6823.2	8418.9	8427.9
45°	6184.9	6261.4	6315.3	5043.2	4998.3	5214.1	6571.5	6382.7	7812.1	7978.4
47.5°	3146.4	3213.8	4930.9	4638.7	4742.1	4634.2	5551.2	5555.7	6499.6	7052.5
50°	2854.2	2836.3	2840.8	2705.9	4378.0	3748.7	4013.9	5092.7	5205.1	5996.2
52.5°	2661.0	2656.5	2382.3	2117.1	2750.9	3299.2	2912.7	3685.8	3870.1	5079.2
55°	1968.8	2112.6	1878.9	1991.2	1721.5	2643.0	2629.5	3326.2	3389.1	4072.4
57.5°	18.0	22.5	53.9	1514.8	1191.1	1321.5	1815.9	2269.9	2382.3	3173.4
60°	4.5	9.0	22.5	44.9	773.1	813.6	1213.6	1312.5	1478.8	1892.3
62.5°	0.0	0.0	9.0	22.5	40.5	332.6	386.6	422.5	651.8	966.4
65°	0.0	0.0	4.5	13.5	22.5	53.9	94.4	197.8	283.2	350.6
67.5°	0.0	0.0	4.5	9.0	18.0	27.0	53.9	76.4	121.4	206.8
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	53.9	71.9	103.4
72.5°	0.0	0.0	4.5	9.0	9.0	27.0	27.0	40.5	53.9	67.4
75°	0.0	0.0	4.5	4.5	9.0	18.0	27.0	31.5	36.0	53.9
77.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	36.0	31.5	31.5
80°	0.0	0.0	4.5	13.5	13.5	22.5	27.0	36.0	22.5	22.5
82.5°	0.0	0.0	4.5	18.0	13.5	44.9	44.9	49.4	18.0	18.0
85°	0.0	0.0	13.5	9.0	27.0	44.9	40.5	27.0	22.5	13.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	31.5	27.0	9.0	9.0
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°
13196.9	0°	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9	13196.9
13116.0	2.5°	13295.8	13237.4	13358.8	13345.3	13286.8	13259.9	13228.4	13201.4	13003.7
13125.0	5°	13300.3	13210.4	13358.8	13331.8	13322.8	13277.9	13250.9	13291.3	13111.5
13161.0	7.5°	13300.3	13210.4	13372.2	13381.2	13367.7	13331.8	13327.3	13354.3	13205.9
13223.9	10°	13390.2	13354.3	13489.1	13502.6	13484.6	13475.6	13453.2	13435.2	13277.9
13439.7	12.5°	13579.0	13507.1	13659.9	13700.4	13686.9	13709.4	13655.4	13682.4	13520.6
13659.9	15°	13808.2	13812.7	13929.6	14019.5	14010.5	14082.4	14001.5	14073.4	13956.6
13911.6	17.5°	14158.8	14208.3	14374.6	14509.4	14558.9	14612.8	14558.9	14581.4	14415.1
13632.9	20°	13790.3	13974.6	14774.6	15021.9	15125.2	15174.7	15084.8	15111.8	14945.4
13291.3	22.5°	13457.6	13695.9	14406.1	15179.2	15498.3	15597.2	15565.7	15561.2	15498.3
12617.1	25°	12967.7	13448.7	13767.8	14585.9	15588.2	15768.0	15786.0	15781.5	15687.1
12203.6	27.5°	12365.4	12473.3	13300.3	13799.3	14958.9	15642.2	15615.2	15484.8	15359.0
11345.1	30°	11596.8	12086.7	12459.8	13255.4	14145.4	15255.6	15255.6	15156.7	15026.4
11039.4	32.5°	11205.7	11839.5	12185.6	12473.3	13232.9	14824.1	15003.9	14900.5	14797.1
10801.2	35°	10999.0	11093.3	11902.4	12163.1	12805.9	13992.5	14720.7	14617.3	14540.9
10167.4	37.5°	10545.0	10765.2	11142.8	11839.5	12037.3	13313.8	14343.1	14289.2	14199.3
9344.8	40°	9533.6	10122.5	10702.3	11363.0	11569.8	12441.8	13884.7	13907.1	13785.8
8468.3	42.5°	8935.8	9335.8	10243.8	10688.8	11246.2	11879.9	13439.7	13475.6	13390.2
8023.3	45°	8234.6	8679.6	9317.9	10126.9	10886.6	11106.8	12653.1	13030.6	12958.7
7137.9	47.5°	7591.8	7951.4	8733.5	9551.6	10392.1	10360.7	11749.6	12459.8	12360.9
6459.1	50°	6679.4	7308.7	7677.2	8427.9	9682.0	9767.4	10787.7	11790.0	11709.1
5488.2	52.5°	5632.1	6423.2	7128.9	7816.6	8962.8	9165.0	9893.2	11106.8	11052.9
4193.7	55°	4921.9	5497.2	6292.8	6845.7	8090.8	8630.2	9223.5	10455.1	10428.1
3447.6	57.5°	3501.5	4611.7	5268.0	6041.1	6697.4	7672.7	8113.2	9129.1	8877.4
1910.3	60°	2373.3	2894.7	3694.8	4526.3	4966.8	5942.2	6351.3	7164.8	7097.4
1141.7	62.5°	1254.1	1735.0	2305.9	2723.9	3043.0	3991.4	4162.3	5038.8	5016.3
458.5	65°	552.9	732.7	1249.6	1465.3	1793.5	2234.0	2382.3	2696.9	2620.5
224.7	67.5°	287.7	436.0	705.7	867.5	1092.3	1258.6	1379.9	1478.8	1541.7
148.3	70°	175.3	319.1	436.0	602.3	750.6	885.5	979.9	1114.7	1195.6
76.4	72.5°	130.4	202.3	301.2	463.0	543.9	701.2	795.6	894.5	966.4
62.9	75°	71.9	134.8	242.7	364.1	436.0	570.8	656.3	723.7	746.1
36.0	77.5°	44.9	103.4	202.3	283.2	341.6	463.0	440.5	503.4	557.4
27.0	80°	31.5	76.4	157.3	233.7	238.2	296.7	350.6	404.5	440.5
18.0	82.5°	22.5	62.9	116.9	179.8	157.3	229.2	274.2	314.6	229.2
13.5	85°	18.0	44.9	58.4	107.9	89.9	161.8	139.3	134.8	89.9
9.0	87.5°	13.5	22.5	40.5	49.4	36.0	36.0	44.9	53.9	44.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13196.9  
12868.8  
12958.7  
13035.1  
13147.5  
13376.7  
13763.3  
14271.2  
14828.6  
15296.0  
*15543.3*  
15260.1  
14976.9  
14711.7  
14433.0  
14109.4  
13758.8  
13381.2  
12967.7  
12432.8  
11722.6  
11088.8  
10459.6  
8850.4  
7101.9  
5020.8  
2589.0  
1541.7  
1200.1  
979.9  
732.7  
566.4  
445.0  
166.3  
89.9  
44.9  
0.0

(END OF REPORT)