

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: P638563

Luminaire Tested: **IFLD-L-SA8D-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638563  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32648.6 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

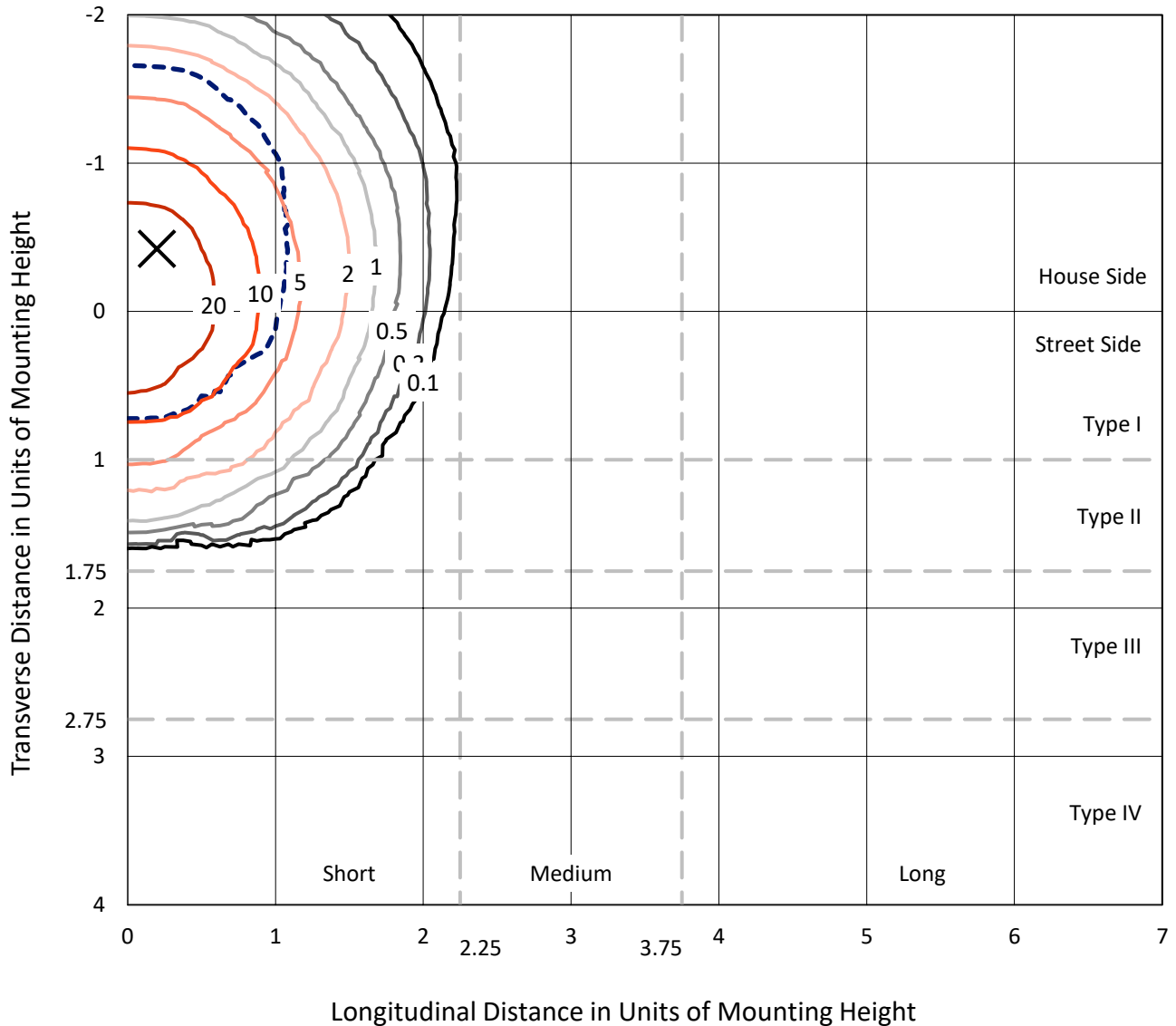
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

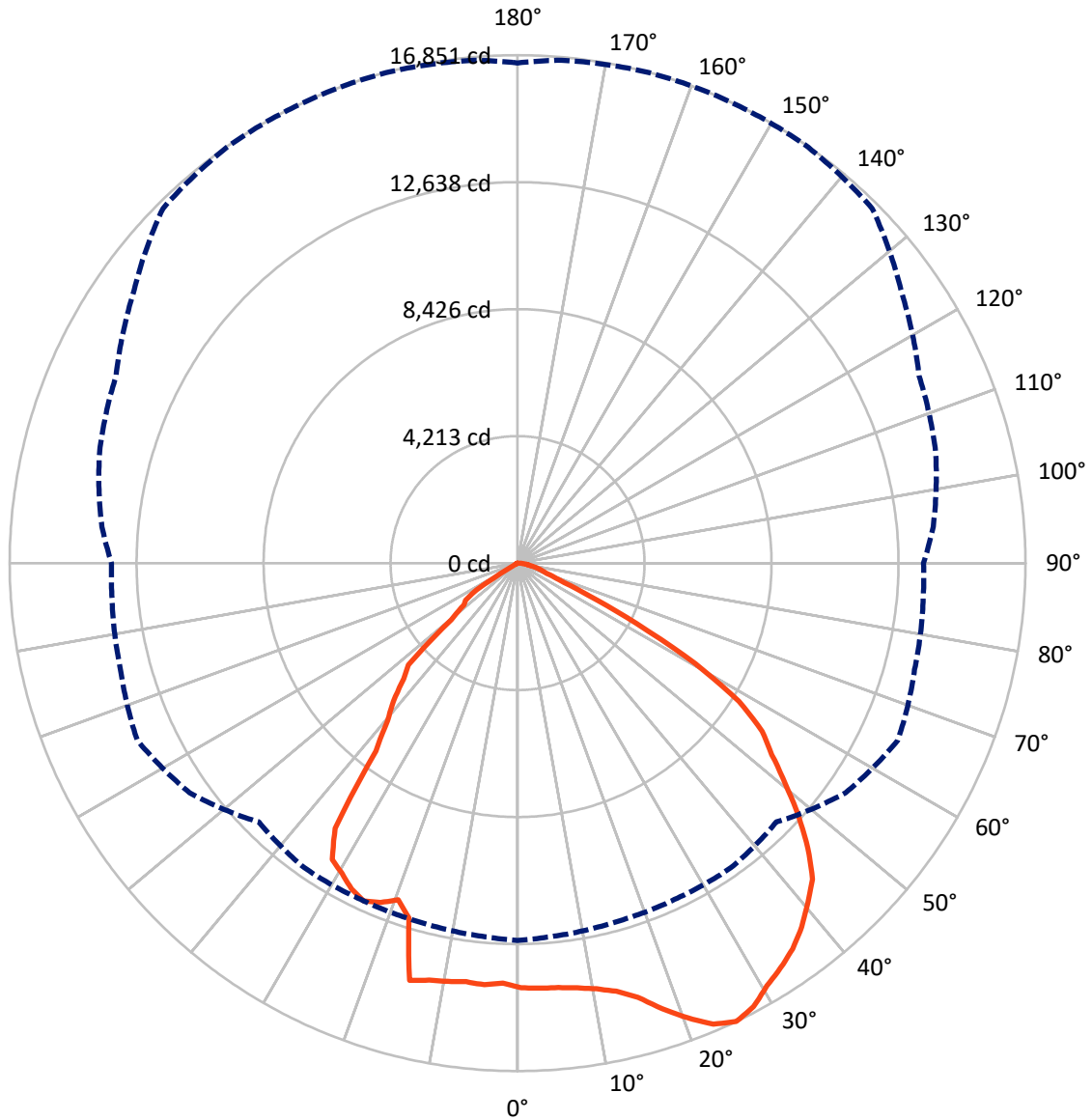
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.2 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	20212.8	0.0	20212.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	12435.8	0.0	12435.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	32648.6	0.0	32648.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1351.5	4.1
10°-20°	4126.7	12.6
20°-30°	6524.1	20.0
30°-40°	7369.5	22.6
40°-50°	6901.7	21.1
50°-60°	4758.2	14.6
60°-70°	1278.4	3.9
70°-80°	266.4	0.8
80°-90°	72.1	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°	32648.6	100.0
0°-180°	32648.6	100.0



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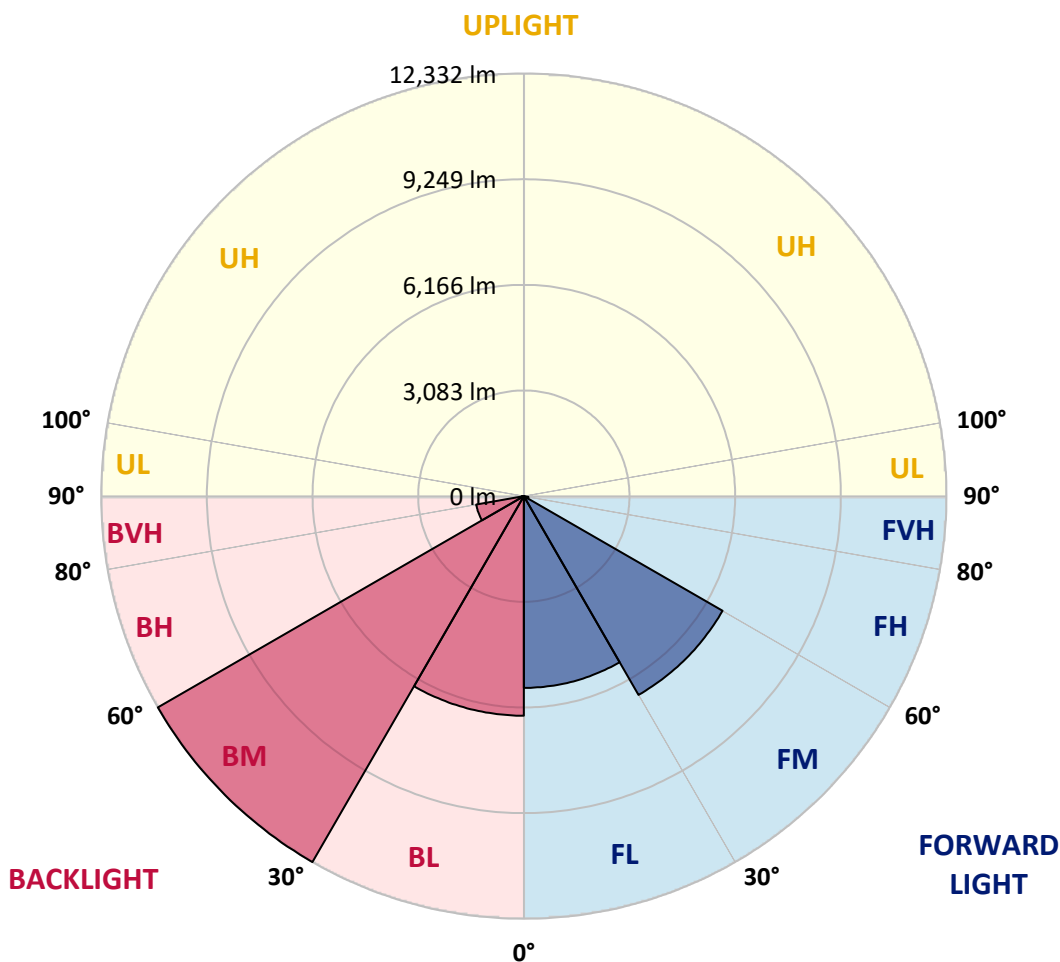
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5594.9	17.1			
FM (30°-60°)	6697.0	20.5			
FH (60°-80°)	134.2	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	6407.3	19.6	B5		
BM (30°-60°)	12332.5	37.8	B5		
BH (60°-80°)	1410.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	62.4	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°	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3
2.5°	14149.7	14058.5	13972.1	13943.3	14063.3	14192.8	14111.3	14116.1	14087.3	14140.1
5°	14255.2	14130.5	14072.9	14029.7	14048.9	14183.2	14068.1	14111.3	14063.3	14125.7
7.5°	14216.8	14130.5	14072.9	13991.3	14053.7	14212.0	14101.7	14106.5	14082.5	14140.1
10°	14192.8	14130.5	14058.5	14068.1	14140.1	14274.4	14188.0	14236.0	14202.4	14236.0
12.5°	14250.4	14183.2	14144.9	14144.9	14207.2	14360.8	14317.6	14360.8	14346.4	14375.2
15°	13708.2	13770.6	14135.3	14298.4	14423.1	14576.7	14557.5	14600.7	14610.3	14653.5
17.5°	11563.5	11501.1	11472.3	12312.0	14543.1	15018.1	15003.7	14998.9	14950.9	14917.4
20°	11846.6	11822.6	11789.0	11851.4	12100.9	15248.4	15344.4	14754.2	14581.5	14567.1
22.5°	12297.6	12259.2	12134.4	12139.2	12216.0	13257.2	14869.4	14332.0	14274.4	14240.8
25°	12518.3	12441.5	12340.8	12312.0	12336.0	12144.0	13281.2	13919.3	13636.3	13506.7
27.5°	12129.6	12134.4	12052.9	12129.6	12038.5	11174.8	10690.2	13113.3	13103.7	13046.1
30°	11837.0	11822.6	11726.6	11822.6	11194.0	10229.6	10023.3	12230.4	12129.6	12052.9
32.5°	10939.7	10949.3	11227.6	11601.9	10570.3	9807.4	9183.6	10925.3	11880.1	11837.0
35°	7825.7	7844.9	8833.3	10680.6	9625.0	8967.7	8919.7	9442.7	11486.7	11505.9
37.5°	7533.0	7533.0	7509.1	7811.3	8881.3	8627.0	8723.0	8670.2	10522.3	10570.3
40°	7321.9	7278.7	7245.2	6770.1	6175.2	8387.1	8454.3	8214.4	9946.5	9956.1
42.5°	7067.6	7019.6	7029.2	6151.2	5527.4	7792.1	7605.0	7283.5	8986.9	8996.5
45°	6602.2	6683.8	6741.4	5383.5	5335.5	5565.8	7014.8	6813.3	8339.1	8516.7
47.5°	3358.7	3430.7	5263.5	4951.7	5062.0	4946.9	5925.7	5930.5	6938.1	7528.2
50°	3046.8	3027.6	3032.4	2888.5	4673.4	4001.6	4284.7	5436.3	5556.2	6400.7
52.5°	2840.5	2835.7	2543.0	2259.9	2936.4	3521.8	3109.2	3934.5	4131.2	5421.9
55°	2101.6	2255.1	2005.6	2125.6	1837.7	2821.3	2806.9	3550.6	3617.8	4347.1
57.5°	19.2	24.0	57.6	1617.0	1271.5	1410.6	1938.4	2423.0	2543.0	3387.5
60°	4.8	9.6	24.0	48.0	825.3	868.5	1295.5	1401.1	1578.6	2020.0
62.5°	0.0	0.0	9.6	24.0	43.2	355.1	412.6	451.0	695.7	1031.6
65°	0.0	0.0	4.8	14.4	24.0	57.6	100.8	211.1	302.3	374.3
67.5°	0.0	0.0	4.8	9.6	19.2	28.8	57.6	81.6	129.5	220.7
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	57.6	76.8	110.4
72.5°	0.0	0.0	4.8	9.6	9.6	28.8	28.8	43.2	57.6	72.0
75°	0.0	0.0	4.8	4.8	9.6	19.2	28.8	33.6	38.4	57.6
77.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	38.4	33.6	33.6
80°	0.0	0.0	4.8	14.4	14.4	24.0	28.8	38.4	24.0	24.0
82.5°	0.0	0.0	4.8	19.2	14.4	48.0	48.0	52.8	19.2	19.2
85°	0.0	0.0	14.4	9.6	28.8	48.0	43.2	28.8	24.0	14.4
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	33.6	28.8	9.6	9.6
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°
14087.3	0°	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3	14087.3
14000.9	2.5°	14192.8	14130.5	14260.0	14245.6	14183.2	14154.5	14120.9	14092.1	13881.0
14010.5	5°	14197.6	14101.7	14260.0	14231.2	14221.6	14173.6	14144.9	14188.0	13996.1
14048.9	7.5°	14197.6	14101.7	14274.4	14284.0	14269.6	14231.2	14226.4	14255.2	14096.9
14116.1	10°	14293.6	14255.2	14399.2	14413.5	14394.4	14384.8	14360.8	14341.6	14173.6
14346.4	12.5°	14495.1	14418.3	14581.5	14624.7	14610.3	14634.3	14576.7	14605.5	14432.7
14581.5	15°	14739.8	14744.6	14869.4	14965.3	14955.7	15032.5	14946.1	15022.9	14898.2
14850.2	17.5°	15114.1	15166.9	15344.4	15488.3	15541.1	15598.7	15541.1	15565.1	15387.6
14552.7	20°	14720.6	14917.4	15771.4	16035.3	16145.7	16198.4	16102.5	16131.3	15953.7
14188.0	22.5°	14365.6	14619.9	15378.0	16203.2	16543.9	16649.5	16615.9	16611.1	16543.9
13468.3	25°	13842.6	14356.0	14696.6	15569.9	16639.9	16831.8	16851.0	16846.2	16745.4
13026.9	27.5°	13199.6	13314.8	14197.6	14730.2	15968.1	16697.5	16668.7	16529.5	16395.2
12110.5	30°	12379.1	12902.1	13300.4	14149.7	15099.7	16284.8	16284.8	16179.3	16040.1
11784.2	32.5°	11961.7	12638.2	13007.7	13314.8	14125.7	15824.2	16016.1	15905.8	15795.4
11529.9	35°	11741.0	11841.8	12705.4	12983.7	13669.8	14936.5	15713.8	15603.5	15521.9
10853.3	37.5°	11256.4	11491.5	11894.5	12638.2	12849.4	14212.0	15310.8	15253.2	15157.3
9975.3	40°	10176.8	10805.4	11424.3	12129.6	12350.4	13281.2	14821.4	14845.4	14715.8
9039.7	42.5°	9538.7	9965.7	10934.9	11409.9	12004.9	12681.4	14346.4	14384.8	14293.6
8564.6	45°	8790.2	9265.2	9946.5	10810.2	11621.0	11856.2	13506.7	13909.7	13833.0
7619.4	47.5°	8104.0	8487.9	9322.7	10196.0	11093.3	11059.7	12542.3	13300.4	13194.8
6894.9	50°	7130.0	7801.7	8195.2	8996.5	10335.1	10426.3	11515.5	12585.5	12499.1
5858.5	52.5°	6012.0	6856.5	7609.8	8343.9	9567.4	9783.4	10560.7	11856.2	11798.6
4476.6	55°	5253.9	5868.1	6717.4	7307.5	8636.6	9212.4	9845.7	11160.4	11131.6
3680.2	57.5°	3737.7	4922.9	5623.4	6448.7	7149.2	8190.4	8660.6	9745.0	9476.3
2039.2	60°	2533.4	3090.0	3944.1	4831.7	5301.9	6343.1	6779.7	7648.2	7576.2
1218.7	62.5°	1338.7	1852.1	2461.4	2907.7	3248.3	4260.7	4443.1	5378.7	5354.7
489.4	65°	590.2	782.1	1333.9	1564.2	1914.4	2384.7	2543.0	2878.9	2797.3
239.9	67.5°	307.1	465.4	753.3	926.0	1165.9	1343.5	1473.0	1578.6	1645.8
158.3	70°	187.1	340.7	465.4	642.9	801.3	945.2	1046.0	1189.9	1276.3
81.6	72.5°	139.1	215.9	321.5	494.2	580.6	748.5	849.3	954.8	1031.6
67.2	75°	76.8	143.9	259.1	388.6	465.4	609.4	700.5	772.5	796.5
38.4	77.5°	48.0	110.4	215.9	302.3	364.7	494.2	470.2	537.4	595.0
28.8	80°	33.6	81.6	167.9	249.5	254.3	316.7	374.3	431.8	470.2
19.2	82.5°	24.0	67.2	124.8	191.9	167.9	244.7	292.7	335.9	244.7
14.4	85°	19.2	48.0	62.4	115.2	96.0	172.7	148.7	143.9	96.0
9.6	87.5°	14.4	24.0	43.2	52.8	38.4	38.4	48.0	57.6	48.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
14087.3  
13737.0  
13833.0  
13914.5  
14034.5  
14279.2  
14691.8  
15234.0  
15829.0  
16328.0  
*16591.9*  
16289.6  
15987.3  
15704.2  
15406.8  
15061.3  
14687.0  
14284.0  
13842.6  
13271.6  
12513.5  
11837.0  
11165.2  
9447.5  
7581.0  
5359.5  
2763.7  
1645.8  
1281.1  
1046.0  
782.1  
604.6  
475.0  
177.5  
96.0  
48.0  
0.0

(END OF REPORT)