

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: P638001

Luminaire Tested: **IFLD-M-SA4C-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638001  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17623.2 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

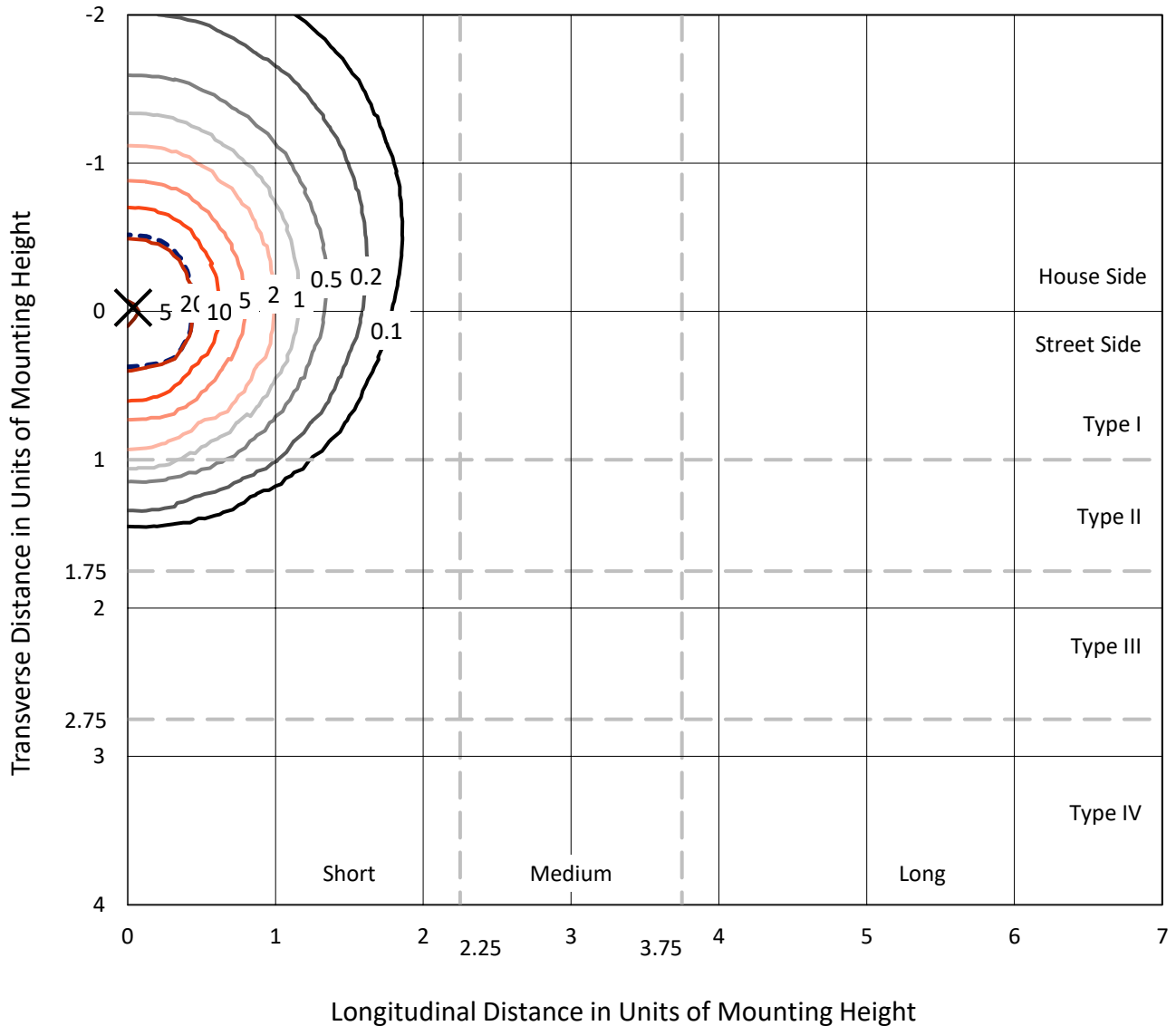
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

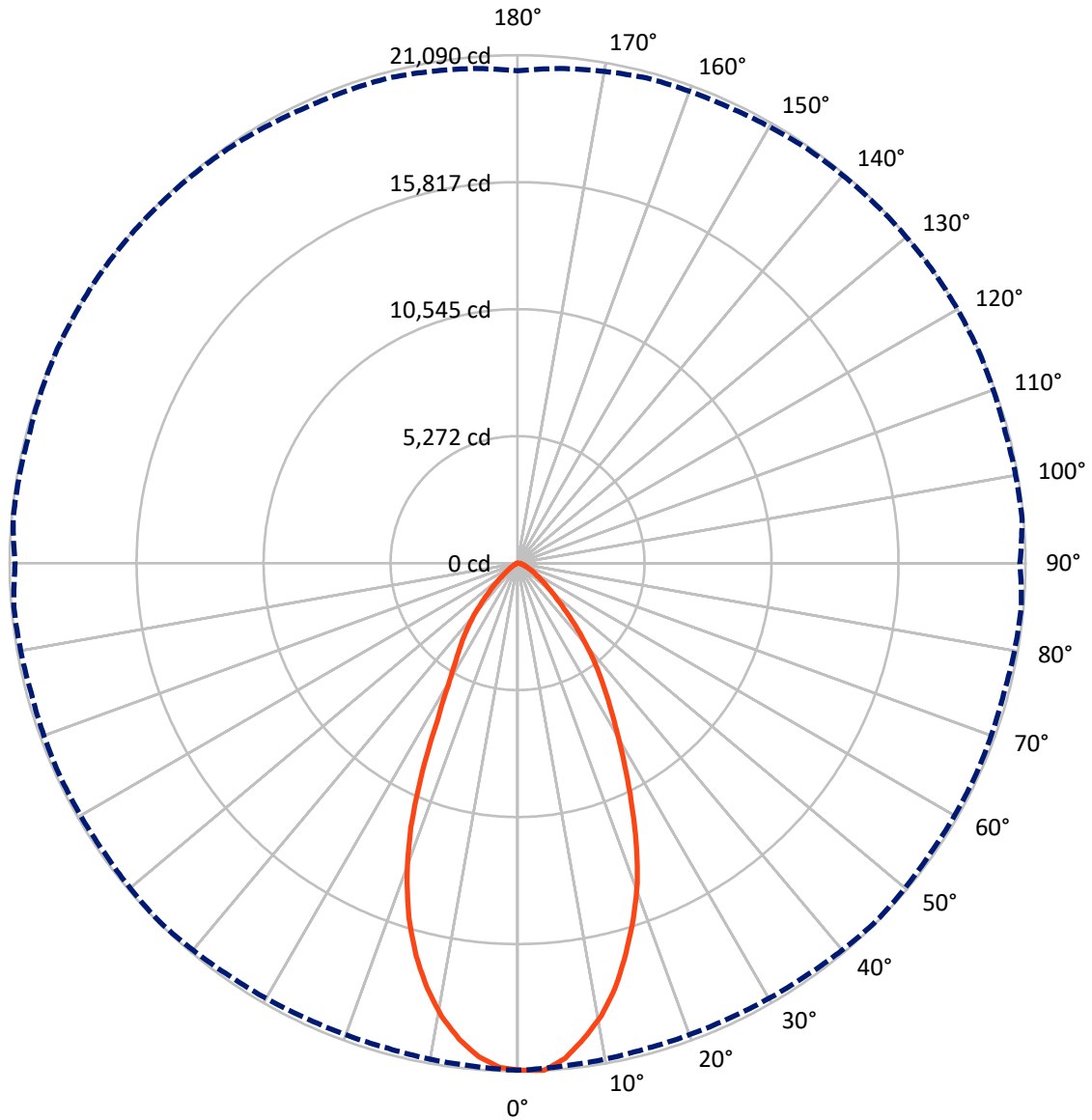
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10000.1	0.0	10000.1
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7623.1	0.0	7623.1
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	17623.2	0.0	17623.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1911.9	10.8
10°-20°	4557.6	25.9
20°-30°	4641.8	26.3
30°-40°	3461.4	19.6
40°-50°	1808.3	10.3
50°-60°	760.6	4.3
60°-70°	310.6	1.8
70°-80°	130.7	0.7
80°-90°	40.3	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°	17623.2	100.0
0°-180°	17623.2	100.0



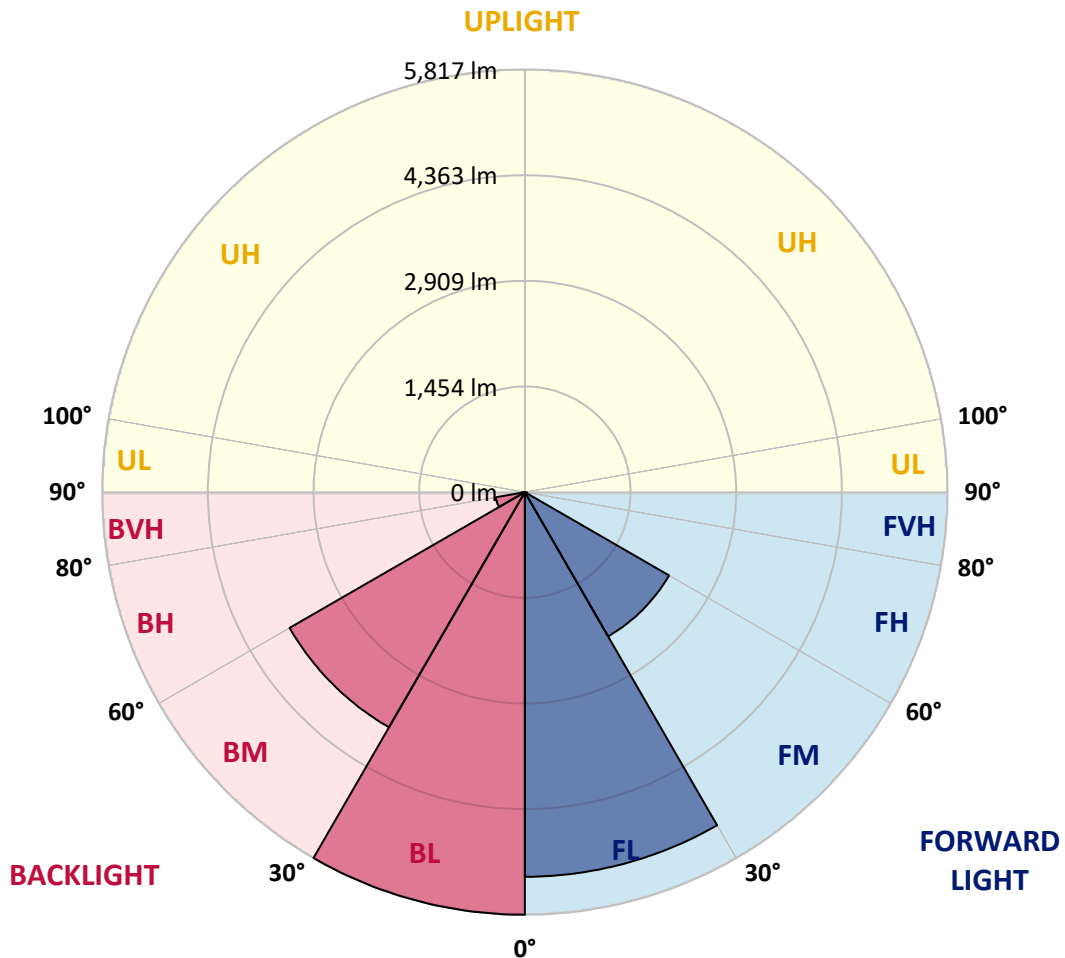
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5294.2	30.0			
FM (30°-60°)	2292.0	13.0			
FH (60°-80°)	33.2	0.2			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	5817.1	33.0	B5		
BM (30°-60°)	3738.3	21.2	B3/5000		
BH (60°-80°)	408.2	2.3	B1/500		G1/500
BVH (80°-90°)	36.5	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5
2.5°	21057.8	20971.8	20849.5	20838.2	20901.6	21039.7	20951.4	20955.9	20901.6	20994.4
5°	20727.3	20645.8	20562.0	20451.1	20543.9	20602.8	20557.5	20507.7	20437.5	20528.0
7.5°	20102.5	20057.2	19932.7	19882.9	19939.5	20005.1	19907.8	19894.2	19796.8	19914.6
10°	19147.1	19129.0	19006.8	18977.4	19027.2	19126.8	19083.8	19074.7	19013.6	19002.3
12.5°	18155.6	18085.4	17933.7	17924.7	17999.4	18148.8	18033.4	17922.4	17956.4	17985.8
15°	15602.0	15527.3	15903.1	16494.0	16804.1	16792.8	16826.8	16693.2	16652.4	16666.0
17.5°	12403.3	12276.5	12412.4	13326.9	14800.7	15656.4	15420.9	15133.4	14979.5	14877.6
20°	10705.5	10712.3	10687.4	10922.8	11841.9	13793.3	13736.7	13182.0	12980.6	12896.8
22.5°	9673.2	9634.7	9580.4	9655.1	9901.8	11047.3	11814.7	11305.4	11235.2	11142.4
25°	8661.3	8661.3	8595.6	8670.3	8740.5	8756.3	9526.0	9734.3	9598.5	9598.5
27.5°	7785.2	7739.9	7710.5	7744.4	7651.6	7205.6	7303.0	8369.2	8276.4	8219.8
30°	6915.9	6902.3	6852.5	6897.8	6553.7	6051.1	5847.4	7063.0	7160.4	7140.0
32.5°	5709.3	5763.6	5985.5	6055.6	5467.1	5061.8	4867.1	5863.2	6252.6	6236.7
35°	3880.1	3925.4	4179.0	5016.6	4532.1	4242.3	4185.7	4663.4	5304.1	5365.2
37.5°	3090.1	3083.3	3155.7	3305.1	3642.4	3572.3	3556.4	3680.9	4326.1	4353.3
40°	2546.8	2537.7	2535.4	2413.2	2329.4	2970.1	2927.1	2852.4	3411.5	3465.9
42.5°	2053.3	2062.3	2069.1	1802.0	1679.7	2291.0	2266.1	2189.1	2675.8	2739.2
45°	1611.8	1609.6	1623.1	1342.4	1308.5	1464.7	1693.3	1632.2	2019.3	2087.2
47.5°	835.3	864.8	1048.1	1039.1	1054.9	1039.1	1281.3	1265.5	1519.0	1627.7
50°	561.4	570.5	586.3	588.6	830.8	765.2	869.3	984.7	1064.0	1231.5
52.5°	434.6	441.4	400.7	375.8	509.4	565.9	570.5	681.4	742.5	912.3
55°	242.2	271.7	292.0	294.3	280.7	418.8	416.5	504.8	552.4	665.6
57.5°	31.7	38.5	58.9	190.2	187.9	233.2	292.0	366.7	393.9	486.7
60°	2.3	4.5	6.8	29.4	124.5	135.8	199.2	228.6	273.9	341.8
62.5°	0.0	0.0	2.3	6.8	24.9	79.2	104.1	120.0	160.7	224.1
65°	0.0	0.0	2.3	4.5	9.1	29.4	40.7	65.6	95.1	138.1
67.5°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	29.4	49.8	83.8
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	27.2	45.3
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	11.3	13.6	18.1	24.9
75°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	11.3	13.6	15.8
77.5°	0.0	0.0	2.3	4.5	6.8	11.3	9.1	11.3	11.3	11.3
80°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	11.3	9.1	9.1
82.5°	0.0	0.0	2.3	6.8	6.8	15.8	15.8	15.8	6.8	6.8
85°	0.0	0.0	4.5	6.8	11.3	18.1	18.1	13.6	6.8	4.5
87.5°	0.0	0.0	2.3	4.5	4.5	9.1	13.6	11.3	4.5	2.3
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°
21055.5	0°	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5	21055.5
20858.6	2.5°	21026.1	20969.5	21075.9	21089.5	21044.2	20987.6	20856.3	20845.0	20616.3
20396.7	5°	20627.7	20534.8	20602.8	20648.0	20632.2	20571.1	20516.7	20466.9	20260.9
19647.4	7.5°	19885.1	19851.2	19882.9	19916.8	19982.5	19916.8	19894.2	19842.1	19638.4
18909.4	10°	19061.1	18997.7	19117.7	19101.9	19083.8	19065.6	18970.6	18979.6	18739.7
17904.3	12.5°	18049.2	17942.8	18058.3	18071.8	18058.3	17994.9	17888.5	17933.7	17714.2
16546.0	15°	16688.7	16677.3	16761.1	16815.4	16853.9	16786.0	16749.8	16772.4	16641.1
14798.4	17.5°	15018.0	15165.1	15439.0	15531.9	15534.1	15604.3	15583.9	15556.8	15459.4
12862.9	20°	13053.0	13336.0	13757.1	14189.4	14313.9	14255.1	14227.9	14277.7	14132.8
11045.0	22.5°	11239.7	11481.9	11970.9	12602.5	12967.0	13003.2	12996.4	12953.4	12896.8
9589.4	25°	9700.3	9915.4	10384.0	10961.3	11660.8	11764.9	11769.4	11755.9	11706.1
8269.6	27.5°	8400.9	8661.3	8919.3	9435.5	10180.3	10610.4	10556.1	10540.2	10522.1
7155.8	30°	7223.8	7552.0	7794.2	8115.7	8783.5	9365.3	9421.9	9394.7	9351.7
6234.5	32.5°	6291.1	6485.8	6793.6	7011.0	7490.9	8149.6	8367.0	8346.6	8308.1
5403.7	35°	5480.6	5557.6	5799.8	6042.1	6361.3	6999.6	7321.1	7275.8	7269.0
4403.1	37.5°	4514.0	4772.1	4905.6	5150.1	5374.2	5870.0	6313.7	6293.3	6295.6
3540.6	40°	3644.7	3794.1	4059.0	4265.0	4471.0	4833.2	5326.7	5340.3	5335.8
2741.4	42.5°	2798.0	2942.9	3221.4	3445.5	3628.9	3853.0	4323.8	4339.7	4360.1
2134.8	45°	2184.6	2277.4	2481.1	2714.3	2909.0	3044.8	3402.5	3504.3	3506.6
1654.8	47.5°	1695.6	1802.0	1946.9	2171.0	2361.1	2458.5	2718.8	2856.9	2850.1
1270.0	50°	1331.1	1428.5	1546.2	1722.7	1928.7	2005.7	2198.1	2334.0	2327.2
957.6	52.5°	1018.7	1143.2	1247.3	1383.2	1584.7	1650.3	1788.4	1944.6	1922.0
701.8	55°	772.0	898.7	996.1	1109.3	1292.6	1376.4	1471.5	1596.0	1600.5
543.3	57.5°	581.8	713.1	801.4	916.8	1054.9	1147.7	1220.2	1353.7	1351.5
371.3	60°	416.5	529.7	636.1	756.1	862.5	968.9	1018.7	1145.5	1150.0
262.6	62.5°	301.1	407.5	509.4	613.5	708.6	812.7	858.0	957.6	971.2
172.0	65°	210.5	285.2	403.0	482.2	588.6	665.6	724.4	810.4	826.3
101.9	67.5°	135.8	206.0	319.2	389.4	486.7	552.4	613.5	681.4	701.8
65.6	70°	81.5	156.2	237.7	312.4	400.7	459.5	518.4	577.3	588.6
31.7	72.5°	52.1	108.7	172.0	253.5	321.5	384.8	436.9	479.9	446.0
20.4	75°	29.4	74.7	135.8	199.2	260.3	321.5	364.5	387.1	310.1
13.6	77.5°	18.1	54.3	110.9	160.7	201.5	258.1	285.2	298.8	221.9
9.1	80°	11.3	40.7	92.8	131.3	131.3	190.2	221.9	233.2	160.7
6.8	82.5°	9.1	29.4	72.4	99.6	88.3	142.6	174.3	176.6	113.2
4.5	85°	6.8	22.6	45.3	65.6	61.1	99.6	101.9	113.2	74.7
4.5	87.5°	4.5	13.6	27.2	38.5	34.0	47.5	54.3	61.1	40.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21055.5  
*20437.5*  
20095.7  
19595.4  
18658.2  
17650.8  
16482.7  
15314.5  
14028.7  
12788.2  
11538.5  
10415.7  
9297.4  
8206.2  
7194.3  
6223.2  
5256.5  
4292.1  
3447.8  
2825.2  
2327.2  
1924.2  
1600.5  
1347.0  
1138.7  
966.6  
821.8  
699.5  
579.5  
414.3  
294.3  
208.3  
149.4  
104.1  
67.9  
36.2  
0.0

(END OF REPORT)