

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: P638096

Luminaire Tested: **IFLD-L-SA8A-727-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638096  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22036 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

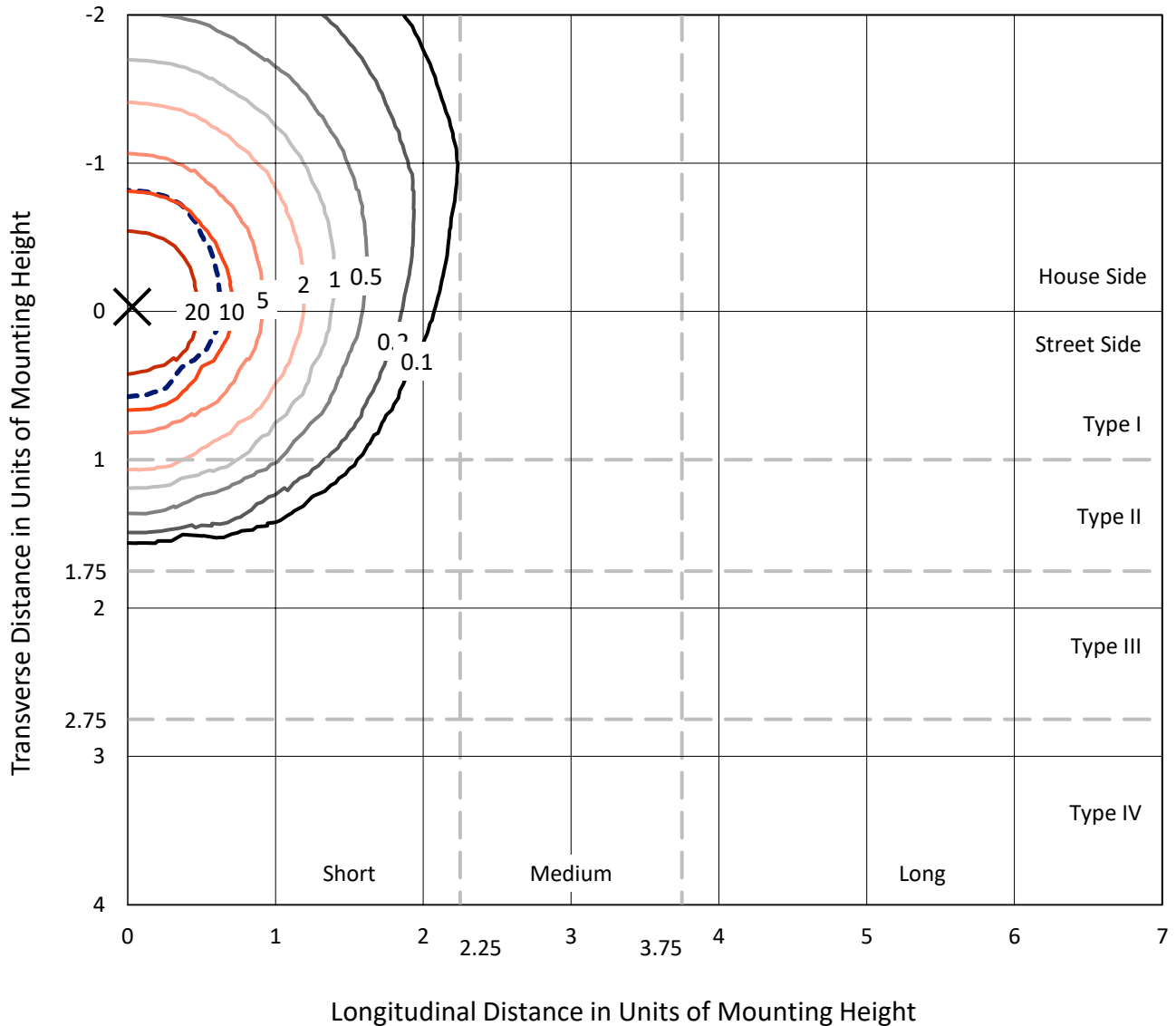
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

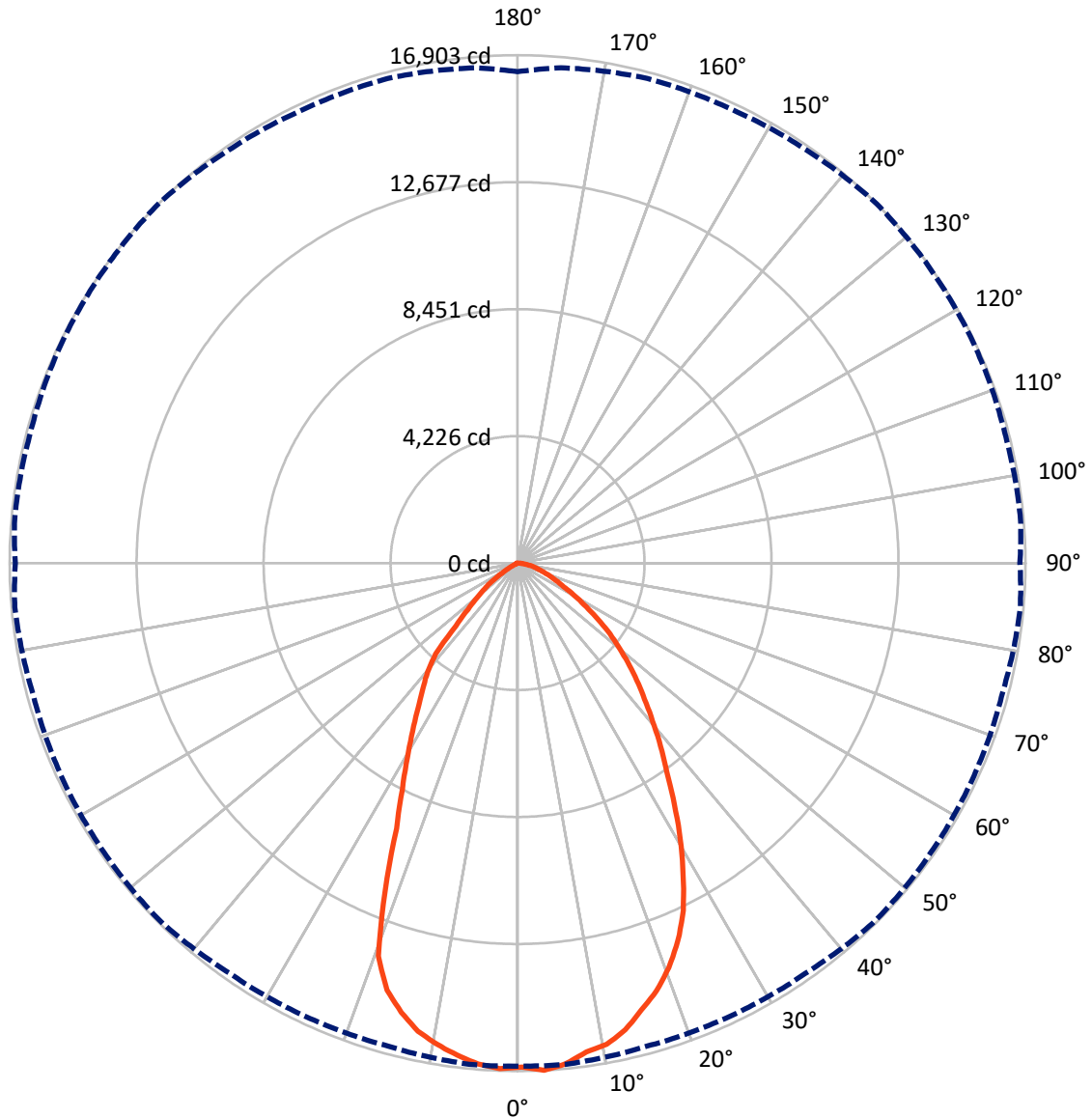
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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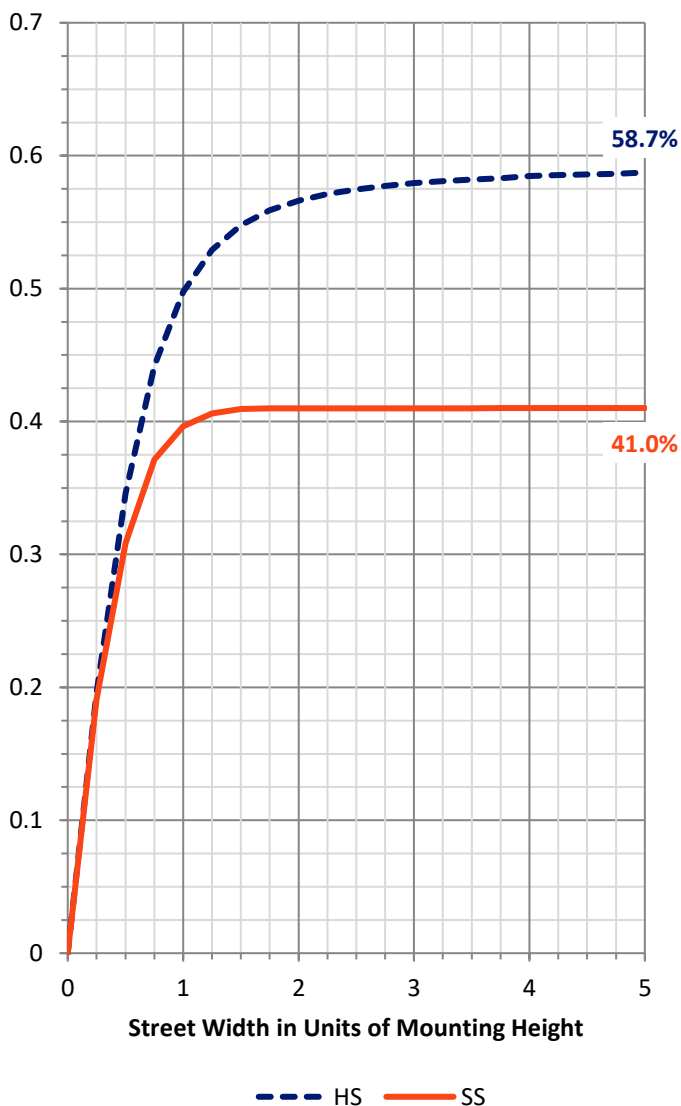
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13050.8	0.0	13050.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8985.1	0.0	8985.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	22036.0	0.0	22036.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1572.7	7.1
10°-20°	4217.3	19.1
20°-30°	5143.2	23.3
30°-40°	4695.7	21.3
40°-50°	3393.5	15.4
50°-60°	1852.9	8.4
60°-70°	766.1	3.5
70°-80°	310.3	1.4
80°-90°	84.4	0.4
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°	22036.0	100.0
0°-180°	22036.0	100.0



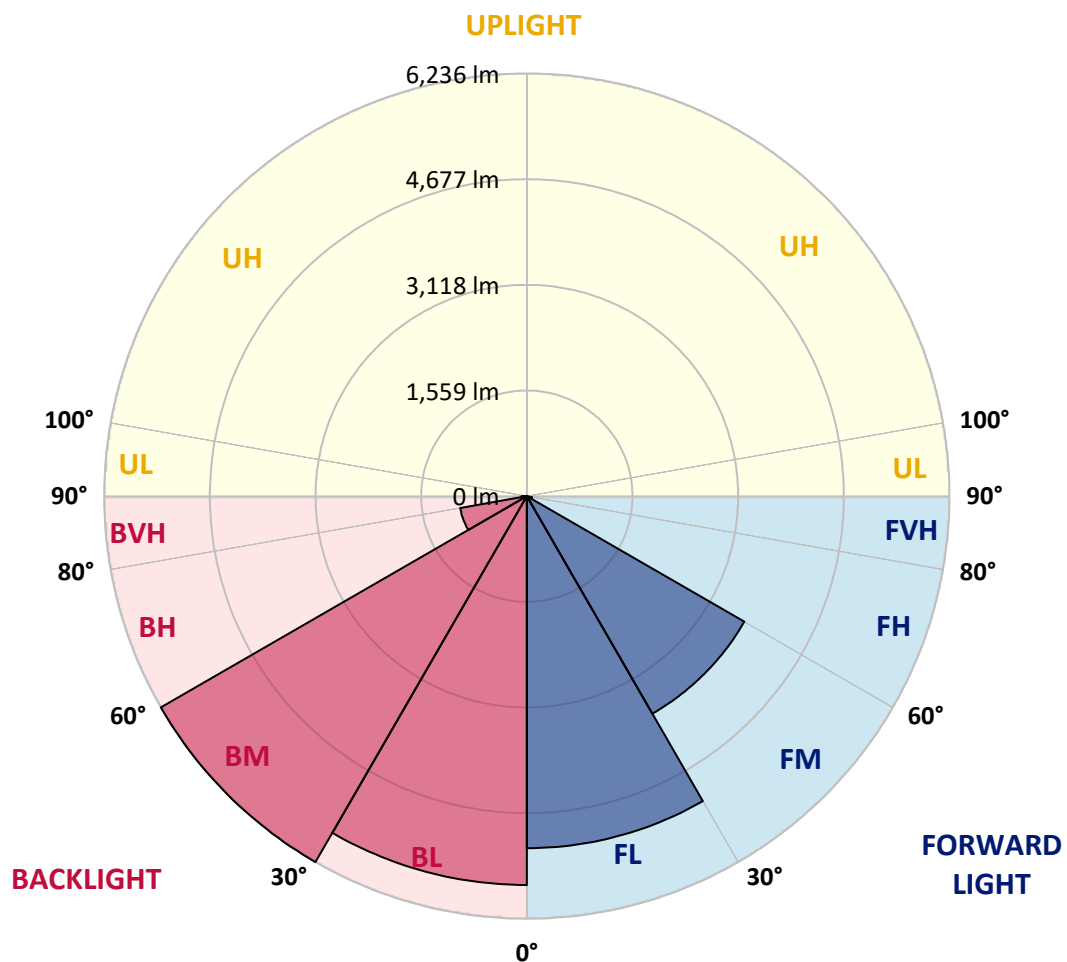
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5194.7	23.6			
FM (30°-60°)	3706.0	16.8			
FH (60°-80°)	77.6	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	5738.5	26.0	B5		
BM (30°-60°)	6236.0	28.3	B4/8500		
BH (60°-80°)	998.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	77.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3
2.5°	16738.3	16760.0	16642.1	16654.5	16676.2	16834.5	16794.1	16756.9	16704.1	16794.1
5°	16716.6	16729.0	16604.8	16561.4	16580.0	16722.8	16592.4	16592.4	16580.0	16564.5
7.5°	16549.0	16555.2	16459.0	16381.4	16431.1	16496.2	16400.0	16446.6	16378.3	16431.1
10°	16297.6	16257.3	16142.5	16120.8	16176.6	16238.7	16173.5	16216.9	16154.9	16195.2
12.5°	15928.4	15866.3	15773.2	15745.3	15841.5	15925.3	15872.5	15847.7	15767.0	15866.3
15°	14504.0	14457.5	14668.5	15037.8	15369.8	15441.2	15385.3	15410.1	15242.6	15270.5
17.5°	11937.7	11850.8	12077.4	12952.5	14199.9	14857.8	14808.1	14646.8	14398.5	14454.4
20°	10848.5	10823.7	10798.9	11006.8	11878.8	13874.1	13942.4	13532.7	13179.0	13101.4
22.5°	10234.1	10224.8	10200.0	10246.5	10476.2	11757.8	12539.7	12161.2	11925.3	11903.6
25°	9672.5	9656.9	9582.5	9641.4	9641.4	9715.9	10718.2	10947.8	10739.9	10715.1
27.5°	9101.5	9073.5	9061.1	9089.1	8946.3	8443.6	8698.1	9818.3	9709.7	9715.9
30°	8484.0	8474.6	8440.5	8499.5	8058.8	7435.1	7273.7	8794.3	8816.0	8809.8
32.5°	7565.4	7605.8	7760.9	7826.1	7100.0	6584.8	6314.9	7608.9	8052.6	8043.3
35°	5495.6	5495.6	6001.4	6941.7	6221.8	5833.9	5688.0	6451.4	7298.6	7329.6
37.5°	4518.2	4533.7	4633.0	5061.2	5368.4	5231.9	5188.4	5430.5	6330.4	6380.0
40°	4065.1	4065.1	4065.1	3888.2	3878.9	4713.7	4688.8	4611.2	5467.7	5576.3
42.5°	3652.4	3661.7	3667.9	3221.0	2972.8	4074.4	4018.6	3900.6	4695.0	4822.3
45°	3227.3	3242.8	3261.4	2693.5	2584.9	2932.5	3401.0	3270.7	3931.7	4096.1
47.5°	1970.5	1995.3	2417.3	2283.9	2296.3	2262.2	2774.2	2752.5	3224.2	3456.9
50°	1331.2	1340.6	1380.9	1449.2	1970.5	1778.1	1964.3	2277.7	2448.4	2802.1
52.5°	1117.1	1132.6	1033.3	940.2	1294.0	1390.2	1371.6	1691.2	1759.5	2197.0
55°	785.1	834.7	788.2	778.9	735.4	1079.9	1039.5	1300.2	1343.7	1669.5
57.5°	80.7	93.1	161.4	580.3	481.0	611.3	741.6	952.7	996.1	1231.9
60°	6.2	6.2	15.5	80.7	350.7	366.2	512.0	586.5	670.3	859.6
62.5°	0.0	3.1	6.2	12.4	55.9	195.5	257.6	307.2	403.4	555.5
65°	0.0	0.0	3.1	9.3	12.4	74.5	99.3	161.4	220.3	344.4
67.5°	0.0	0.0	3.1	6.2	9.3	18.6	34.1	59.0	117.9	195.5
70°	0.0	0.0	3.1	6.2	9.3	15.5	24.8	37.2	52.8	105.5
72.5°	0.0	0.0	3.1	3.1	6.2	15.5	18.6	24.8	37.2	52.8
75°	0.0	0.0	3.1	3.1	9.3	18.6	15.5	18.6	24.8	34.1
77.5°	0.0	0.0	3.1	6.2	9.3	18.6	15.5	18.6	18.6	21.7
80°	0.0	0.0	3.1	6.2	12.4	21.7	18.6	18.6	15.5	15.5
82.5°	0.0	0.0	3.1	9.3	12.4	27.9	27.9	24.8	12.4	9.3
85°	0.0	0.0	6.2	12.4	18.6	31.0	31.0	24.8	9.3	6.2
87.5°	0.0	0.0	6.2	9.3	15.5	21.7	31.0	24.8	9.3	3.1
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°
16769.3	0°	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3	16769.3
16716.6	2.5°	16800.3	16781.7	16843.8	16868.6	16902.7	16772.4	16691.7	16694.8	16545.9
16527.3	5°	16626.6	16629.7	16710.3	16704.1	16738.3	16666.9	16635.9	16583.1	16452.8
16288.3	7.5°	16406.2	16378.3	16455.9	16514.8	16428.0	16477.6	16406.2	16431.1	16353.5
16077.3	10°	16235.6	16170.4	16241.8	16282.1	16285.2	16235.6	16167.3	16102.1	16074.2
15748.4	12.5°	15857.0	15773.2	15894.2	15950.1	15940.8	15844.6	15767.0	15782.5	15692.5
15171.2	15°	15335.7	15338.8	15425.7	15478.4	15428.8	15407.0	15413.2	15376.0	15298.4
14373.7	17.5°	14538.2	14584.7	14814.3	14941.6	14969.5	14926.0	14904.3	14860.9	14783.3
13101.4	20°	13210.0	13489.3	13898.9	14293.0	14370.6	14358.2	14280.6	14262.0	14218.5
11841.5	22.5°	12043.2	12251.2	12725.9	13340.3	13656.9	13687.9	13594.8	13566.9	13520.3
10715.1	25°	10836.1	11059.5	11487.8	12155.0	12809.7	12943.1	12927.6	12843.8	12794.2
9715.9	27.5°	9818.3	10041.7	10429.6	11031.6	11732.9	12161.2	12201.5	12068.1	12065.0
8825.3	30°	8899.8	9207.0	9501.8	9992.1	10671.7	11314.0	11382.3	11289.2	11298.5
8009.2	32.5°	8179.8	8434.3	8685.7	9014.6	9579.4	10327.2	10594.1	10507.2	10473.1
7329.6	35°	7444.4	7618.2	7875.7	8176.7	8561.5	9303.2	9765.5	9700.4	9666.2
6411.1	37.5°	6606.6	6904.5	7090.6	7428.9	7729.9	8319.5	8971.1	8961.8	8890.5
5629.1	40°	5747.0	6060.4	6342.8	6684.1	6916.9	7385.4	8108.5	8105.4	8114.7
4819.2	42.5°	4968.1	5256.7	5598.0	5970.4	6193.8	6535.2	7311.0	7354.4	7407.2
4152.0	45°	4263.7	4524.4	4840.9	5293.9	5563.9	5759.4	6448.3	6646.9	6643.8
3556.2	47.5°	3630.7	3875.8	4142.7	4583.3	4927.8	5104.6	5675.6	5958.0	5939.4
2916.9	50°	3047.3	3264.5	3543.8	3863.4	4325.8	4480.9	4906.0	5278.4	5250.5
2324.2	52.5°	2451.5	2752.5	2988.3	3280.0	3767.2	3919.3	4248.2	4611.2	4589.5
1744.0	55°	1911.5	2203.2	2488.7	2740.1	3149.7	3376.2	3612.0	3984.4	3978.2
1365.4	57.5°	1446.1	1765.7	2035.7	2274.6	2600.4	2879.7	3069.0	3407.2	3450.7
934.0	60°	1070.6	1315.7	1607.4	1874.3	2131.8	2420.4	2547.7	2879.7	2898.3
639.2	62.5°	729.2	999.2	1284.7	1526.7	1719.1	2017.0	2131.8	2404.9	2439.1
409.6	65°	505.8	679.6	1005.4	1179.2	1415.0	1669.5	1784.3	2001.5	2069.8
235.8	67.5°	335.1	484.1	785.1	943.4	1176.1	1349.9	1495.7	1672.6	1747.1
149.0	70°	183.1	356.9	561.7	744.8	946.5	1114.0	1256.8	1399.5	1464.7
68.3	72.5°	124.1	238.9	391.0	589.6	763.4	927.8	1055.1	1160.6	1163.7
40.3	75°	62.1	161.4	297.9	456.2	595.8	757.2	872.0	934.0	859.6
24.8	77.5°	37.2	117.9	242.0	366.2	484.1	611.3	676.5	710.6	589.6
18.6	80°	21.7	83.8	189.3	291.7	335.1	450.0	512.0	521.3	394.1
12.4	82.5°	15.5	62.1	149.0	214.1	204.8	316.5	384.8	372.4	251.4
9.3	85°	9.3	43.4	93.1	133.4	124.1	207.9	223.4	229.6	145.8
6.2	87.5°	6.2	24.8	49.7	71.4	59.0	90.0	90.0	108.6	71.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16769.3  
*16353.5*  
16421.8  
16223.2  
15950.1  
15614.9  
15220.8  
14749.2  
14119.2  
13507.9  
12741.4  
12058.8  
11251.9  
10476.2  
9619.7  
8949.4  
8114.7  
7379.2  
6650.0  
5945.6  
5275.3  
4636.1  
3993.7  
3432.1  
2926.2  
2445.3  
2054.3  
1737.8  
1439.9  
1135.7  
803.7  
567.9  
369.3  
232.7  
133.4  
62.1  
0.0

(END OF REPORT)