

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: P638346

Luminaire Tested: **IFLD-S-SA6E-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638346  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32614.7 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

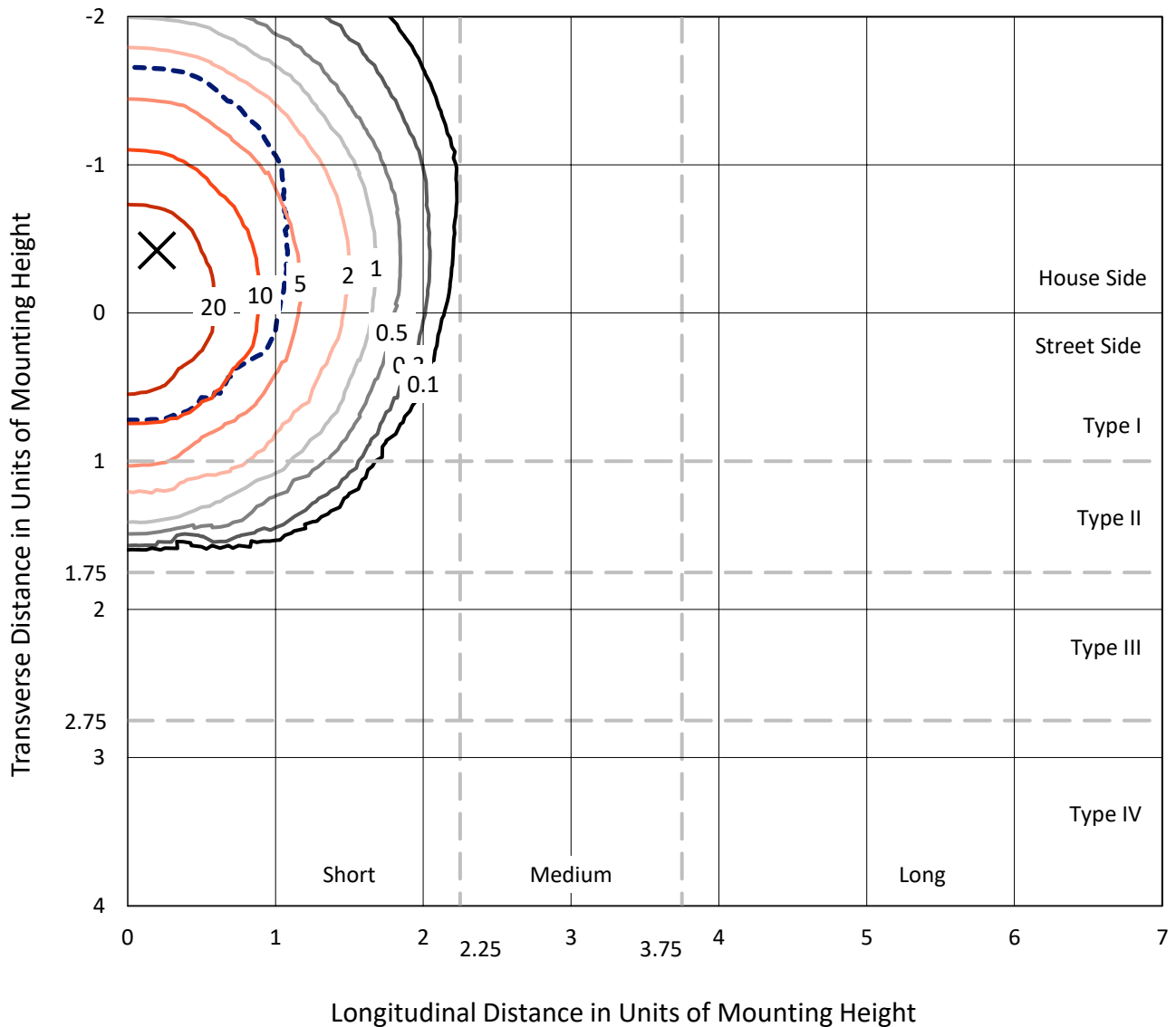
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638346  
 CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

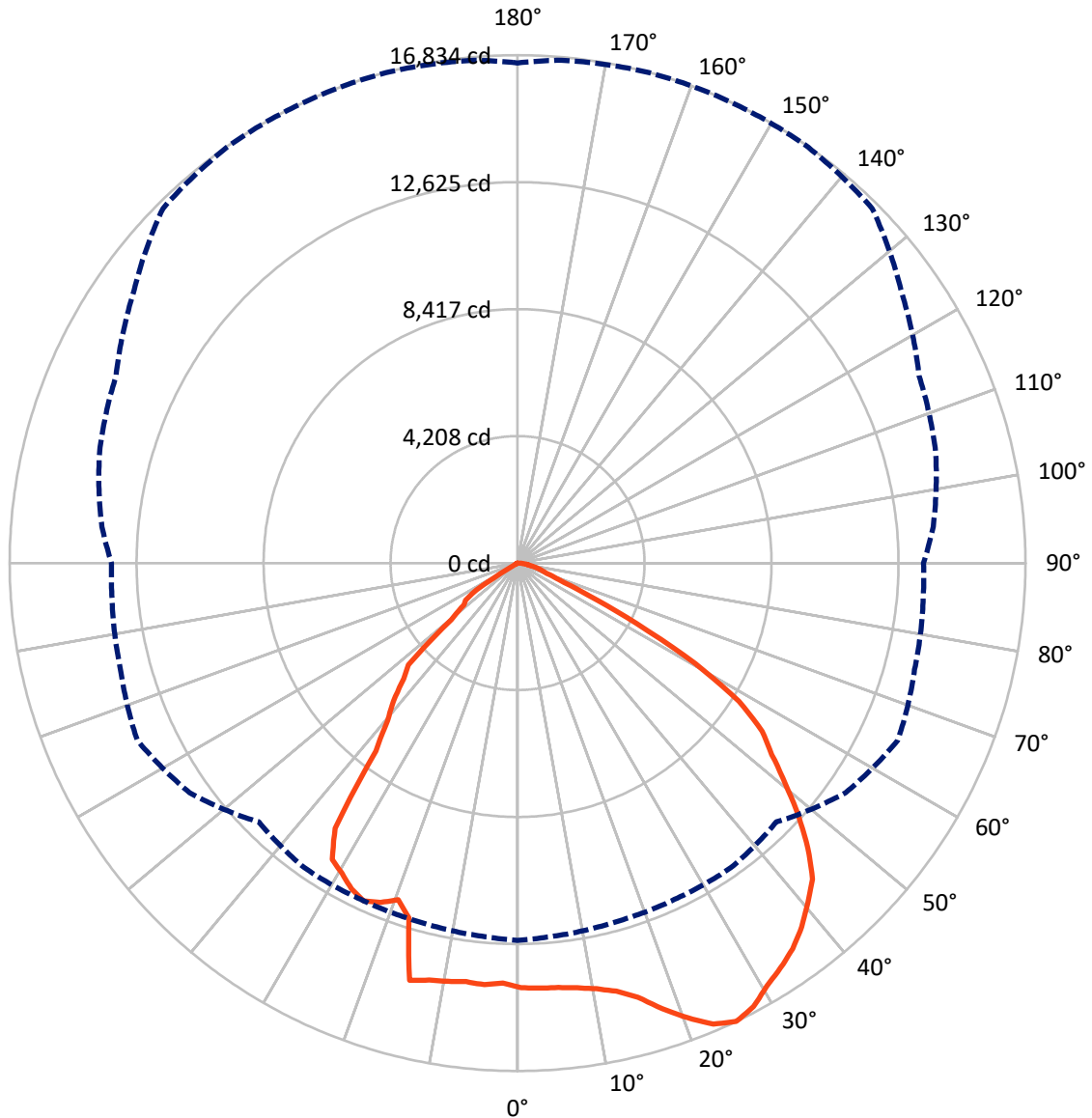
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.2 fc  
 Type I - Short - N/A

REPORT NUMBER: P638346  
CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

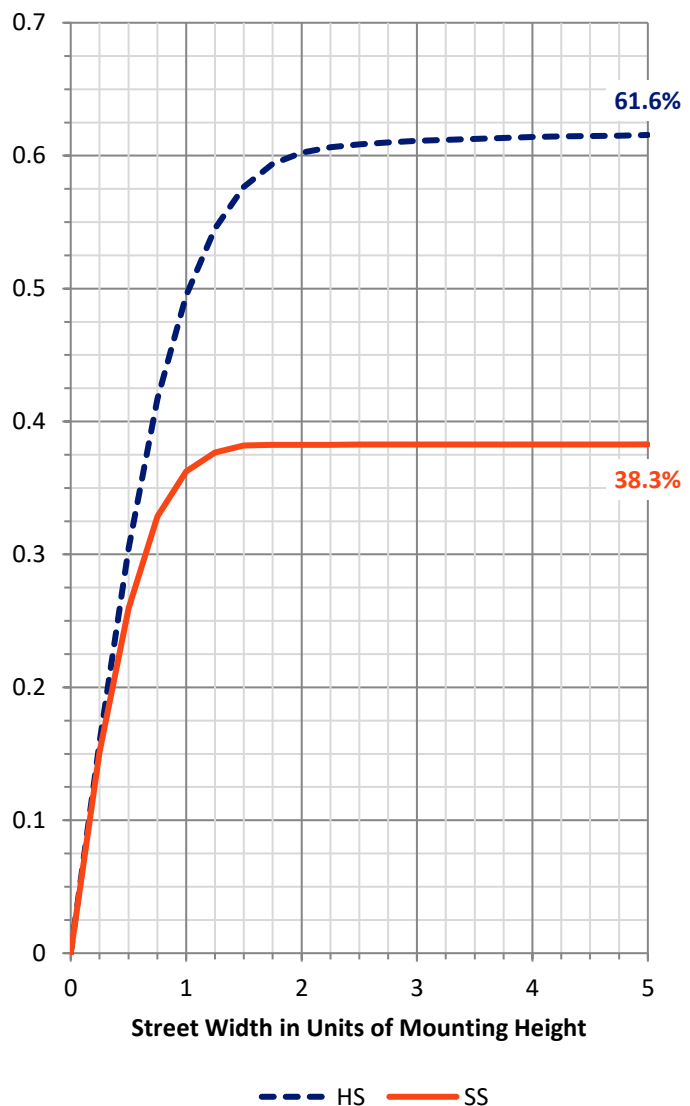
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20191.8	0.0	20191.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	12422.9	0.0	12422.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	32614.7	0.0	32614.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1350.1	4.1
10°-20°	4122.4	12.6
20°-30°	6517.3	20.0
30°-40°	7361.9	22.6
40°-50°	6894.5	21.1
50°-60°	4753.3	14.6
60°-70°	1277.1	3.9
70°-80°	266.1	0.8
80°-90°	72.0	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°	32614.7	100.0
0°-180°	32614.7	100.0



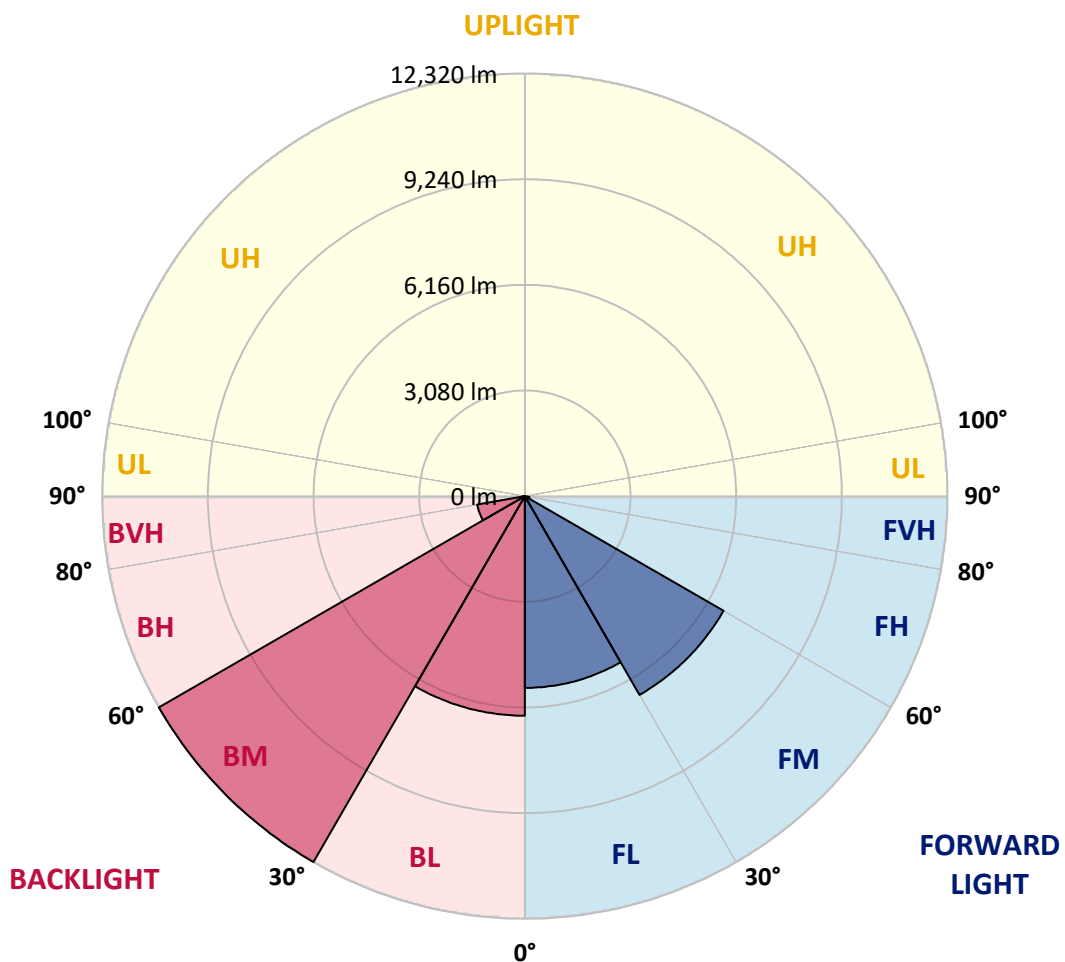
REPORT NUMBER: P638346  
 CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5589.1	17.1			
FM (30°-60°)	6690.0	20.5			
FH (60°-80°)	134.1	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	6400.7	19.6	B5		
BM (30°-60°)	12319.7	37.8	B5		
BH (60°-80°)	1409.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	62.3	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





REPORT NUMBER: P638346  
 CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7
2.5°	14135.0	14043.9	13957.6	13928.9	14048.7	14178.1	14096.6	14101.4	14072.7	14125.4
5°	14240.4	14115.8	14058.3	14015.1	14034.3	14168.5	14053.5	14096.6	14048.7	14111.0
7.5°	14202.1	14115.8	14058.3	13976.8	14039.1	14197.3	14087.0	14091.8	14067.9	14125.4
10°	14178.1	14115.8	14043.9	14053.5	14125.4	14259.6	14173.3	14221.2	14187.7	14221.2
12.5°	14235.6	14168.5	14130.2	14130.2	14192.5	14345.9	14302.7	14345.9	14331.5	14360.2
15°	13694.0	13756.3	14120.6	14283.6	14408.2	14561.6	14542.4	14585.5	14595.1	14638.3
17.5°	11551.5	11489.2	11460.4	12299.2	14528.0	15002.5	14988.1	14983.4	14935.4	14901.9
20°	11834.3	11810.3	11776.7	11839.1	12088.3	15232.6	15328.5	14738.9	14566.4	14552.0
22.5°	12284.8	12246.5	12121.9	12126.6	12203.3	13243.4	14853.9	14317.1	14259.6	14226.0
25°	12505.3	12428.6	12328.0	12299.2	12323.2	12131.4	13267.4	13904.9	13622.1	13492.7
27.5°	12117.1	12121.9	12040.4	12117.1	12026.0	11163.2	10679.1	13099.7	13090.1	13032.5
30°	11824.7	11810.3	11714.4	11810.3	11182.4	10219.0	10012.9	12217.7	12117.1	12040.4
32.5°	10928.4	10937.9	11215.9	11589.8	10559.3	9797.2	9174.1	10914.0	11867.8	11824.7
35°	7817.6	7836.8	8824.2	10669.5	9615.0	8958.4	8910.4	9432.9	11474.8	11494.0
37.5°	7525.2	7525.2	7501.3	7803.2	8872.1	8618.1	8713.9	8661.2	10511.4	10559.3
40°	7314.3	7271.2	7237.6	6763.1	6168.8	8378.4	8445.5	8205.9	9936.2	9945.8
42.5°	7060.3	7012.4	7022.0	6144.8	5521.7	7784.1	7597.1	7276.0	8977.6	8987.1
45°	6595.4	6676.8	6734.4	5377.9	5330.0	5560.0	7007.6	6806.3	8330.5	8507.8
47.5°	3355.2	3427.1	5258.1	4946.5	5056.8	4941.7	5919.5	5924.3	6930.9	7520.4
50°	3043.6	3024.5	3029.3	2885.5	4668.5	3997.5	4280.3	5430.6	5550.5	6394.0
52.5°	2837.5	2832.7	2540.4	2257.6	2933.4	3518.2	3106.0	3930.4	4126.9	5416.2
55°	2099.4	2252.8	2003.5	2123.4	1835.8	2818.4	2804.0	3546.9	3614.0	4342.6
57.5°	19.2	24.0	57.5	1615.3	1270.2	1409.2	1936.4	2420.5	2540.4	3384.0
60°	4.8	9.6	24.0	47.9	824.4	867.6	1294.1	1399.6	1576.9	2017.9
62.5°	0.0	0.0	9.6	24.0	43.1	354.7	412.2	450.6	695.0	1030.5
65°	0.0	0.0	4.8	14.4	24.0	57.5	100.7	210.9	302.0	373.9
67.5°	0.0	0.0	4.8	9.6	19.2	28.8	57.5	81.5	129.4	220.5
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.3	57.5	76.7	110.2
72.5°	0.0	0.0	4.8	9.6	9.6	28.8	28.8	43.1	57.5	71.9
75°	0.0	0.0	4.8	4.8	9.6	19.2	28.8	33.6	38.3	57.5
77.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	38.3	33.6	33.6
80°	0.0	0.0	4.8	14.4	14.4	24.0	28.8	38.3	24.0	24.0
82.5°	0.0	0.0	4.8	19.2	14.4	47.9	47.9	52.7	19.2	19.2
85°	0.0	0.0	14.4	9.6	28.8	47.9	43.1	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



REPORT NUMBER: P638346

CATALOG NUMBER: IFLD-S-SA6E-727-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14072.7	0°	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7	14072.7
13986.4	2.5°	14178.1	14115.8	14245.2	14230.8	14168.5	14139.8	14106.2	14077.5	13866.6
13996.0	5°	14182.9	14087.0	14245.2	14216.5	14206.9	14158.9	14130.2	14173.3	13981.6
14034.3	7.5°	14182.9	14087.0	14259.6	14269.2	14254.8	14216.5	14211.7	14240.4	14082.2
14101.4	10°	14278.8	14240.4	14384.2	14398.6	14379.4	14369.8	14345.9	14326.7	14158.9
14331.5	12.5°	14480.1	14403.4	14566.4	14609.5	14595.1	14619.1	14561.6	14590.3	14417.8
14566.4	15°	14724.5	14729.3	14853.9	14949.8	14940.2	15016.9	14930.6	15007.3	14882.7
14834.8	17.5°	15098.4	15151.1	15328.5	15472.3	15525.0	15582.5	15525.0	15548.9	15371.6
14537.6	20°	14705.4	14901.9	15755.1	16018.7	16128.9	16181.6	16085.8	16114.5	15937.2
14173.3	22.5°	14350.7	14604.7	15362.0	16186.4	16526.7	16632.2	16598.6	16593.9	16526.7
13454.3	25°	13828.2	14341.1	14681.4	15553.7	16622.6	16814.3	16833.5	16828.7	16728.1
13013.4	27.5°	13185.9	13301.0	14182.9	14714.9	15951.6	16680.1	16651.4	16512.4	16378.2
12097.9	30°	12366.3	12888.8	13286.6	14135.0	15084.0	16267.9	16267.9	16162.5	16023.5
11772.0	32.5°	11949.3	12625.1	12994.2	13301.0	14111.0	15807.8	15999.5	15889.3	15779.0
11517.9	35°	11728.8	11829.5	12692.2	12970.2	13655.7	14921.0	15697.5	15587.3	15505.8
10842.1	37.5°	11244.7	11479.6	11882.2	12625.1	12836.0	14197.3	15294.9	15237.4	15141.5
9964.9	40°	10166.3	10794.2	11412.5	12117.1	12337.5	13267.4	14806.0	14830.0	14700.6
9030.3	42.5°	9528.8	9955.4	10923.6	11398.1	11992.4	12668.3	14331.5	14369.8	14278.8
8555.8	45°	8781.0	9255.6	9936.2	10798.9	11609.0	11843.8	13492.7	13895.3	13818.6
7611.5	47.5°	8095.6	8479.1	9313.1	10185.4	11081.7	11048.2	12529.3	13286.6	13181.1
6887.7	50°	7122.6	7793.6	8186.7	8987.1	10324.4	10415.5	11503.5	12572.4	12486.1
5852.4	52.5°	6005.8	6849.4	7601.9	8335.3	9557.5	9773.2	10549.7	11843.8	11786.3
4472.0	55°	5248.5	5862.0	6710.4	7300.0	8627.7	9202.8	9835.5	11148.8	11120.1
3676.3	57.5°	3733.9	4917.8	5617.6	6442.0	7141.8	8181.9	8651.6	9734.9	9466.5
2037.1	60°	2530.8	3086.8	3940.0	4826.7	5296.4	6336.5	6772.7	7640.3	7568.4
1217.5	62.5°	1337.3	1850.2	2458.9	2904.6	3245.0	4256.3	4438.4	5373.1	5349.1
488.9	65°	589.6	781.3	1332.5	1562.6	1912.5	2382.2	2540.4	2875.9	2794.4
239.7	67.5°	306.8	464.9	752.5	925.1	1164.7	1342.1	1471.5	1576.9	1644.0
158.2	70°	186.9	340.3	464.9	642.3	800.5	944.2	1044.9	1188.7	1275.0
81.5	72.5°	139.0	215.7	321.1	493.7	580.0	747.7	848.4	953.8	1030.5
67.1	75°	76.7	143.8	258.8	388.2	464.9	608.7	699.8	771.7	795.7
38.3	77.5°	47.9	110.2	215.7	302.0	364.3	493.7	469.7	536.8	594.3
28.8	80°	33.6	81.5	167.8	249.2	254.0	316.3	373.9	431.4	469.7
19.2	82.5°	24.0	67.1	124.6	191.7	167.8	244.5	292.4	335.5	244.5
14.4	85°	19.2	47.9	62.3	115.0	95.9	172.6	148.6	143.8	95.9
9.6	87.5°	14.4	24.0	43.1	52.7	38.3	38.3	47.9	57.5	47.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
14072.7
13722.8
13818.6
13900.1
14019.9
14264.4
14676.6
15218.2
15812.6
16311.1
16574.7
16272.7
15970.7
15687.9
15390.8
15045.7
14671.8
14269.2
13828.2
13257.8
12500.5
11824.7
11153.6
9437.7
7573.2
5353.9
2760.8
1644.0
1279.8
1044.9
781.3
603.9
474.5
177.3
95.9
47.9
0.0

(END OF REPORT)