

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: P510666

Luminaire Tested: **CST-CA6-230-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA6-230-740-U-T2-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31359 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

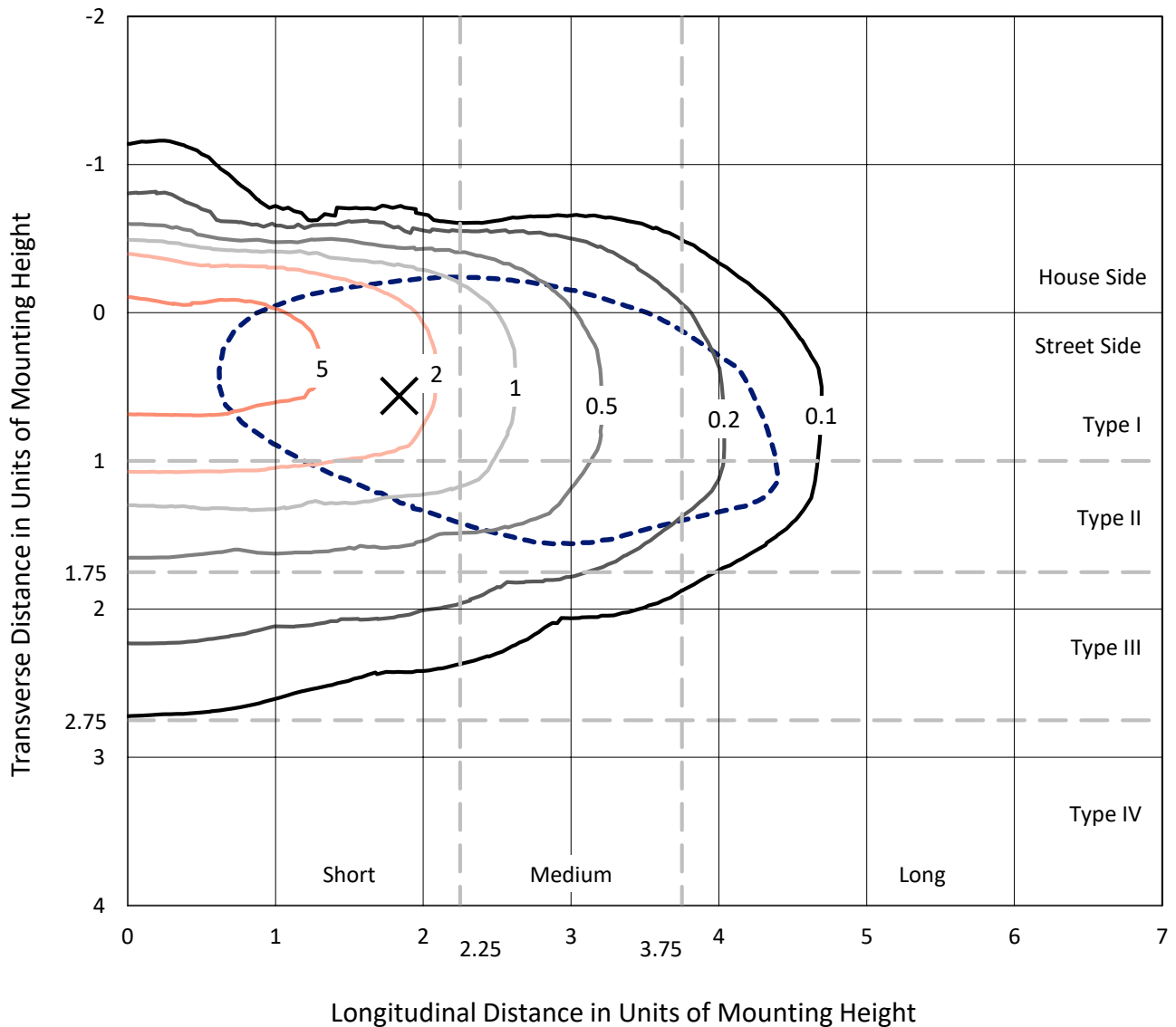
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510666  
 CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

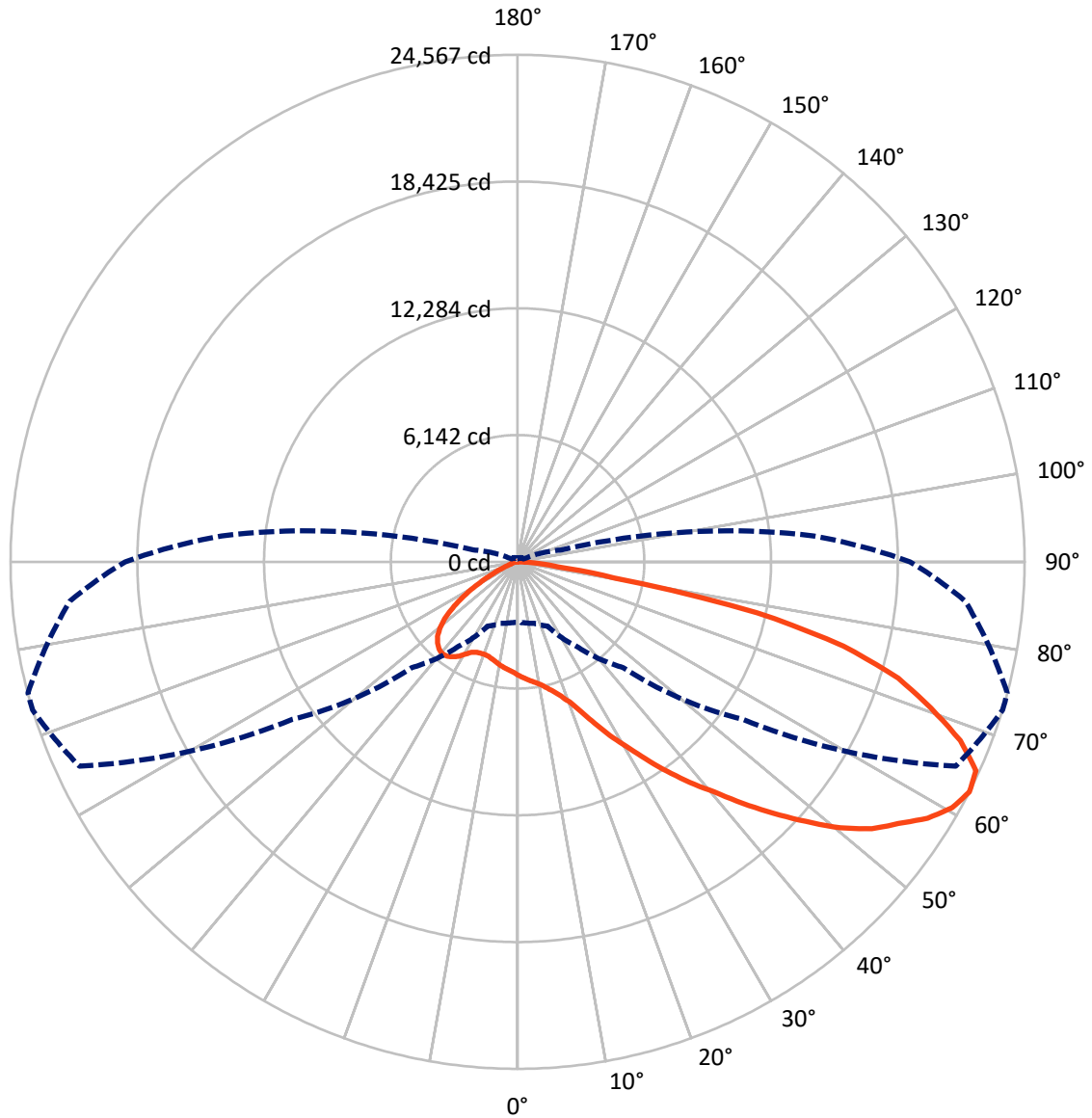
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P510666  
CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510666  
 CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

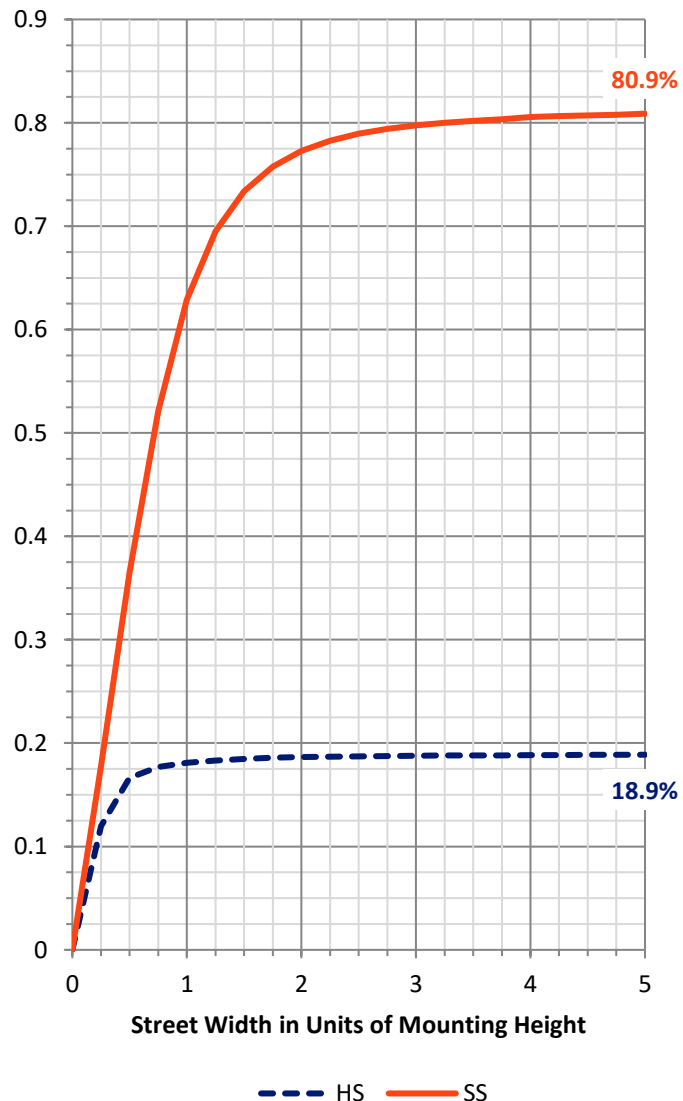
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5998.8	0.0	5998.8
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	25360.2	0.0	25360.2
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	31359.0	0.0	31359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.3	1.7
10°-20°	1579.9	5.0
20°-30°	2729.8	8.7
30°-40°	4105.0	13.1
40°-50°	5473.6	17.5
50°-60°	6446.2	20.6
60°-70°	6408.7	20.4
70°-80°	3679.4	11.7
80°-90°	411.0	1.3
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°	31359.0	100.0
0°-180°	31359.0	100.0

**Coefficient of Utilization**

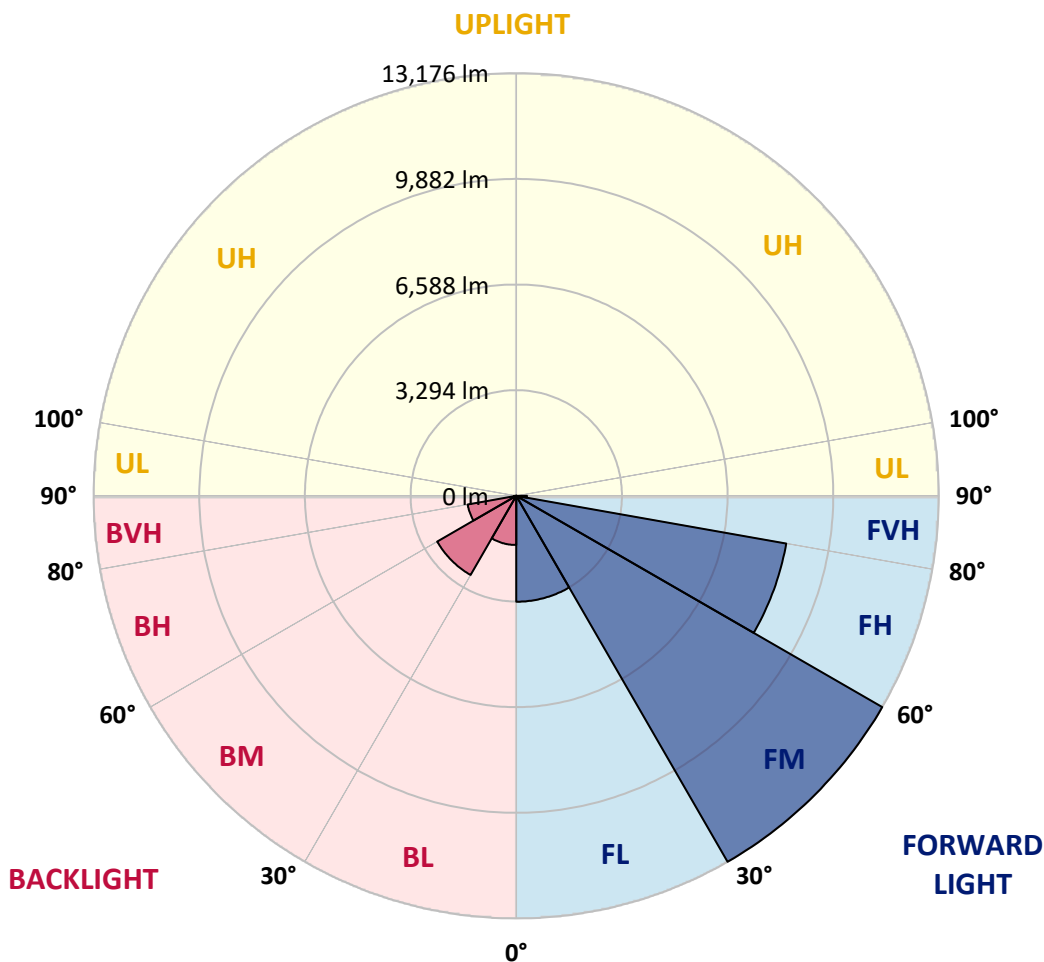


REPORT NUMBER: P510666  
 CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3302.1	10.5			
FM (30°-60°)	13176.3	42.0			
FH (60°-80°)	8548.0	27.3			G4/12000
FVH (80°-90°)	333.8	1.1			G3/500
BL (0°-30°)	1533.0	4.9	B3/2500		
BM (30°-60°)	2848.5	9.1	B3/5000		
BH (60°-80°)	1540.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	77.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





REPORT NUMBER: P510666

CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7
2.5°	5884.0	5898.8	5881.2	5873.4	5865.0	5810.1	5746.0	5680.6	5627.8	5619.3	5550.3
5°	6297.2	6304.9	6276.1	6243.0	6186.0	6095.2	5980.4	5867.1	5761.5	5733.4	5607.4
7.5°	6614.6	6599.9	6592.8	6564.7	6514.7	6414.7	6240.9	6055.0	5891.7	5852.3	5660.9
10°	6912.4	6906.1	6852.6	6817.4	6737.8	6645.6	6502.7	6266.9	6036.7	5973.4	5707.3
12.5°	7234.8	7220.7	7198.9	7122.9	7058.1	6902.5	6730.1	6515.4	6259.2	6174.7	5786.9
15°	7524.8	7486.8	7474.8	7395.3	7329.8	7210.9	7037.7	6788.5	6514.7	6442.2	5938.2
17.5°	7800.7	7783.1	7756.4	7702.2	7629.0	7537.5	7398.8	7132.0	6849.1	6743.5	6195.1
20°	8035.1	8013.3	7990.1	8004.9	7988.7	7930.3	7843.0	7615.6	7270.0	7167.9	6507.7
22.5°	8198.4	8197.7	8290.7	8344.9	8375.8	8373.7	8352.6	8223.8	7876.1	7772.6	6975.1
25°	8334.3	8344.9	8462.4	8668.7	8853.1	8870.0	9019.2	8958.0	8662.3	8554.6	7678.3
27.5°	8374.4	8395.5	8608.8	8933.3	9213.5	9482.4	9701.3	9813.2	9539.4	9410.6	8434.3
30°	8403.3	8411.7	8620.8	9009.4	9599.9	10025.8	10417.2	10606.5	10370.7	10276.4	9276.8
32.5°	8199.9	8202.7	8523.0	9111.4	9883.6	10622.0	11085.2	11442.1	11380.1	11255.5	10198.3
35°	7919.7	7971.8	8339.2	9012.9	10117.3	11169.7	11800.4	12332.5	12456.4	12367.0	11119.0
37.5°	7573.4	7614.2	8007.7	8866.5	10168.7	11546.2	12356.4	13237.7	13561.5	13546.8	12230.4
40°	7147.5	7197.5	7668.4	8551.1	10143.4	11820.1	13009.0	14240.1	14651.2	14604.7	13332.8
42.5°	6644.2	6717.4	7174.3	8145.7	9958.2	11987.6	13543.2	15260.8	16000.6	15970.3	14308.4
45°	6146.5	6186.0	6602.7	7581.1	9617.5	12041.8	14045.8	16667.2	17384.5	17350.7	15483.9
47.5°	5633.4	5667.9	6102.9	6986.3	9026.2	11932.7	14443.5	17875.1	18794.4	18760.6	16651.7
50°	4439.6	4569.8	5461.6	6463.3	8352.6	11623.7	14818.7	19380.1	20269.8	20126.2	17674.5
52.5°	3798.3	3845.5	4307.9	5936.1	7680.4	11096.4	15069.3	20774.5	21483.4	21276.4	18720.5
55°	3550.5	3582.2	3808.9	4964.0	7049.0	10298.9	15364.3	22172.5	22393.5	22340.7	19573.6
57.5°	3362.6	3397.8	3559.7	4146.0	6383.8	9181.1	15272.0	23155.8	23432.5	23263.5	20479.6
60°	3096.5	3139.4	3354.1	3722.3	5627.8	8046.4	14460.4	23558.5	24187.8	23997.7	21168.7
62.5°	2929.0	2957.1	3080.3	3437.2	5001.3	7248.2	13305.3	23429.0	24567.2	24560.1	21766.3
65°	2701.6	2743.1	2874.8	3164.1	4443.8	6629.4	12215.7	22789.1	24403.9	24410.2	21889.5
67.5°	2463.7	2480.6	2618.5	2850.8	3787.0	6062.8	10805.7	21694.5	23131.9	23276.9	21037.1
70°	2166.6	2158.2	2307.4	2477.1	3095.1	5147.7	8697.5	19747.5	21252.5	21312.3	19313.2
72.5°	1704.9	1712.6	1754.1	1871.7	2349.7	4051.0	6311.3	16684.1	19287.9	19394.1	17110.0
75°	1146.0	1158.6	1352.2	1466.9	1690.1	2911.4	3968.6	11261.9	16305.4	16605.3	14003.6
77.5°	874.3	882.0	938.3	1063.6	1222.7	2075.1	2151.2	6136.7	11870.8	12582.4	10955.0
80°	619.4	622.3	566.6	504.0	651.1	1407.8	1270.6	2613.6	4730.3	5589.8	6434.4
82.5°	277.3	273.1	321.7	267.5	375.2	544.8	599.7	1268.4	1964.6	2111.7	2299.0
85°	128.8	144.3	165.4	138.7	223.1	210.5	233.7	540.6	920.7	1016.4	1010.8
87.5°	31.7	34.5	43.6	55.6	80.9	71.8	70.4	159.1	205.5	204.8	314.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510666  
 CATALOG NUMBER: CST-CA6-230-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7	5499.7
2.5°	5503.2	5466.6	5380.0	5296.2	5216.7	5163.9	5104.8	5042.8	5005.5	4987.9	5025.9
5°	5530.6	5460.9	5295.5	5129.4	4988.6	4868.2	4783.8	4712.0	4673.3	4676.8	4678.9
7.5°	5553.9	5456.0	5224.4	4990.0	4770.4	4621.2	4510.7	4433.2	4388.9	4355.1	4380.4
10°	5574.3	5435.6	5141.4	4828.8	4590.2	4369.2	4219.2	4125.6	4044.0	3998.2	4034.1
12.5°	5596.1	5427.9	5048.4	4684.5	4375.5	4128.4	3922.9	3830.0	3749.7	3715.2	3737.1
15°	5691.1	5457.4	4961.9	4514.9	4163.6	3844.1	3622.3	3508.3	3444.9	3403.4	3412.6
17.5°	5854.4	5535.6	4906.3	4337.5	3927.1	3589.2	3302.0	3169.0	3064.1	3034.6	3026.8
20°	6086.7	5684.1	4906.3	4187.6	3658.9	3306.3	2975.4	2750.9	2587.6	2526.3	2573.5
22.5°	6476.7	5936.8	4954.8	4051.7	3428.0	3012.7	2618.5	2275.7	2055.4	1966.0	2018.1
25°	7022.2	6327.5	5033.7	3932.7	3217.6	2674.9	2165.9	1771.7	1528.9	1422.6	1421.2
27.5°	7734.6	6925.1	5192.7	3835.6	2965.6	2237.7	1693.6	1314.2	1086.1	1022.1	1031.2
30°	8524.4	7572.7	5493.3	3694.8	2659.4	1748.5	1233.3	965.8	805.3	720.8	722.2
32.5°	9286.0	8243.5	5850.2	3603.3	2261.7	1318.4	879.2	689.1	589.2	539.2	546.9
35°	10102.5	8822.1	6115.6	3449.9	1795.0	953.1	621.6	516.7	475.1	449.1	450.5
37.5°	10984.5	9458.4	6333.8	3244.3	1357.1	654.6	458.9	442.8	425.2	392.1	389.3
40°	11905.9	10195.4	6464.0	2912.1	943.2	453.3	390.0	408.3	398.4	355.5	352.0
42.5°	12687.3	10764.2	6496.4	2472.1	610.3	367.4	353.4	381.5	383.6	340.0	334.4
45°	13437.7	11271.0	6433.0	1892.8	423.1	345.6	330.8	369.6	372.4	332.9	323.8
47.5°	14277.4	11964.4	6318.3	1262.8	349.8	326.6	323.1	349.8	359.7	327.3	316.1
50°	15297.4	12528.2	5978.3	775.7	330.1	314.6	314.6	330.8	344.2	316.1	310.4
52.5°	16343.4	13019.5	5475.0	532.2	318.2	302.0	311.1	318.2	323.1	297.8	302.7
55°	17093.1	13455.3	4724.6	428.0	311.1	293.5	315.4	301.3	294.2	272.4	267.5
57.5°	17925.1	13973.3	3957.4	379.4	302.0	298.5	301.3	274.5	254.8	232.3	227.4
60°	18505.8	14252.1	3018.4	356.9	291.4	293.5	278.0	242.1	206.2	190.1	186.5
62.5°	19012.6	14411.2	2212.4	328.0	281.6	280.9	252.0	206.9	169.6	152.0	149.2
65°	18935.9	14162.7	1433.9	304.8	273.8	264.7	226.0	177.4	141.5	128.1	126.7
67.5°	18091.9	13063.2	903.1	280.9	260.4	244.3	202.7	158.4	130.2	114.7	113.3
70°	16320.2	11544.8	552.6	249.9	231.6	216.1	179.5	148.5	123.2	104.9	101.4
72.5°	13871.3	9887.8	390.7	220.3	202.0	183.7	152.0	141.5	117.6	94.3	91.5
75°	11396.3	7283.4	327.3	192.2	172.5	147.8	129.5	131.6	110.5	85.9	83.8
77.5°	8025.3	4540.9	304.8	157.0	135.9	117.6	111.9	120.4	101.4	78.8	76.7
80°	4683.8	2550.3	252.0	123.9	102.1	90.8	93.6	102.1	88.7	71.1	68.3
82.5°	1890.7	1009.4	177.4	96.4	74.6	72.5	76.7	83.1	73.2	59.8	58.4
85°	675.1	315.4	100.7	63.4	47.9	50.0	49.3	59.1	52.8	43.6	42.9
87.5°	177.4	62.6	45.1	25.3	20.4	20.4	19.0	27.5	25.3	19.7	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)