

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: P510517

Luminaire Tested: **CST-CA10-630-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-722-U-T2  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 74646 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

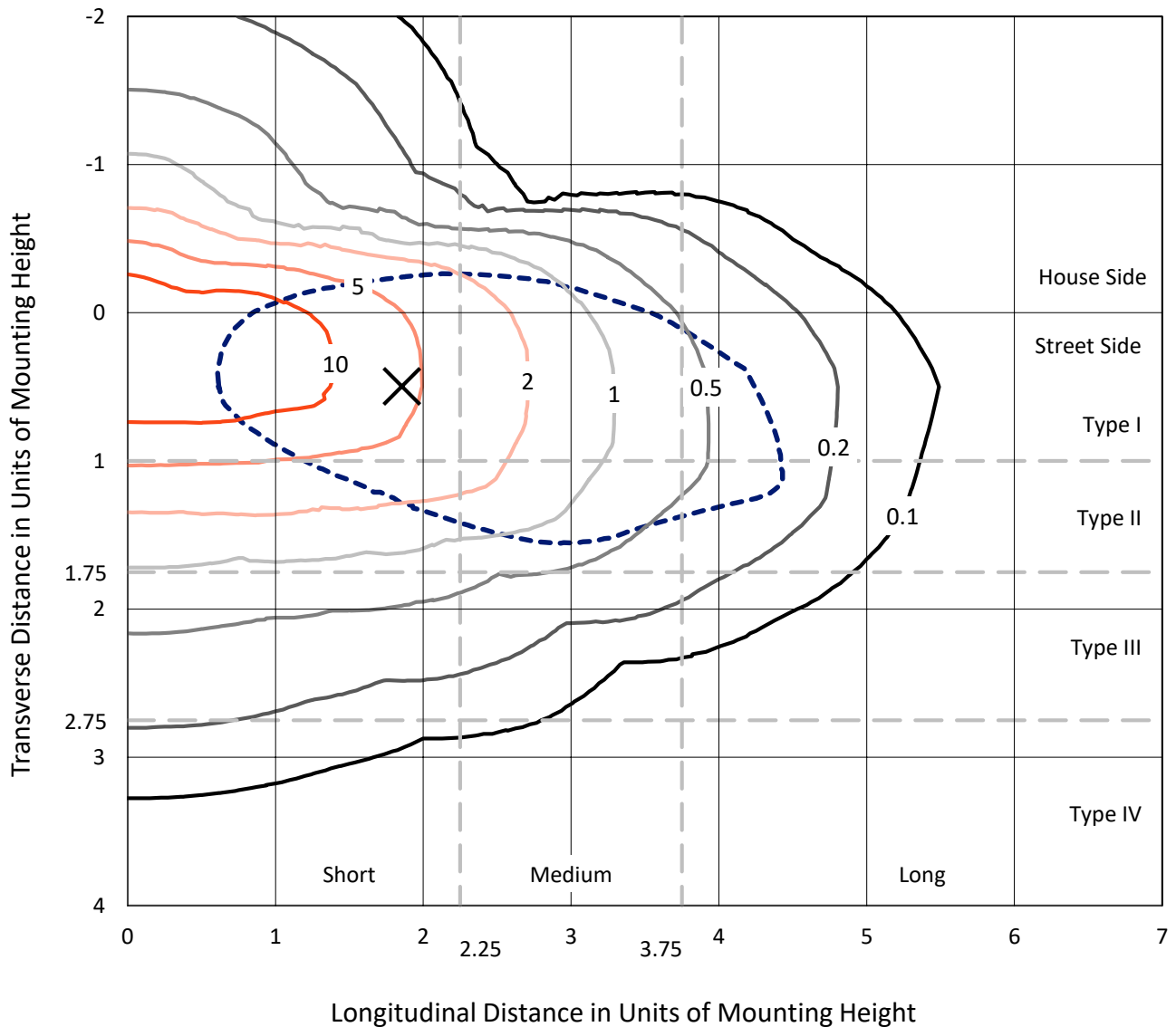
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

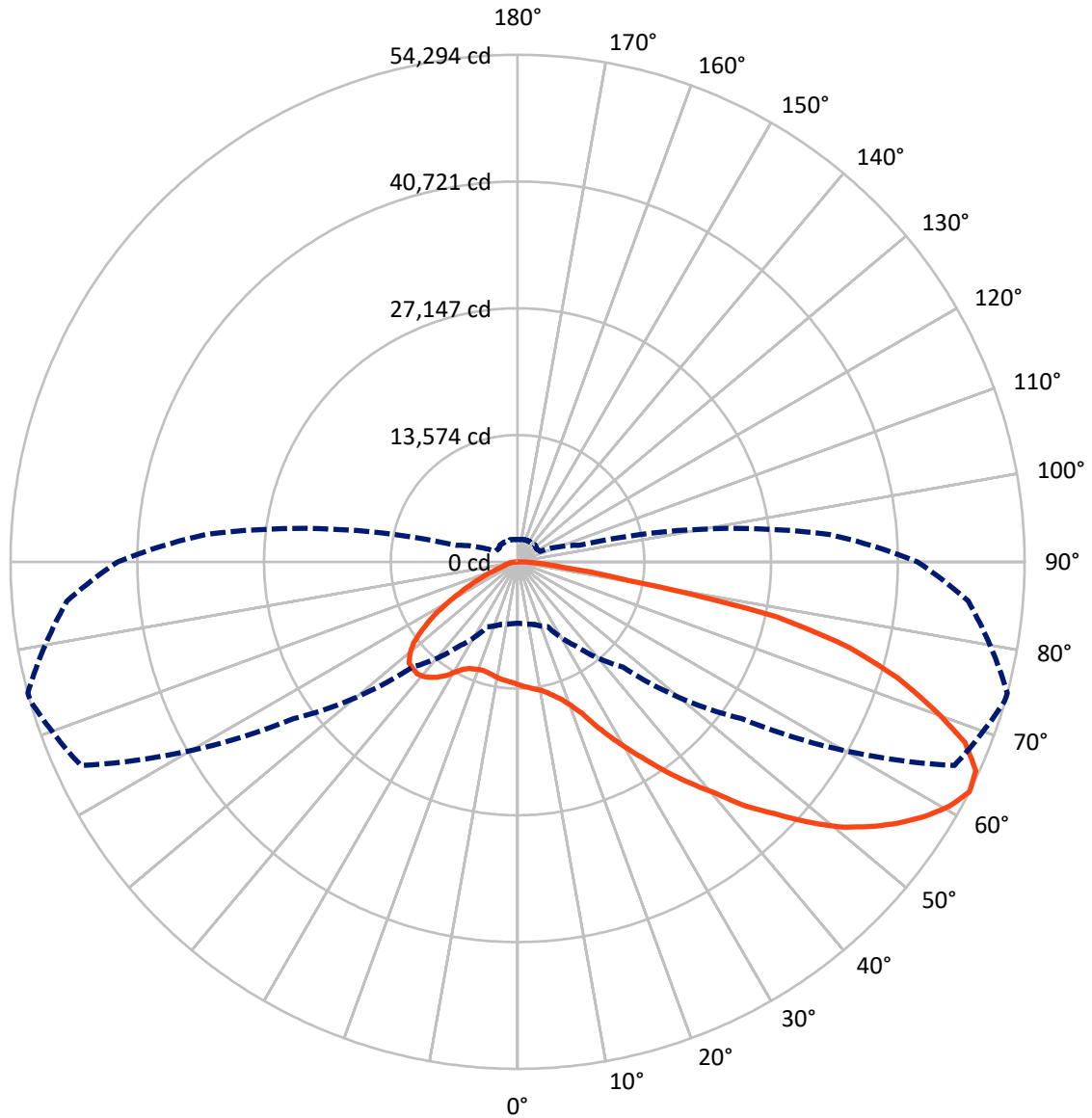
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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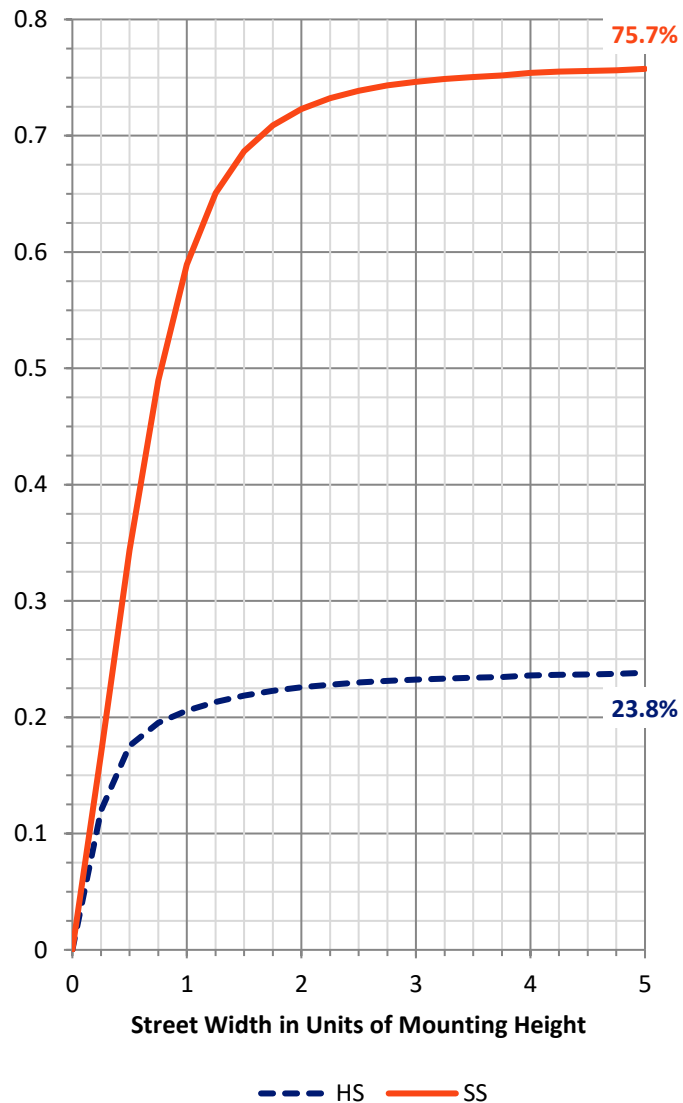
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18085.4	0.0	18085.4
	% Fixture	24.2	0.0	24.2
<b>Street Side</b>	Lumens	56560.6	0.0	56560.6
	% Fixture	75.8	0.0	75.8
<b>Total</b>	Lumens	74646.0	0.0	74646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1265.9	1.7
10°-20°	3841.8	5.1
20°-30°	6626.2	8.9
30°-40°	9770.5	13.1
40°-50°	12879.7	17.3
50°-60°	15158.2	20.3
60°-70°	15080.9	20.2
70°-80°	8794.8	11.8
80°-90°	1228.0	1.6
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°	74646.0	100.0
0°-180°	74646.0	100.0

**Coefficient of Utilization**

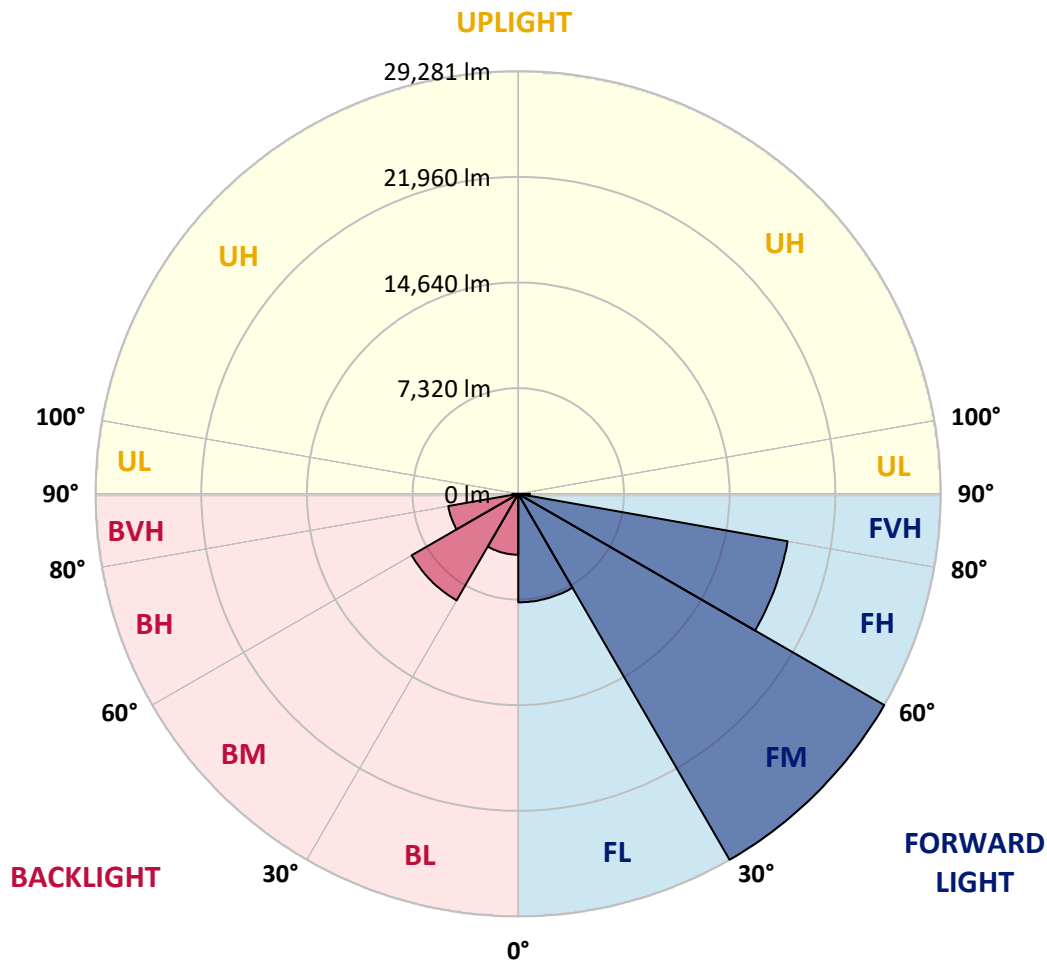


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7516.5	10.1			
FM (30°-60°)	29280.6	39.2			
FH (60°-80°)	18948.6	25.4			G5
FVH (80°-90°)	814.9	1.1			G5
BL (0°-30°)	4217.4	5.6	B4/5000		
BM (30°-60°)	8527.8	11.4	B5		
BH (60°-80°)	4927.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	413.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4
2.5°	13878.9	13822.1	13829.7	13789.8	13729.9	13685.3	13568.6	13442.6	13367.3	13361.2	13253.6
5°	14576.4	14594.8	14599.4	14471.9	14345.9	14203.1	14024.9	13782.1	13583.9	13553.2	13344.3
7.5°	15212.4	15210.9	15201.7	15131.0	15072.6	14860.6	14504.2	14123.2	13800.6	13771.4	13431.8
10°	15863.8	15859.2	15767.0	15648.7	15516.6	15321.5	15015.8	14559.5	14037.1	13998.7	13513.3
12.5°	16573.6	16522.9	16464.5	16321.6	16164.9	15826.9	15505.8	15009.6	14464.2	14395.1	13657.7
15°	17158.9	17106.7	17025.2	16928.5	16764.1	16506.0	16164.9	15576.5	14991.2	14923.6	13981.8
17.5°	17738.1	17713.5	17655.1	17552.2	17426.2	17203.5	16890.1	16390.8	15624.1	15541.2	14521.1
20°	18212.8	18154.4	18111.4	18159.0	18169.8	18005.4	17833.3	17413.9	16569.0	16441.5	15183.2
22.5°	18483.2	18470.9	18706.0	18881.1	18951.8	18988.6	18934.9	18596.9	17831.8	17609.0	16105.0
25°	18739.8	18719.8	19039.3	19477.2	19893.5	20105.5	20248.4	20292.9	19590.9	19389.6	17587.5
27.5°	18747.4	18802.7	19266.7	20001.1	20635.5	21282.3	21967.5	22045.9	21429.8	21270.0	19274.4
30°	18788.9	18813.5	19272.8	20116.3	21437.5	22474.5	23367.1	23808.0	23276.4	23202.7	21131.8
32.5°	18262.0	18294.2	19008.6	20317.5	22042.8	23708.1	24892.6	25547.1	25415.0	25321.2	23113.6
35°	17713.5	17741.2	18570.8	20031.8	22492.9	24828.1	26270.7	27556.6	27797.8	27727.1	25324.3
37.5°	16853.2	16945.4	17814.9	19690.7	22571.3	25651.6	27585.8	29558.4	30286.6	30074.6	27662.6
40°	15919.1	15986.7	16999.1	18976.3	22483.7	26192.3	28877.8	31773.7	32655.5	32541.8	29983.9
42.5°	14739.2	14920.5	15934.5	18063.8	22033.6	26528.8	30073.0	34285.5	35566.8	35718.9	32116.3
45°	13745.3	13740.6	14682.4	16742.6	21217.8	26608.7	31173.0	36825.0	38699.3	38413.6	34935.4
47.5°	12576.1	12623.8	13607.0	15427.5	20014.9	26355.2	32030.3	39827.0	41724.3	41569.1	37247.5
50°	9870.7	10213.3	12075.3	14296.8	18387.9	25648.5	32744.6	42750.5	44561.8	44632.5	39349.2
52.5°	8509.5	8641.7	9669.5	13158.4	16943.8	24462.5	33528.1	46039.8	47304.1	47124.4	41735.0
55°	7964.2	8034.8	8528.0	11113.6	15547.3	22626.6	33904.5	49043.2	49442.7	49413.5	43698.4
57.5°	7569.3	7623.1	7973.4	9274.6	14014.1	20269.9	33586.5	50997.4	51618.0	51427.5	45551.2
60°	6999.4	7042.4	7564.7	8357.5	12436.3	17890.2	31630.8	51883.8	53195.8	53125.2	47188.9
62.5°	6570.7	6644.5	6936.4	7679.9	11089.0	15929.9	29300.3	51607.3	54231.3	54294.3	48439.4
65°	6117.5	6183.6	6430.9	7080.8	9867.6	14640.9	26786.9	50221.6	53755.0	53922.5	48642.2
67.5°	5558.3	5609.0	5902.5	6464.7	8440.4	13352.0	23952.4	47771.2	51112.6	51651.8	46623.5
70°	4854.7	4873.1	5232.6	5615.2	7008.6	11408.5	19045.5	43759.9	47288.8	47299.5	42812.0
72.5°	3863.8	3879.2	3974.4	4264.8	5264.9	9028.8	13998.7	36563.9	42639.9	42561.6	38049.5
75°	2627.1	2762.3	3092.6	3369.1	3797.7	6340.3	8706.2	24634.5	36126.0	36740.5	31254.4
77.5°	2075.5	2087.8	2224.6	2478.0	2848.3	4736.4	4879.3	13630.0	26932.8	28393.8	24566.9
80°	1447.2	1468.7	1395.0	1456.4	1986.4	3241.6	2851.4	5931.6	11231.9	11992.3	14750.0
82.5°	689.8	714.4	820.4	762.0	987.8	1378.1	1505.6	3064.9	4851.6	4979.1	5742.7
85°	454.7	454.7	456.3	431.7	576.1	600.7	683.7	1307.4	2369.0	2448.9	2435.0
87.5°	145.9	161.3	156.7	182.8	221.2	199.7	208.9	410.2	812.7	805.0	672.9
90°	0.0	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°	180°
0°	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4	13158.4
2.5°	13176.8	13113.8	12966.3	12837.3	12709.8	12613.0	12530.0	12419.4	12367.2	12319.6	12419.4
5°	13215.2	13103.1	12838.8	12574.6	12331.9	12153.6	12044.6	11964.7	11892.5	11892.5	11926.3
7.5°	13259.8	13107.7	12729.8	12354.9	11990.8	11788.0	11632.8	11531.4	11473.1	11476.1	11548.3
10°	13289.0	13055.5	12605.3	12099.9	11703.5	11377.8	11225.7	11079.8	10969.2	10903.1	10976.8
12.5°	13322.8	13038.6	12437.9	11867.9	11385.5	11016.8	10700.3	10591.2	10483.7	10400.7	10440.7
15°	13531.7	13103.1	12298.1	11572.9	11013.7	10554.4	10139.6	9939.8	9909.1	9852.3	9866.1
17.5°	13872.8	13276.7	12207.4	11211.9	10566.7	10024.3	9498.9	9240.8	9179.4	9150.2	9165.5
20°	14381.3	13607.0	12235.1	10958.4	10062.7	9455.9	8776.9	8474.2	8269.9	8282.2	8342.1
22.5°	15158.6	14140.1	12385.6	10680.3	9517.4	8721.6	8036.4	7624.6	7418.8	7374.2	7441.8
25°	16396.9	14998.9	12551.5	10414.6	8990.4	7928.8	7169.9	6724.4	6460.1	6443.2	6518.5
27.5°	17983.9	16315.5	12912.6	10184.1	8335.9	6976.3	6222.0	5841.0	5559.9	5526.1	5501.5
30°	19607.8	17778.0	13565.5	9833.8	7572.4	5993.1	5337.1	5039.1	4724.1	4596.6	4624.3
32.5°	21328.4	19140.7	14330.6	9588.0	6718.2	5128.2	4558.2	4274.0	3985.2	3800.8	3757.8
35°	23061.4	20495.7	14974.3	9220.9	5908.6	4441.4	3896.0	3602.6	3350.7	3200.1	3189.4
37.5°	25089.3	21906.1	15490.5	8830.6	5068.2	3903.7	3247.7	3078.7	2957.4	2825.3	2839.1
40°	27120.3	23549.9	15903.7	8185.4	4370.8	3326.1	2763.8	2797.6	2823.7	2713.1	2703.9
42.5°	28807.1	24931.0	16092.7	7349.6	3753.2	2823.7	2550.3	2703.9	2817.6	2745.4	2736.1
45°	30520.1	26094.0	16019.0	6312.6	3240.1	2584.1	2533.4	2690.1	2836.0	2819.1	2811.4
47.5°	32382.1	27618.0	15891.5	5131.2	2872.9	2561.0	2570.2	2644.0	2828.3	2859.0	2846.8
50°	34658.9	29020.7	15137.1	3995.9	2694.7	2597.9	2653.2	2614.8	2771.5	2834.5	2845.2
52.5°	36924.9	30100.7	14127.8	3462.8	2624.0	2633.2	2768.4	2637.8	2707.0	2762.3	2813.0
55°	38673.2	31200.7	12494.7	3141.7	2601.0	2650.1	2800.7	2687.0	2685.4	2685.4	2702.3
57.5°	40463.0	32674.0	10861.6	2934.3	2561.0	2668.5	2762.3	2696.2	2674.7	2644.0	2624.0
60°	41708.9	33219.4	8763.0	2797.6	2519.5	2642.4	2654.7	2645.5	2579.4	2550.3	2527.2
62.5°	42815.1	33515.9	6822.7	2640.9	2462.7	2581.0	2516.5	2496.5	2458.1	2387.4	2399.7
65°	42518.6	32879.8	5198.8	2464.2	2422.7	2507.2	2395.1	2347.5	2350.5	2276.8	2301.4
67.5°	40610.5	30026.9	3733.2	2193.8	2313.7	2361.3	2256.8	2221.5	2169.3	2132.4	2166.2
70°	36755.9	26617.9	2518.0	1820.5	2064.8	2167.7	2098.6	2037.1	1955.7	1931.1	1968.0
72.5°	30936.4	22219.5	1737.6	1464.1	1782.1	1915.8	1889.6	1826.7	1768.3	1828.2	1900.4
75°	25415.0	16438.4	1418.0	1199.8	1370.4	1596.2	1673.0	1691.5	1866.6	2450.4	2510.3
77.5°	18294.2	10190.3	1275.1	975.5	1093.8	1276.7	1430.3	1493.3	2279.9	2183.1	2178.5
80°	10666.5	5939.3	972.5	769.7	884.9	935.6	1118.4	1752.9	1966.5	1686.9	1645.4
82.5°	4867.0	2620.9	677.5	616.1	614.5	619.1	762.0	1686.9	1508.6	1328.9	1279.7
85°	1789.8	921.8	411.7	356.4	408.7	354.9	499.3	1236.7	874.2	860.3	717.5
87.5°	440.9	189.0	139.8	116.8	95.3	90.6	152.1	407.1	213.5	195.1	187.4
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)