

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: P510756

Luminaire Tested: **CST-CA8-330-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510756
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-CA8-330-722-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36308 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

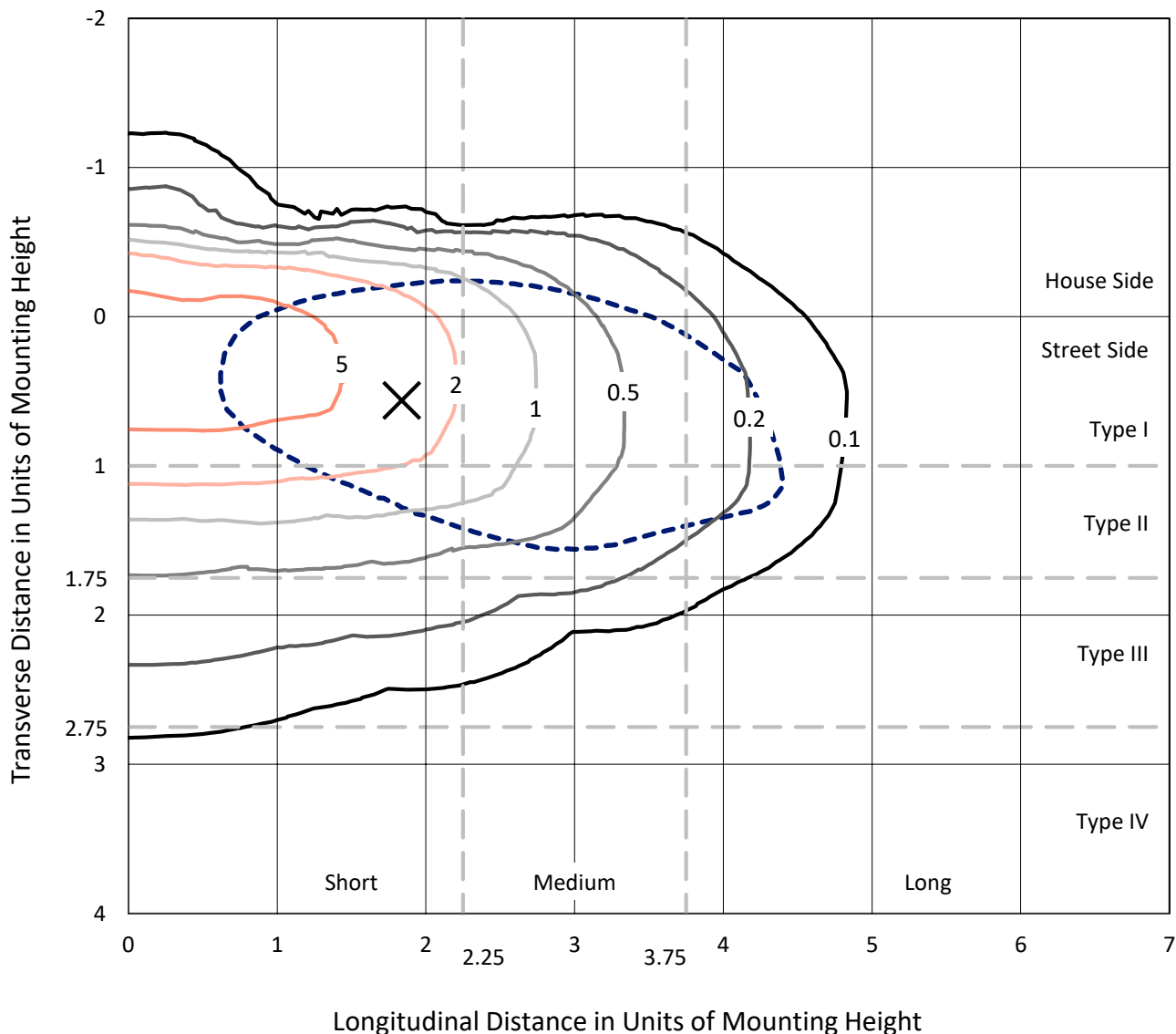
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

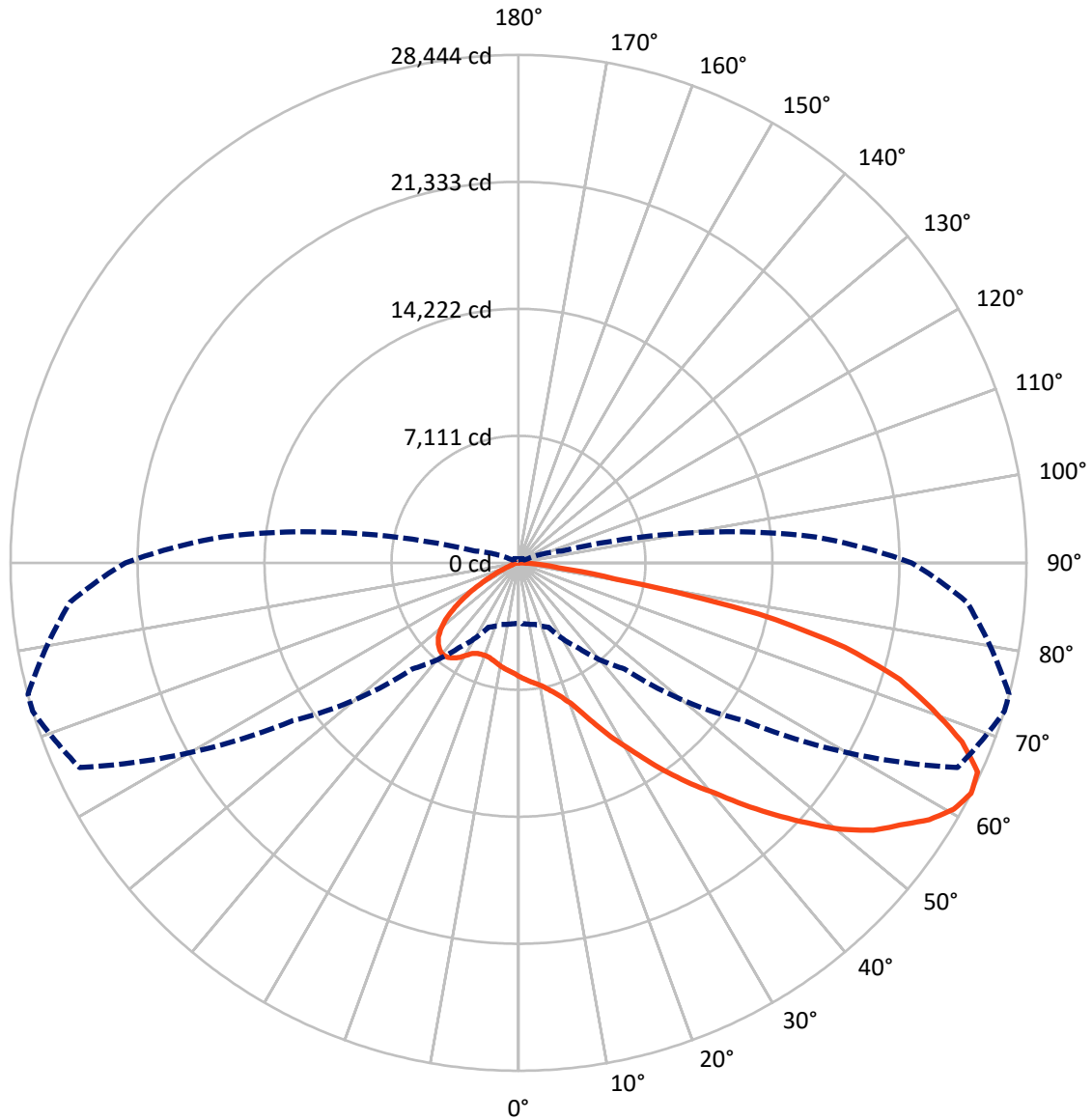
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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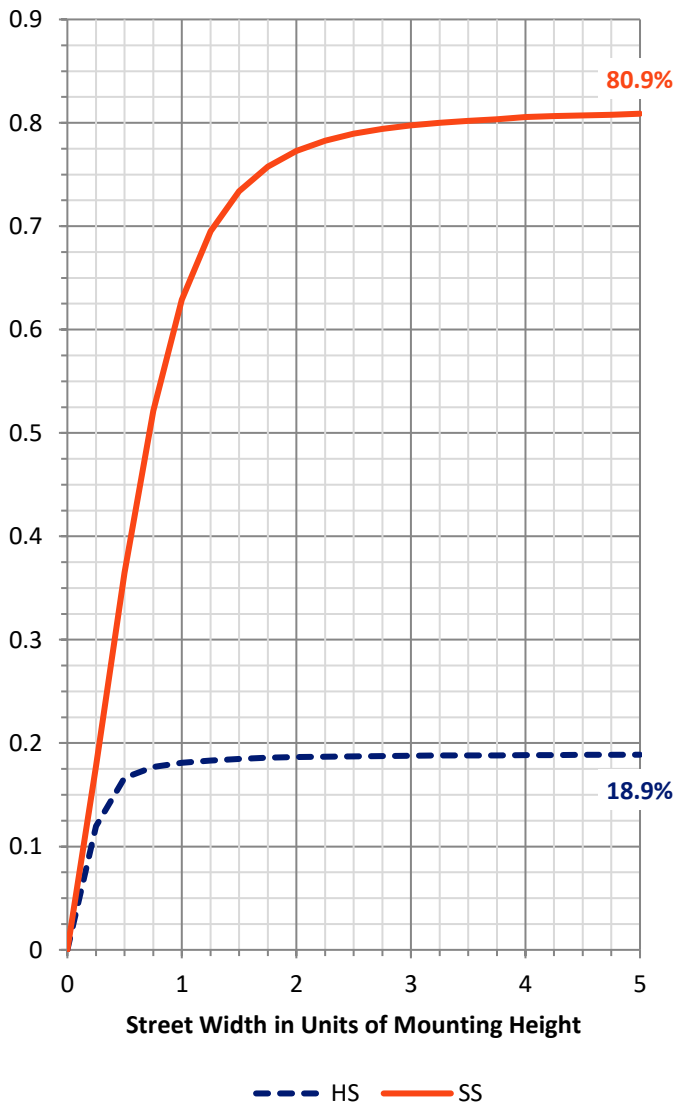
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6945.6	0.0	6945.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	29362.5	0.0	29362.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	36308.0	0.0	36308.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.2	1.7
10°-20°	1829.3	5.0
20°-30°	3160.6	8.7
30°-40°	4752.8	13.1
40°-50°	6337.4	17.5
50°-60°	7463.6	20.6
60°-70°	7420.1	20.4
70°-80°	4260.1	11.7
80°-90°	475.9	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°	36308.0	100.0
0°-180°	36308.0	100.0

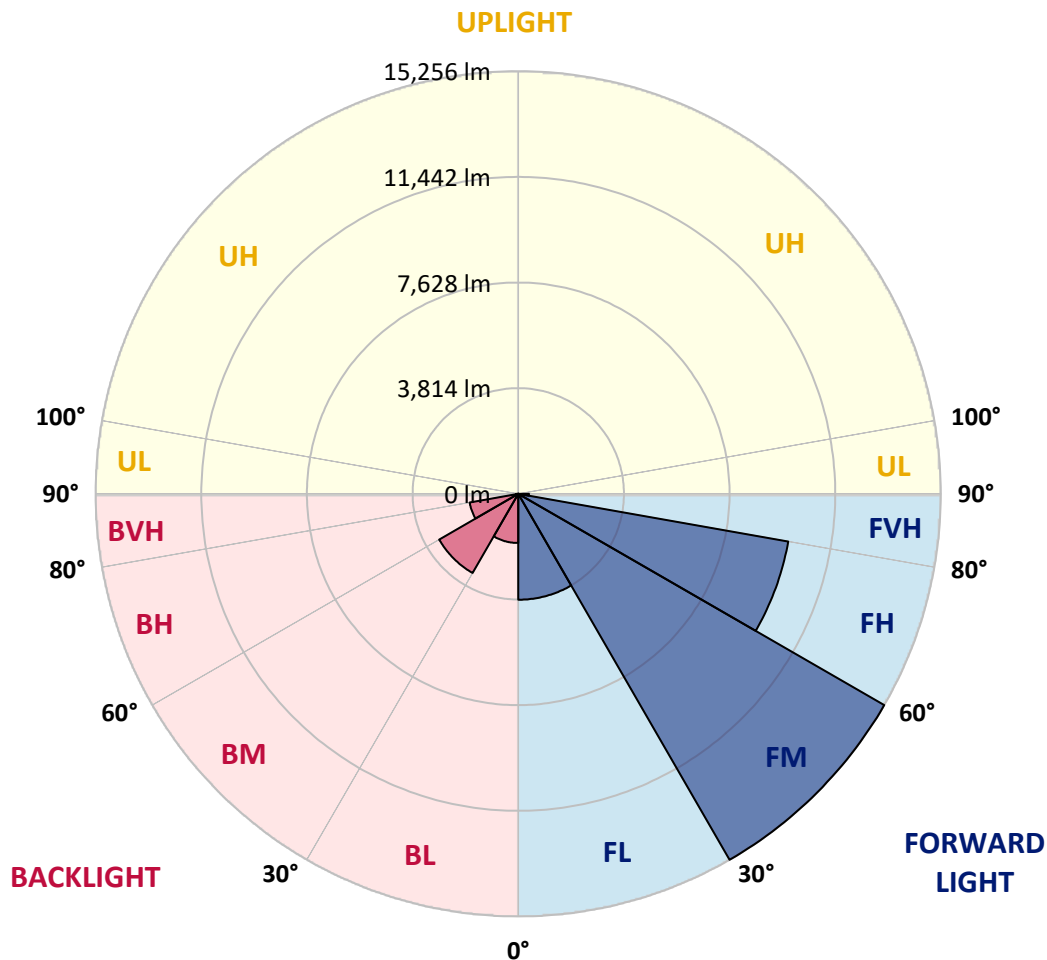


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3823.2	10.5			
FM (30°-60°)	15255.7	42.0			
FH (60°-80°)	9897.0	27.3			G4/12000
FVH (80°-90°)	386.5	1.1			G3/500
BL (0°-30°)	1774.9	4.9	B3/2500		
BM (30°-60°)	3298.1	9.1	B3/5000		
BH (60°-80°)	1783.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	89.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6
2.5°	6812.6	6829.7	6809.3	6800.4	6790.6	6727.0	6652.8	6577.1	6515.9	6506.1	6426.3
5°	7291.0	7300.0	7266.5	7228.2	7162.2	7057.1	6924.2	6793.0	6670.8	6638.2	6492.3
7.5°	7658.6	7641.4	7633.3	7600.7	7542.8	7427.1	7225.8	7010.6	6821.6	6775.9	6554.2
10°	8003.3	7996.0	7934.0	7893.3	7801.2	7694.4	7529.0	7255.9	6989.4	6916.1	6608.0
12.5°	8376.6	8360.3	8335.0	8247.0	8172.0	7991.9	7792.2	7543.6	7247.0	7149.2	6700.1
15°	8712.4	8668.3	8654.5	8562.4	8486.6	8348.9	8148.4	7859.9	7542.8	7458.9	6875.3
17.5°	9031.8	9011.5	8980.5	8917.7	8833.0	8727.0	8566.5	8257.6	7930.0	7807.7	7172.8
20°	9303.2	9278.0	9251.1	9268.2	9249.4	9181.8	9080.7	8817.5	8417.3	8299.1	7534.7
22.5°	9492.3	9491.5	9599.1	9661.8	9697.7	9695.2	9670.8	9521.6	9119.0	8999.2	8075.8
25°	9649.6	9661.8	9797.9	10036.7	10250.3	10269.8	10442.6	10371.7	10029.4	9904.7	8890.0
27.5°	9696.1	9720.5	9967.5	10343.2	10667.5	10978.9	11232.3	11361.9	11044.9	10895.7	9765.3
30°	9729.5	9739.3	9981.3	10431.2	11115.0	11608.0	12061.2	12280.4	12007.4	11898.2	10740.9
32.5°	9493.9	9497.2	9868.0	10549.4	11443.4	12298.4	12834.6	13247.8	13176.1	13031.9	11807.7
35°	9169.6	9229.9	9655.3	10435.3	11714.0	12932.4	13662.7	14278.8	14422.2	14318.7	12873.7
37.5°	8768.6	8815.9	9271.4	10265.7	11773.5	13368.4	14306.5	15326.9	15701.8	15684.7	14160.6
40°	8275.5	8333.4	8878.6	9900.6	11744.2	13685.5	15062.0	16487.5	16963.4	16909.6	15436.9
42.5°	7692.8	7777.5	8306.5	9431.2	11529.8	13879.5	15680.6	17669.2	18525.8	18490.7	16566.5
45°	7116.6	7162.2	7644.7	8777.6	11135.3	13942.2	16262.5	19297.6	20128.1	20088.9	17927.6
47.5°	6522.4	6562.4	7066.1	8088.9	10450.7	13815.9	16723.0	20696.1	21760.5	21721.4	19279.6
50°	5140.2	5291.0	6323.6	7483.3	9670.8	13458.1	17157.4	22438.6	23468.7	23302.5	20463.8
52.5°	4397.7	4452.3	4987.8	6872.9	8892.5	12847.7	17447.5	24053.1	24873.8	24634.2	21674.9
55°	4110.9	4147.5	4410.0	5747.4	8161.4	11924.3	17789.0	25671.7	25927.6	25866.5	22662.7
57.5°	3893.3	3934.0	4121.5	4800.4	7391.2	10630.0	17682.2	26810.2	27130.5	26934.9	23711.6
60°	3585.2	3634.9	3883.5	4309.7	6515.9	9316.3	16742.5	27276.4	28005.0	27785.0	24509.5
62.5°	3391.2	3423.8	3566.4	3979.6	5790.6	8392.1	15405.1	27126.5	28444.3	28436.2	25201.4
65°	3128.0	3176.1	3328.5	3663.4	5145.1	7675.7	14143.5	26385.6	28255.2	28262.6	25344.1
67.5°	2852.5	2872.1	3031.8	3300.8	4384.7	7019.6	12511.1	25118.3	26782.5	26950.4	24357.1
70°	2508.6	2498.8	2671.6	2868.0	3583.6	5960.1	10070.1	22864.0	24606.5	24675.8	22361.2
72.5°	1973.9	1982.9	2031.0	2167.1	2720.5	4690.3	7307.3	19317.1	22331.8	22454.9	19810.2
75°	1326.8	1341.5	1565.6	1698.5	1956.8	3370.8	4595.0	13039.2	18878.7	19225.9	16213.6
77.5°	1012.2	1021.2	1086.4	1231.5	1415.7	2402.6	2490.6	7105.2	13744.2	14568.1	12683.8
80°	717.2	720.5	656.1	583.5	753.9	1630.0	1471.1	3026.1	5476.8	6471.9	7449.9
82.5°	321.1	316.2	372.5	309.7	434.4	630.8	694.4	1468.6	2274.7	2445.0	2661.8
85°	149.1	167.1	191.5	160.6	258.4	243.7	270.6	625.9	1066.0	1176.9	1170.3
87.5°	36.7	39.9	50.5	64.4	93.7	83.1	81.5	184.2	238.0	237.2	364.3
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°	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6	6367.6
2.5°	6371.7	6329.3	6229.0	6132.1	6040.0	5978.8	5910.4	5838.7	5795.5	5775.1	5819.1
5°	6403.5	6322.8	6131.2	5938.9	5775.9	5636.5	5538.7	5455.6	5410.8	5414.9	5417.3
7.5°	6430.4	6317.1	6048.9	5777.5	5523.3	5350.5	5222.5	5132.9	5081.5	5042.4	5071.7
10°	6454.0	6293.4	5952.8	5590.9	5314.6	5058.7	4885.1	4776.7	4682.2	4629.2	4670.8
12.5°	6479.3	6284.5	5845.2	5423.8	5066.0	4780.0	4542.0	4434.4	4341.5	4301.6	4326.8
15°	6589.3	6318.7	5744.9	5227.4	4820.7	4450.7	4194.0	4062.0	3988.6	3940.5	3951.1
17.5°	6778.4	6409.2	5680.6	5022.0	4546.9	4155.7	3823.2	3669.1	3547.7	3513.5	3504.5
20°	7047.3	6581.1	5680.6	4848.4	4236.4	3828.1	3445.0	3185.0	2995.9	2925.0	2979.6
22.5°	7498.8	6873.7	5736.8	4691.1	3969.1	3488.2	3031.8	2634.9	2379.8	2276.3	2336.6
25°	8130.4	7326.0	5828.1	4553.4	3725.4	3097.0	2507.8	2051.4	1770.2	1647.1	1645.5
27.5°	8955.2	8018.0	6012.3	4440.9	3433.6	2590.9	1960.9	1521.6	1257.5	1183.4	1194.0
30°	9869.7	8767.8	6360.3	4277.9	3079.1	2024.5	1427.9	1118.2	932.4	834.6	836.2
32.5°	10751.5	9544.5	6773.5	4172.0	2618.6	1526.5	1017.9	797.9	682.2	624.3	633.3
35°	11696.9	10214.4	7080.7	3994.3	2078.3	1103.5	719.6	598.2	550.1	520.0	521.6
37.5°	12718.1	10951.2	7333.4	3756.3	1571.3	758.0	531.4	512.6	492.3	454.0	450.7
40°	13784.9	11804.5	7484.1	3371.7	1092.1	524.9	451.5	472.7	461.3	411.6	407.5
42.5°	14689.6	12463.0	7521.6	2862.3	706.6	425.4	409.1	441.7	444.2	393.6	387.1
45°	15558.4	13049.8	7448.3	2191.5	489.8	400.2	383.1	427.9	431.1	385.5	374.9
47.5°	16530.6	13852.6	7315.4	1462.1	405.1	378.2	374.1	405.1	416.5	379.0	365.9
50°	17711.6	14505.4	6921.8	898.1	382.2	364.3	364.3	383.1	398.5	365.9	359.4
52.5°	18922.7	15074.2	6339.1	616.1	368.4	349.6	360.2	368.4	374.1	344.7	350.5
55°	19790.6	15578.7	5470.3	495.5	360.2	339.9	365.1	348.8	340.7	315.4	309.7
57.5°	20754.0	16178.6	4581.9	439.3	349.6	345.6	348.8	317.9	295.0	269.0	263.2
60°	21426.4	16501.3	3494.7	413.2	337.4	339.9	321.9	280.4	238.8	220.1	216.0
62.5°	22013.2	16685.5	2561.5	379.8	326.0	325.2	291.8	239.6	196.4	176.0	172.8
65°	21924.3	16397.8	1660.2	352.9	317.0	306.4	261.6	205.4	163.8	148.3	146.7
67.5°	20947.1	15124.8	1045.6	325.2	301.6	282.8	234.7	183.4	150.8	132.8	131.2
70°	18895.8	13366.8	639.8	289.3	268.1	250.2	207.8	172.0	142.6	121.4	117.4
72.5°	16060.4	11448.3	452.3	255.1	233.9	212.7	176.0	163.8	136.1	109.2	106.0
75°	13194.9	8432.8	379.0	222.5	199.7	171.2	150.0	152.4	128.0	99.4	97.0
77.5°	9291.8	5257.6	352.9	181.7	157.3	136.1	129.6	139.4	117.4	91.3	88.8
80°	5423.0	2952.7	291.8	143.4	118.2	105.1	108.4	118.2	102.7	82.3	79.1
82.5°	2189.1	1168.7	205.4	111.7	86.4	83.9	88.8	96.2	84.8	69.3	67.6
85°	781.6	365.1	116.5	73.4	55.4	57.9	57.1	68.5	61.1	50.5	49.7
87.5°	205.4	72.5	52.2	29.3	23.6	23.6	22.0	31.8	29.3	22.8	25.3
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)