

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: P510667

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510667
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-CA6-230-740-U-T2
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: 34201 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

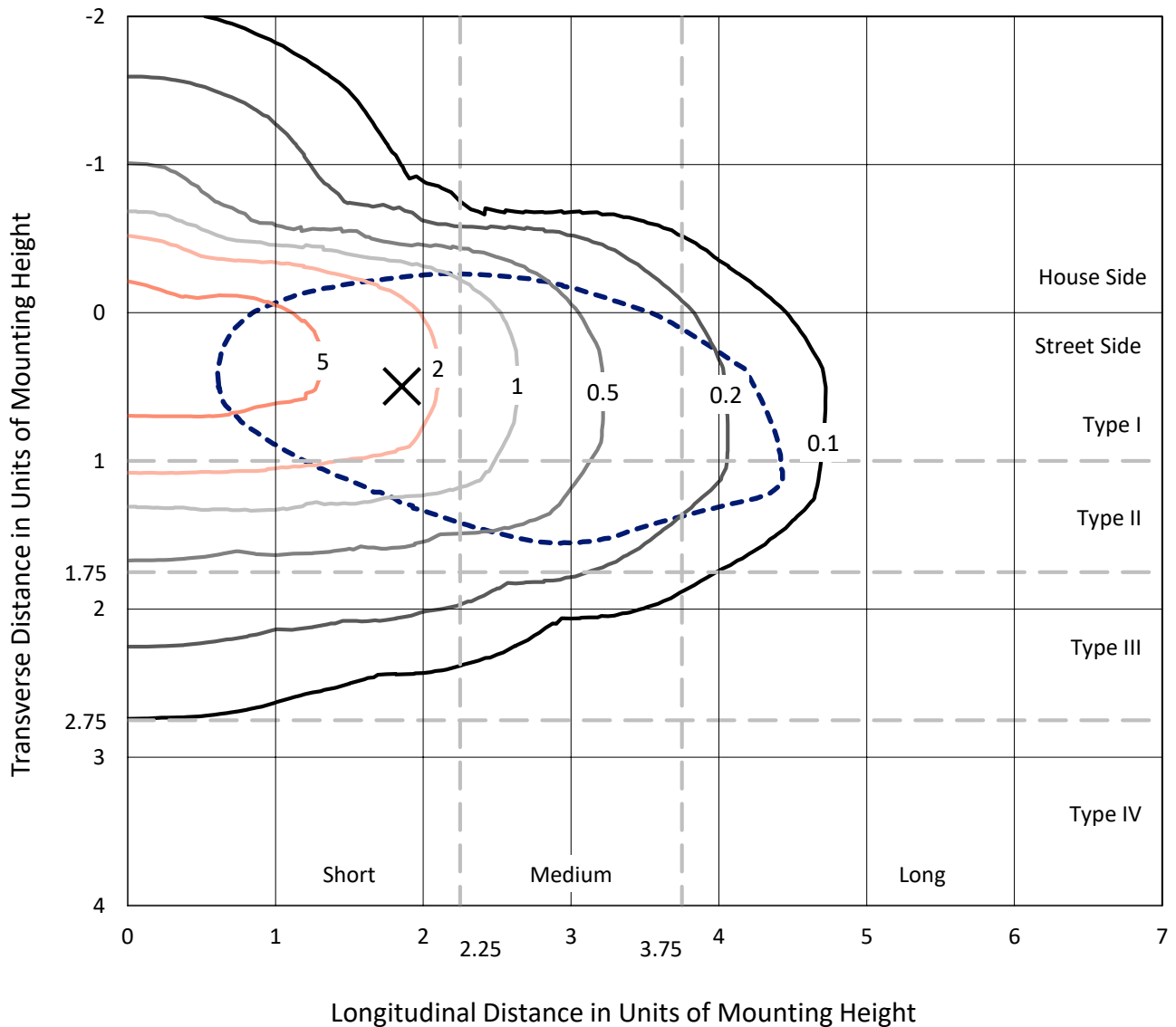
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

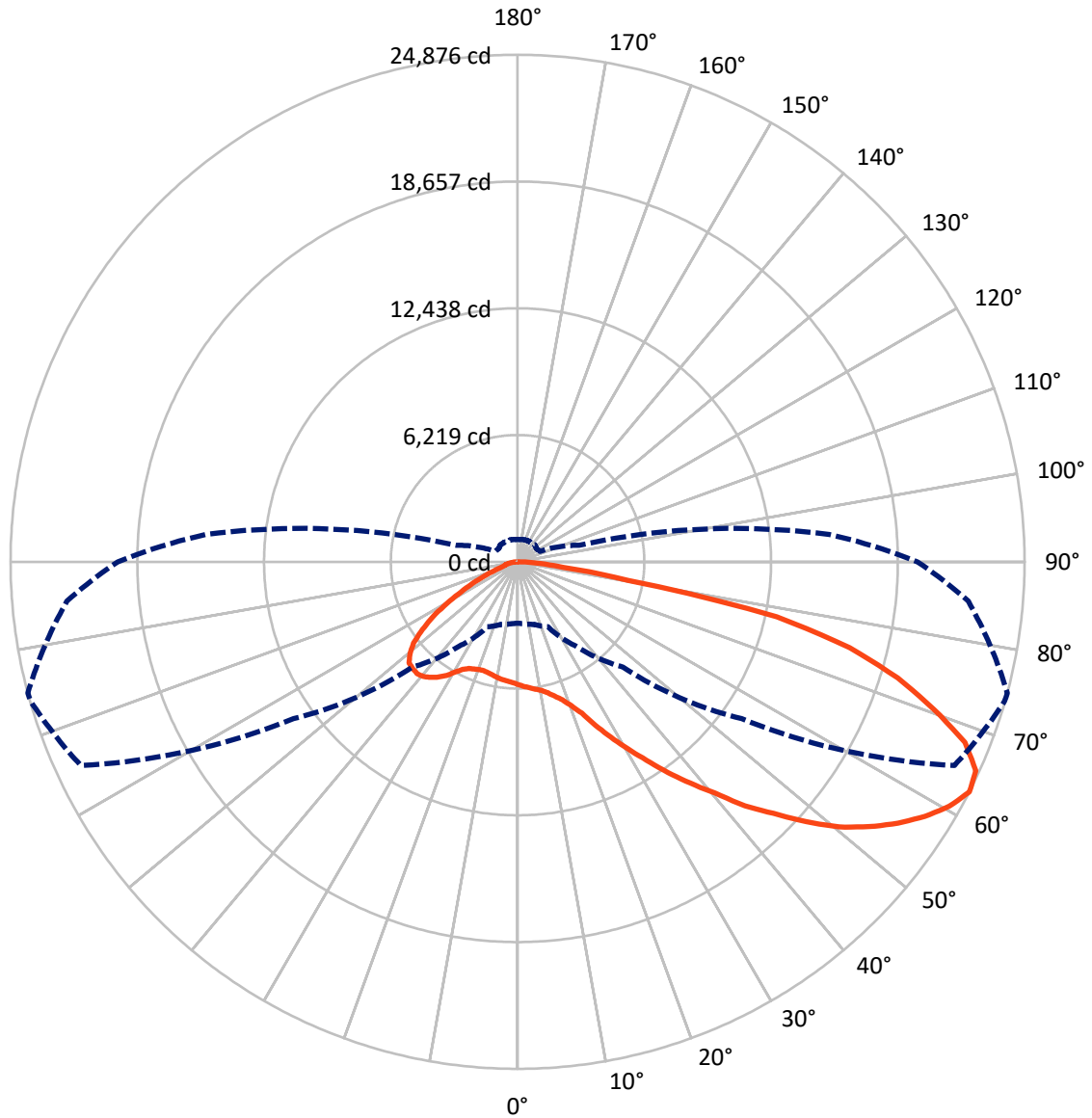
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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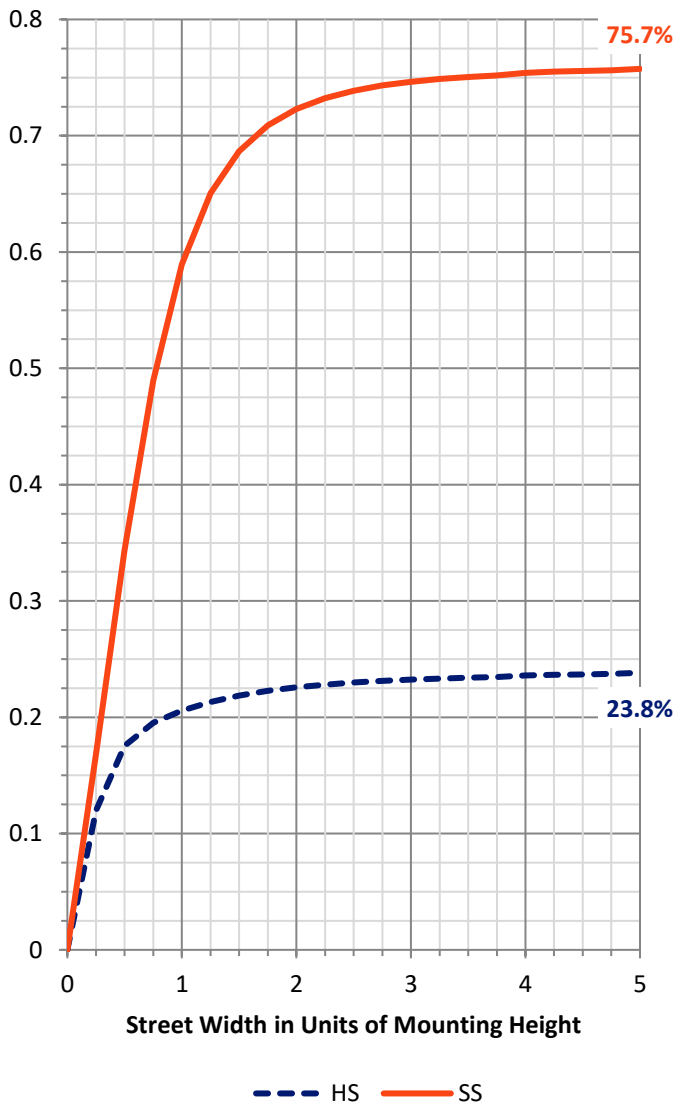
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8286.3	0.0	8286.3
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	25914.7	0.0	25914.7
	% Fixture	75.8	0.0	75.8
Total	Lumens	34201.0	0.0	34201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.0	1.7
10°-20°	1760.2	5.1
20°-30°	3036.0	8.9
30°-40°	4476.6	13.1
40°-50°	5901.1	17.3
50°-60°	6945.1	20.3
60°-70°	6909.7	20.2
70°-80°	4029.5	11.8
80°-90°	562.6	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°	34201.0	100.0
0°-180°	34201.0	100.0

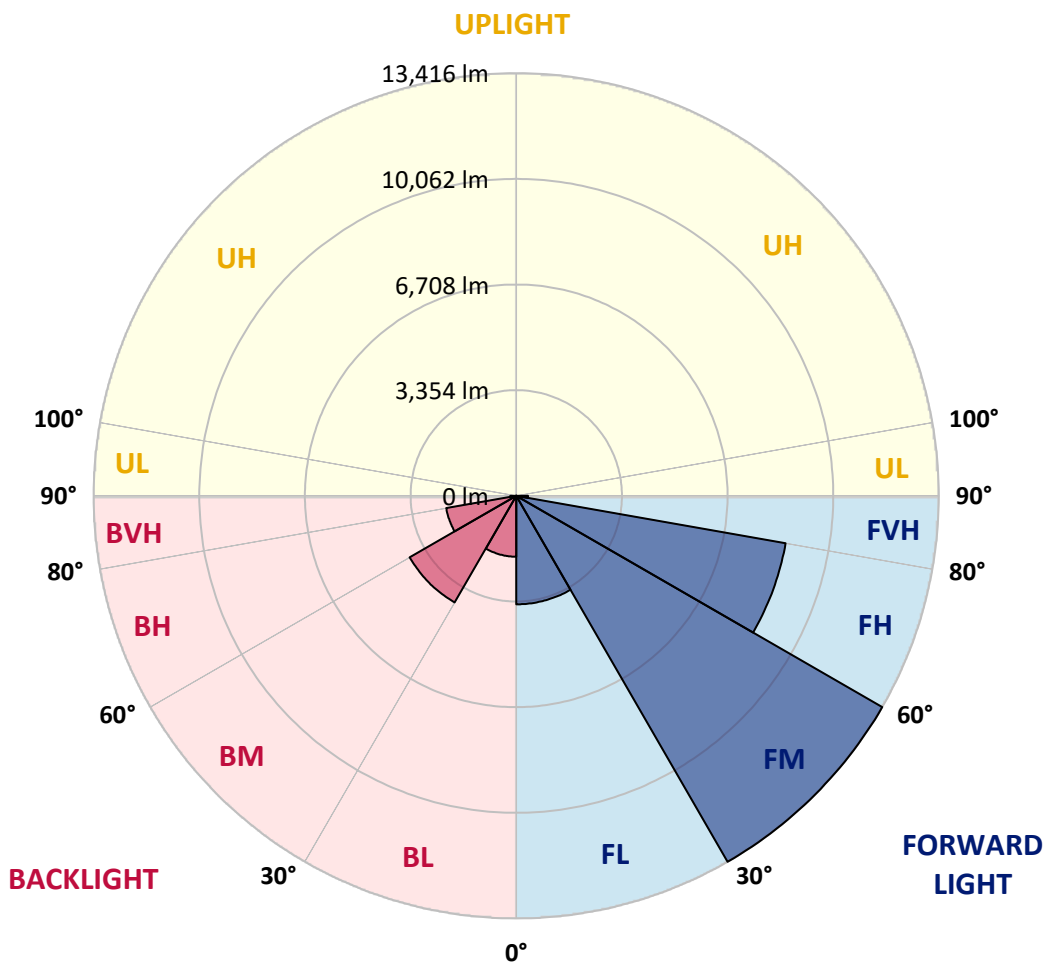


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3443.9	10.1			
FM (30°-60°)	13415.7	39.2			
FH (60°-80°)	8681.8	25.4			G4/12000
FVH (80°-90°)	373.4	1.1			G3/500
BL (0°-30°)	1932.3	5.6	B3/2500		
BM (30°-60°)	3907.2	11.4	B3/5000		
BH (60°-80°)	2257.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	189.3	0.6			G2/225
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°	74°	75°	85°
0°	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9
2.5°	6359.0	6332.9	6336.5	6318.2	6290.7	6270.3	6216.8	6159.1	6124.6	6121.8	6072.5
5°	6678.5	6687.0	6689.1	6630.7	6573.0	6507.5	6425.9	6314.6	6223.8	6209.8	6114.0
7.5°	6970.0	6969.3	6965.0	6932.7	6905.9	6808.8	6645.5	6470.9	6323.1	6309.7	6154.1
10°	7268.4	7266.3	7224.1	7169.9	7109.3	7019.9	6879.9	6670.8	6431.5	6413.9	6191.5
12.5°	7593.6	7570.4	7543.6	7478.2	7406.4	7251.5	7104.4	6877.0	6627.2	6595.5	6257.6
15°	7861.8	7837.9	7800.6	7756.2	7680.9	7562.6	7406.4	7136.8	6868.6	6837.6	6406.1
17.5°	8127.2	8115.9	8089.2	8042.0	7984.3	7882.2	7738.6	7509.8	7158.6	7120.6	6653.2
20°	8344.7	8317.9	8298.2	8320.0	8325.0	8249.6	8170.8	7978.6	7591.5	7533.1	6956.6
22.5°	8468.6	8462.9	8570.6	8650.9	8683.2	8700.1	8675.5	8520.6	8170.1	8068.0	7378.9
25°	8586.1	8577.0	8723.4	8924.0	9114.7	9211.9	9277.3	9297.7	8976.1	8883.9	8058.2
27.5°	8589.6	8615.0	8827.5	9164.0	9454.7	9751.0	10065.0	10100.9	9818.6	9745.4	8831.1
30°	8608.6	8619.9	8830.4	9216.8	9822.1	10297.3	10706.2	10908.3	10664.7	10630.9	9682.1
32.5°	8367.2	8382.0	8709.3	9309.0	10099.5	10862.5	11405.2	11705.1	11644.5	11601.6	10590.1
35°	8115.9	8128.6	8508.7	9178.1	10305.7	11375.6	12036.6	12625.8	12736.3	12703.9	11603.0
37.5°	7721.7	7764.0	8162.4	9021.8	10341.6	11752.9	12639.1	13542.9	13876.6	13779.4	12674.3
40°	7293.8	7324.7	7788.6	8694.5	10301.5	12000.7	13231.1	14557.9	14962.0	14909.9	13737.9
42.5°	6753.2	6836.2	7300.8	8276.4	10095.3	12154.8	13778.7	15708.8	16295.9	16365.5	14714.9
45°	6297.7	6295.6	6727.1	7671.0	9721.5	12191.5	14282.7	16872.3	17731.1	17600.2	16006.6
47.5°	5762.1	5783.9	6234.4	7068.5	9170.3	12075.3	14675.5	18247.8	19117.1	19046.0	17065.9
50°	4522.5	4679.5	5532.6	6550.4	8424.9	11751.5	15002.8	19587.3	20417.2	20449.5	18028.8
52.5°	3898.9	3959.4	4430.3	6028.9	7763.3	11208.1	15361.8	21094.3	21673.6	21591.3	19122.0
55°	3649.0	3681.4	3907.3	5092.0	7123.4	10367.0	15534.2	22470.4	22653.4	22640.1	20021.6
57.5°	3468.1	3492.7	3653.2	4249.4	6420.9	9287.2	15388.5	23365.8	23650.1	23562.9	20870.5
60°	3206.9	3226.7	3466.0	3829.2	5698.0	8196.8	14492.5	23771.9	24373.0	24340.7	21620.8
62.5°	3010.6	3044.3	3178.1	3518.8	5080.7	7298.7	13424.7	23645.2	24847.5	24876.3	22193.8
65°	2802.9	2833.2	2946.5	3244.2	4521.1	6708.1	12273.1	23010.3	24629.3	24706.0	22286.7
67.5°	2546.7	2569.9	2704.4	2962.0	3867.2	6117.5	10974.4	21887.6	23418.6	23665.6	21361.8
70°	2224.3	2232.8	2397.5	2572.7	3211.2	5227.1	8726.2	20049.7	21666.6	21671.5	19615.4
72.5°	1770.3	1777.3	1821.0	1954.0	2412.2	4136.8	6413.9	16752.7	19536.6	19500.7	17433.4
75°	1203.7	1265.6	1416.9	1543.6	1740.0	2905.0	3989.0	11286.9	16552.1	16833.6	14320.0
77.5°	951.0	956.6	1019.2	1135.4	1305.0	2170.1	2235.6	6245.0	12340.0	13009.4	11256.0
80°	663.1	672.9	639.1	667.3	910.1	1485.2	1306.4	2717.7	5146.2	5494.6	6758.1
82.5°	316.0	327.3	375.9	349.1	452.6	631.4	689.8	1404.3	2222.9	2281.3	2631.2
85°	208.4	208.4	209.1	197.8	264.0	275.2	313.2	599.0	1085.4	1122.0	1115.7
87.5°	66.9	73.9	71.8	83.8	101.4	91.5	95.7	187.9	372.4	368.8	308.3
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°	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9	6028.9
2.5°	6037.3	6008.4	5940.9	5881.7	5823.3	5779.0	5741.0	5690.3	5666.3	5644.5	5690.3
5°	6054.9	6003.5	5882.4	5761.4	5650.2	5568.5	5518.5	5481.9	5448.8	5448.8	5464.3
7.5°	6075.3	6005.6	5832.5	5660.7	5493.9	5401.0	5329.9	5283.4	5256.7	5258.1	5291.2
10°	6088.7	5981.7	5775.5	5543.9	5362.3	5213.0	5143.4	5076.5	5025.8	4995.5	5029.3
12.5°	6104.2	5974.0	5698.7	5437.6	5216.6	5047.6	4902.6	4852.6	4803.4	4765.4	4783.7
15°	6199.9	6003.5	5634.7	5302.4	5046.2	4835.8	4645.7	4554.2	4540.1	4514.1	4520.4
17.5°	6356.2	6083.1	5593.1	5137.0	4841.4	4592.9	4352.2	4233.9	4205.8	4192.4	4199.4
20°	6589.2	6234.4	5605.8	5020.9	4610.5	4332.5	4021.3	3882.7	3789.1	3794.7	3822.1
22.5°	6945.3	6478.6	5674.8	4893.5	4360.6	3996.0	3682.1	3493.4	3399.1	3378.7	3409.7
25°	7512.7	6872.1	5750.8	4771.7	4119.2	3632.8	3285.1	3080.9	2959.9	2952.1	2986.6
27.5°	8239.8	7475.4	5916.2	4666.1	3819.3	3196.4	2850.8	2676.2	2547.4	2531.9	2520.6
30°	8983.8	8145.5	6215.4	4505.6	3469.5	2745.9	2445.3	2308.8	2164.5	2106.1	2118.7
32.5°	9772.2	8769.8	6565.9	4393.0	3078.1	2349.6	2088.5	1958.2	1825.9	1741.4	1721.7
35°	10566.2	9390.7	6860.9	4224.8	2707.2	2035.0	1785.1	1650.6	1535.2	1466.2	1461.3
37.5°	11495.3	10036.8	7097.4	4046.0	2322.1	1788.6	1488.0	1410.6	1355.0	1294.5	1300.8
40°	12425.8	10790.0	7286.7	3750.3	2002.6	1523.9	1266.3	1281.8	1293.8	1243.1	1238.9
42.5°	13198.7	11422.8	7373.3	3367.4	1719.6	1293.8	1168.5	1238.9	1290.9	1257.9	1253.6
45°	13983.6	11955.6	7339.5	2892.3	1484.5	1184.0	1160.7	1232.5	1299.4	1291.6	1288.1
47.5°	14836.7	12653.9	7281.1	2351.0	1316.3	1173.4	1177.6	1211.4	1295.9	1309.9	1304.3
50°	15879.9	13296.6	6935.5	1830.8	1234.6	1190.3	1215.6	1198.0	1269.8	1298.7	1303.6
52.5°	16918.1	13791.4	6473.0	1586.6	1202.3	1206.5	1268.4	1208.6	1240.3	1265.6	1288.8
55°	17719.1	14295.4	5724.8	1439.5	1191.7	1214.2	1283.2	1231.1	1230.4	1230.4	1238.2
57.5°	18539.2	14970.4	4976.5	1344.4	1173.4	1222.7	1265.6	1235.3	1225.5	1211.4	1202.3
60°	19110.0	15220.3	4015.0	1281.8	1154.4	1210.7	1216.3	1212.1	1181.8	1168.5	1157.9
62.5°	19616.8	15356.2	3126.0	1210.0	1128.3	1182.5	1153.0	1143.8	1126.2	1093.9	1099.5
65°	19481.0	15064.7	2382.0	1129.0	1110.0	1148.8	1097.4	1075.6	1077.0	1043.2	1054.4
67.5°	18606.7	13757.6	1710.5	1005.2	1060.1	1081.9	1034.0	1017.8	993.9	977.0	992.5
70°	16840.7	12195.7	1153.7	834.1	946.0	993.2	961.5	933.4	896.1	884.8	901.7
72.5°	14174.3	10180.4	796.1	670.8	816.5	877.8	865.8	836.9	810.2	837.6	870.7
75°	11644.5	7531.7	649.7	549.7	627.9	731.3	766.5	775.0	855.2	1122.7	1150.2
77.5°	8382.0	4668.9	584.2	447.0	501.2	584.9	655.3	684.2	1044.6	1000.2	998.1
80°	4887.1	2721.3	445.6	352.7	405.4	428.7	512.4	803.1	901.0	772.9	753.9
82.5°	2229.9	1200.8	310.4	282.3	281.6	283.7	349.1	772.9	691.2	608.9	586.3
85°	820.0	422.3	188.6	163.3	187.2	162.6	228.8	566.6	400.5	394.2	328.7
87.5°	202.0	86.6	64.1	53.5	43.6	41.5	69.7	186.5	97.8	89.4	85.9
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)