

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: McGRAW-EDISON

Report Number: P510687

Luminaire Tested: **CTN-CA6-230-760-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510687  
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: McGRAW-EDISON  
Catalog Number: CTN-CA6-230-760-U-T2  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34090 lumens  
Efficiency: N/A  
Efficacy: 149.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

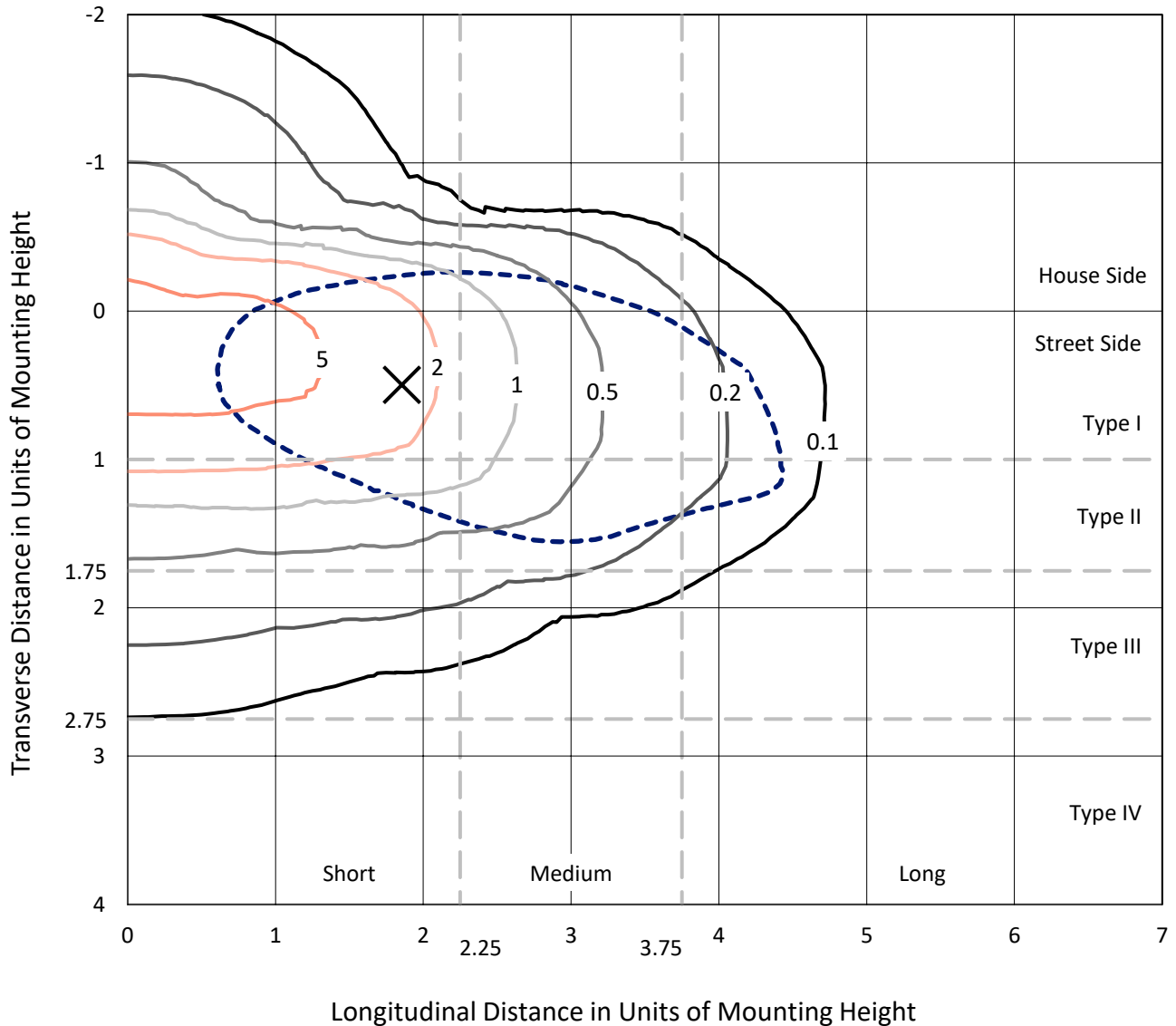
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

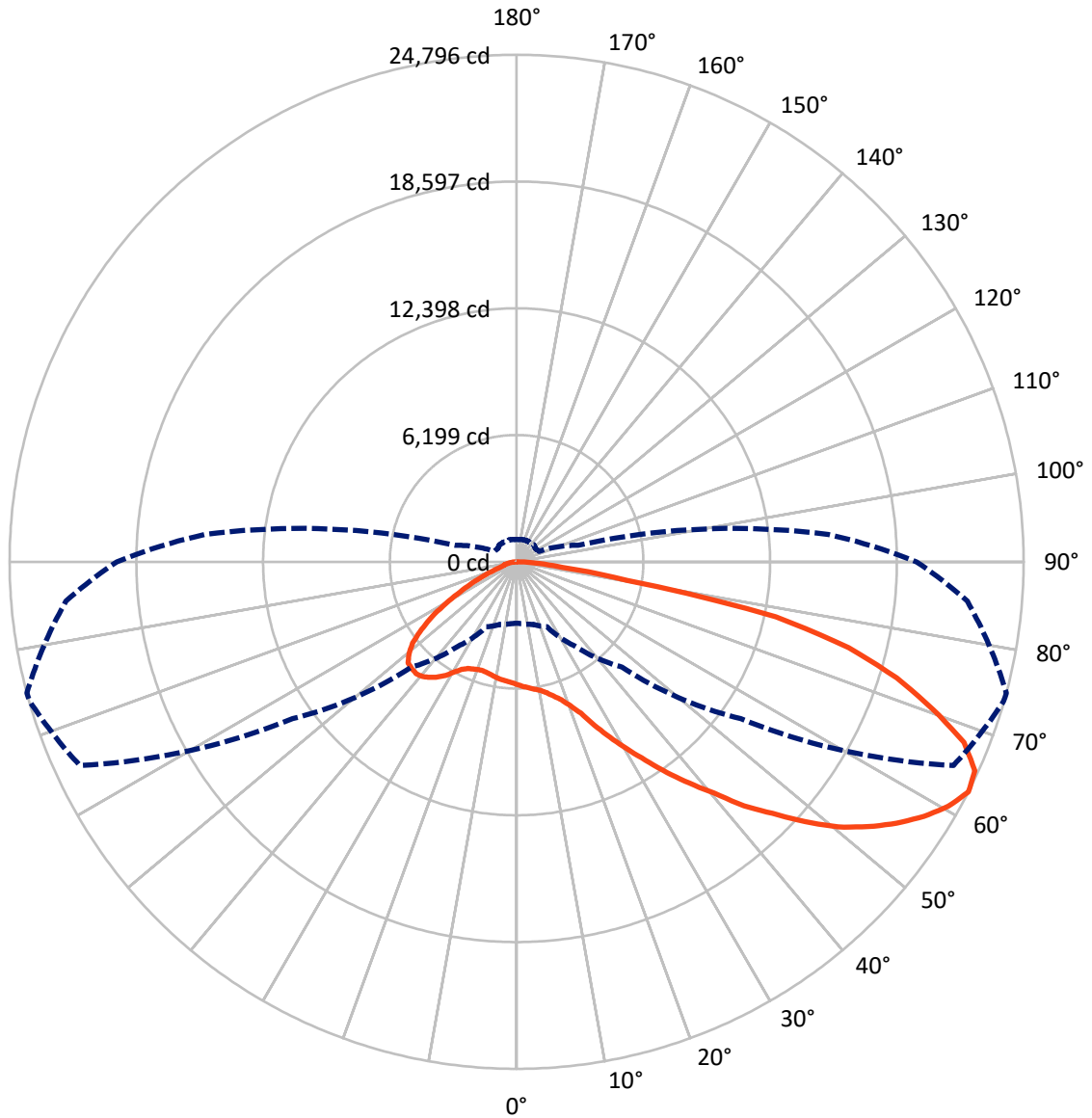
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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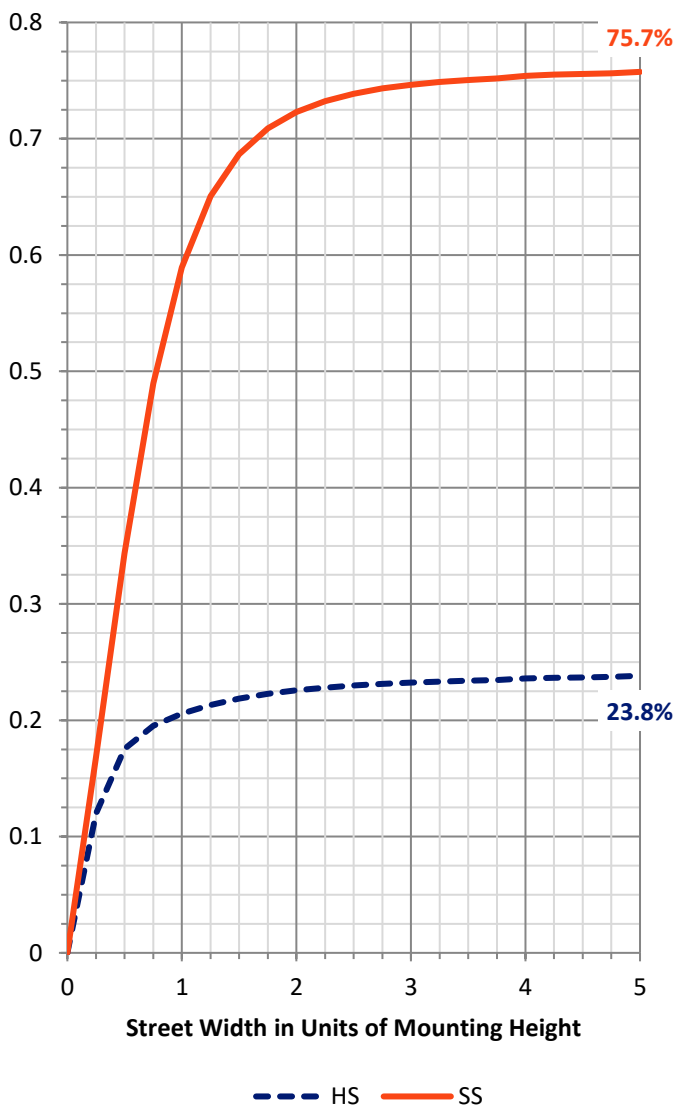
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8259.4	0.0	8259.4
	% Fixture	24.2	0.0	24.2
<b>Street Side</b>	Lumens	25830.6	0.0	25830.6
	% Fixture	75.8	0.0	75.8
<b>Total</b>	Lumens	34090.0	0.0	34090.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.1	1.7
10°-20°	1754.5	5.1
20°-30°	3026.1	8.9
30°-40°	4462.1	13.1
40°-50°	5882.0	17.3
50°-60°	6922.6	20.3
60°-70°	6887.3	20.2
70°-80°	4016.5	11.8
80°-90°	560.8	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°	34090.0	100.0
0°-180°	34090.0	100.0

**Coefficient of Utilization**

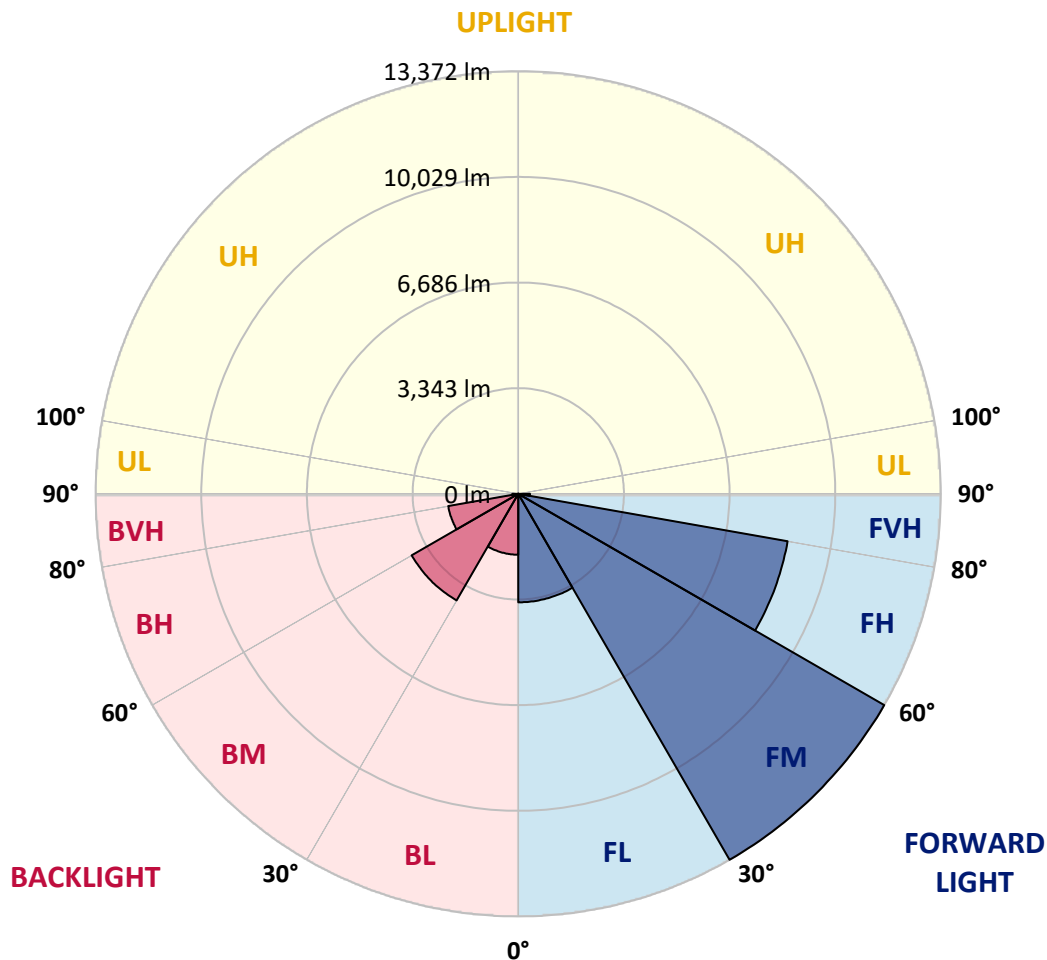


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3432.7	10.1			
FM (30°-60°)	13372.1	39.2			
FH (60°-80°)	8653.6	25.4			G4/12000
FVH (80°-90°)	372.2	1.1			G3/500
BL (0°-30°)	1926.1	5.6	B3/2500		
BM (30°-60°)	3894.6	11.4	B3/5000		
BH (60°-80°)	2250.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	188.7	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°	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3
2.5°	6338.3	6312.4	6315.9	6297.7	6270.3	6249.9	6196.6	6139.1	6104.7	6101.9	6052.8
5°	6656.9	6665.3	6667.4	6609.2	6551.6	6486.4	6405.0	6294.1	6203.6	6189.6	6094.2
7.5°	6947.3	6946.6	6942.4	6910.2	6883.5	6786.7	6623.9	6449.9	6302.6	6289.2	6134.2
10°	7244.8	7242.7	7200.6	7146.6	7086.3	6997.2	6857.5	6649.2	6410.6	6393.1	6171.4
12.5°	7569.0	7545.8	7519.2	7453.9	7382.3	7228.0	7081.3	6854.7	6605.7	6574.1	6237.3
15°	7836.3	7812.4	7775.2	7731.0	7656.0	7538.1	7382.3	7113.6	6846.3	6815.4	6385.4
17.5°	8100.8	8089.6	8062.9	8015.9	7958.4	7856.6	7713.5	7485.5	7135.4	7097.5	6631.6
20°	8317.6	8290.9	8271.3	8293.0	8297.9	8222.9	8144.3	7952.7	7566.9	7508.6	6934.0
22.5°	8441.1	8435.5	8542.8	8622.8	8655.1	8671.9	8647.3	8493.0	8143.6	8041.9	7355.0
25°	8558.2	8549.1	8695.1	8895.0	9085.1	9182.0	9247.2	9267.6	8946.9	8855.0	8032.0
27.5°	8561.7	8587.0	8798.9	9134.3	9424.0	9719.4	10032.3	10068.1	9786.8	9713.8	8802.4
30°	8580.7	8591.9	8801.7	9186.9	9790.3	10263.9	10671.5	10872.8	10630.1	10596.4	9650.6
32.5°	8340.0	8354.8	8681.0	9278.8	10066.7	10827.2	11368.2	11667.1	11606.7	11563.9	10555.7
35°	8089.6	8102.2	8481.1	9148.3	10272.3	11338.7	11997.5	12584.8	12694.9	12662.7	11565.3
37.5°	7696.7	7738.8	8135.9	8992.5	10308.1	11714.8	12598.1	13499.0	13831.5	13734.7	12633.2
40°	7270.1	7301.0	7763.3	8666.3	10268.1	11961.7	13188.2	14510.7	14913.4	14861.5	13693.3
42.5°	6731.2	6814.0	7277.1	8249.5	10062.5	12115.4	13734.0	15657.8	16243.0	16312.4	14667.2
45°	6277.3	6275.2	6705.3	7646.1	9689.9	12151.9	14236.4	16817.6	17673.6	17543.1	15954.6
47.5°	5743.4	5765.1	6214.2	7045.6	9140.6	12036.1	14627.9	18188.5	19055.0	18984.2	17010.5
50°	4507.8	4664.3	5514.7	6529.2	8397.6	11713.4	14954.1	19523.7	20350.9	20383.2	17970.3
52.5°	3886.2	3946.6	4415.9	6009.3	7738.1	11171.7	15311.9	21025.8	21603.3	21521.2	19059.9
55°	3637.1	3669.4	3894.6	5075.4	7100.3	10333.3	15483.8	22397.5	22579.9	22566.6	19956.6
57.5°	3456.8	3481.4	3641.4	4235.6	6400.1	9257.0	15338.6	23289.9	23573.4	23486.4	20802.7
60°	3196.5	3216.2	3454.7	3816.8	5679.5	8170.2	14445.4	23694.8	24293.9	24261.7	21550.6
62.5°	3000.8	3034.5	3167.8	3507.3	5064.2	7275.0	13381.1	23568.5	24766.8	24795.6	22121.8
65°	2793.8	2824.0	2936.9	3233.7	4506.4	6686.3	12233.3	22935.6	24549.3	24625.8	22214.4
67.5°	2538.4	2561.6	2695.6	2952.4	3854.6	6097.7	10938.8	21816.6	23342.6	23588.8	21292.5
70°	2217.1	2225.5	2389.7	2564.4	3200.7	5210.2	8697.9	19984.7	21596.3	21601.2	19551.8
72.5°	1764.5	1771.6	1815.1	1947.7	2404.4	4123.4	6393.1	16698.3	19473.2	19437.4	17376.8
75°	1199.8	1261.5	1412.3	1538.6	1734.4	2895.5	3976.0	11250.3	16498.4	16779.0	14273.6
77.5°	947.9	953.5	1015.9	1131.7	1300.8	2163.1	2228.3	6224.7	12299.9	12967.2	11219.4
80°	660.9	670.7	637.1	665.1	907.2	1480.4	1302.2	2708.9	5129.5	5476.8	6736.2
82.5°	315.0	326.2	374.7	348.0	451.1	629.3	687.6	1399.7	2215.7	2273.9	2622.6
85°	207.7	207.7	208.4	197.2	263.1	274.3	312.2	597.1	1081.9	1118.4	1112.1
87.5°	66.7	73.7	71.6	83.5	101.0	91.2	95.4	187.3	371.2	367.6	307.3
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°	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3	6009.3
2.5°	6017.7	5988.9	5921.6	5862.7	5804.4	5760.2	5722.3	5671.8	5648.0	5626.2	5671.8
5°	6035.2	5984.0	5863.4	5742.7	5631.8	5550.4	5500.6	5464.1	5431.2	5431.2	5446.6
7.5°	6055.6	5986.1	5813.5	5642.3	5476.1	5383.5	5312.6	5266.3	5239.6	5241.0	5274.0
10°	6068.9	5962.3	5756.7	5525.9	5344.9	5196.1	5126.7	5060.0	5009.5	4979.3	5013.0
12.5°	6084.4	5954.6	5680.2	5419.9	5199.6	5031.2	4886.7	4836.9	4787.8	4749.9	4768.1
15°	6179.8	5984.0	5616.4	5285.2	5029.8	4820.1	4630.6	4539.4	4525.4	4499.4	4505.7
17.5°	6335.5	6063.3	5575.0	5120.3	4825.7	4578.0	4338.1	4220.2	4192.1	4178.8	4185.8
20°	6567.8	6214.2	5587.6	5004.6	4595.5	4318.4	4008.3	3870.1	3776.8	3782.4	3809.7
22.5°	6922.8	6457.6	5656.4	4877.6	4346.5	3983.0	3670.1	3482.1	3388.1	3367.7	3398.6
25°	7488.3	6849.8	5732.2	4756.2	4105.8	3621.0	3274.4	3070.9	2950.3	2942.6	2976.9
27.5°	8213.0	7451.1	5897.0	4651.0	3806.9	3186.0	2841.5	2667.5	2539.1	2523.7	2512.5
30°	8954.6	8119.0	6195.2	4491.0	3458.2	2737.0	2437.4	2301.3	2157.5	2099.2	2111.8
32.5°	9740.4	8741.4	6544.6	4378.7	3068.1	2342.0	2081.7	1951.9	1820.0	1735.8	1716.1
35°	10531.9	9360.2	6838.6	4211.1	2698.4	2028.4	1779.3	1645.3	1530.2	1461.5	1456.5
37.5°	11458.0	10004.3	7074.3	4032.9	2314.6	1782.8	1483.2	1406.0	1350.6	1290.3	1296.6
40°	12385.5	10755.0	7263.1	3738.2	1996.1	1519.0	1262.2	1277.6	1289.6	1239.0	1234.8
42.5°	13155.9	11385.7	7349.4	3356.5	1714.0	1289.6	1164.7	1234.8	1286.8	1253.8	1249.6
45°	13938.2	11916.8	7315.7	2882.9	1479.7	1180.1	1157.0	1228.5	1295.2	1287.5	1283.9
47.5°	14788.5	12612.8	7257.5	2343.4	1312.0	1169.6	1173.8	1207.5	1291.7	1305.7	1300.1
50°	15828.3	13253.4	6913.0	1824.9	1230.6	1186.4	1211.7	1194.1	1265.7	1294.5	1299.4
52.5°	16863.2	13746.6	6452.0	1581.4	1198.3	1202.6	1264.3	1204.7	1236.2	1261.5	1284.6
55°	17661.6	14249.0	5706.2	1434.8	1187.8	1210.3	1279.0	1227.1	1226.4	1226.4	1234.1
57.5°	18479.0	14921.8	4960.4	1340.1	1169.6	1218.7	1261.5	1231.3	1221.5	1207.5	1198.3
60°	19048.0	15170.9	4002.0	1277.6	1150.6	1206.8	1212.4	1208.2	1178.0	1164.7	1154.1
62.5°	19553.2	15306.3	3115.8	1206.1	1124.7	1178.7	1149.2	1140.1	1122.6	1090.3	1095.9
65°	19417.8	15015.9	2374.2	1125.4	1106.4	1145.0	1093.8	1072.1	1073.5	1039.8	1051.0
67.5°	18546.4	13713.0	1704.9	1001.9	1056.6	1078.4	1030.7	1014.5	990.7	973.8	989.3
70°	16786.0	12156.1	1149.9	831.4	943.0	990.0	958.4	930.3	893.1	881.9	898.8
72.5°	14128.3	10147.4	793.5	668.6	813.9	874.9	863.0	834.2	807.6	834.9	867.9
75°	11606.7	7507.2	647.6	548.0	625.8	729.0	764.1	772.5	852.5	1119.1	1146.4
77.5°	8354.8	4653.8	582.3	445.5	499.5	583.0	653.2	682.0	1041.2	997.0	994.9
80°	4871.3	2712.4	444.1	351.5	404.1	427.3	510.8	800.5	898.1	770.4	751.4
82.5°	2222.7	1196.9	309.4	281.3	280.6	282.7	348.0	770.4	689.0	606.9	584.4
85°	817.4	421.0	188.0	162.8	186.6	162.1	228.0	564.8	399.2	392.9	327.7
87.5°	201.4	86.3	63.8	53.3	43.5	41.4	69.5	185.9	97.5	89.1	85.6
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)