

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: P510659

Luminaire Tested: **CTN-CA6-230-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-730-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33900 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

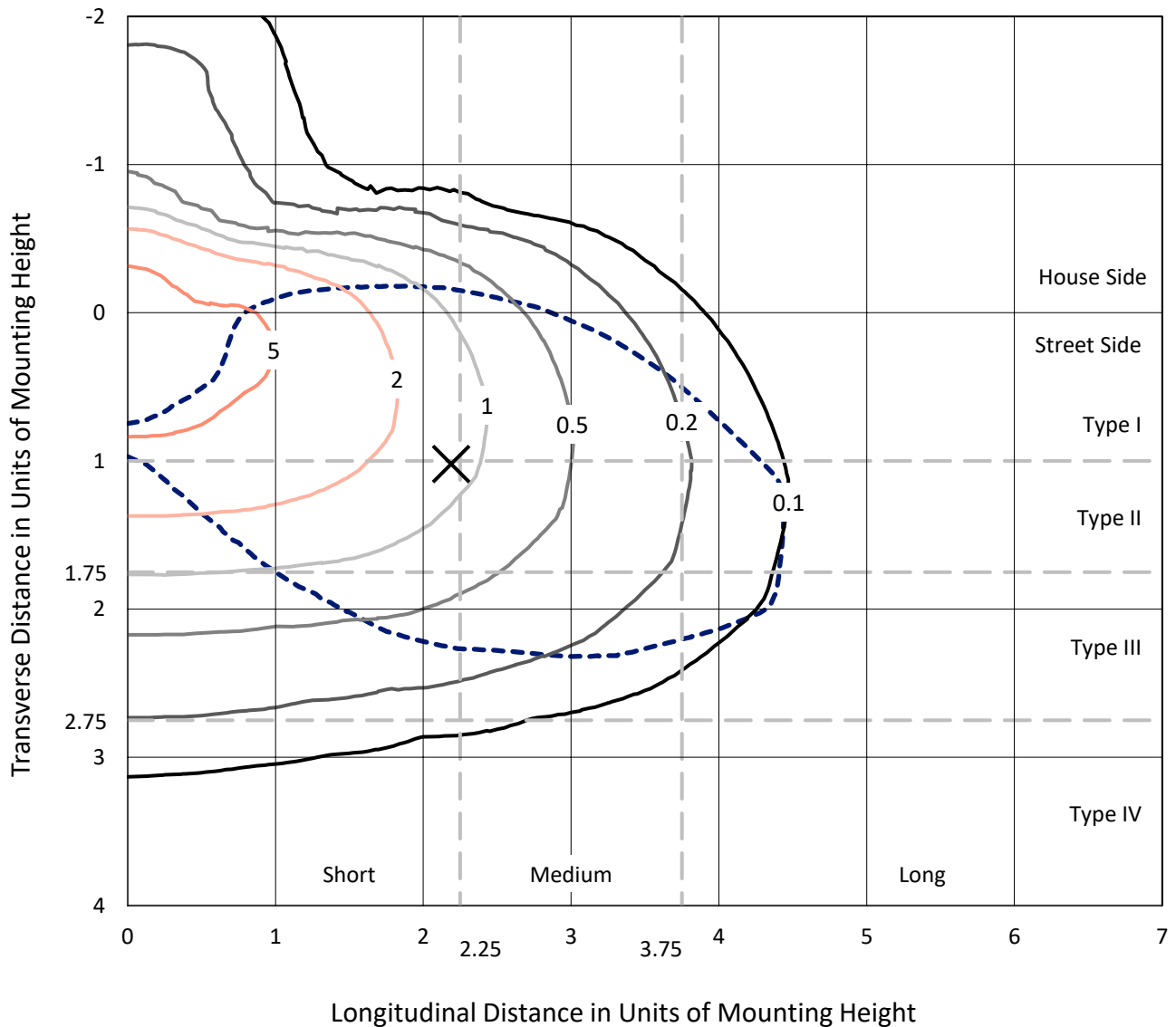
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

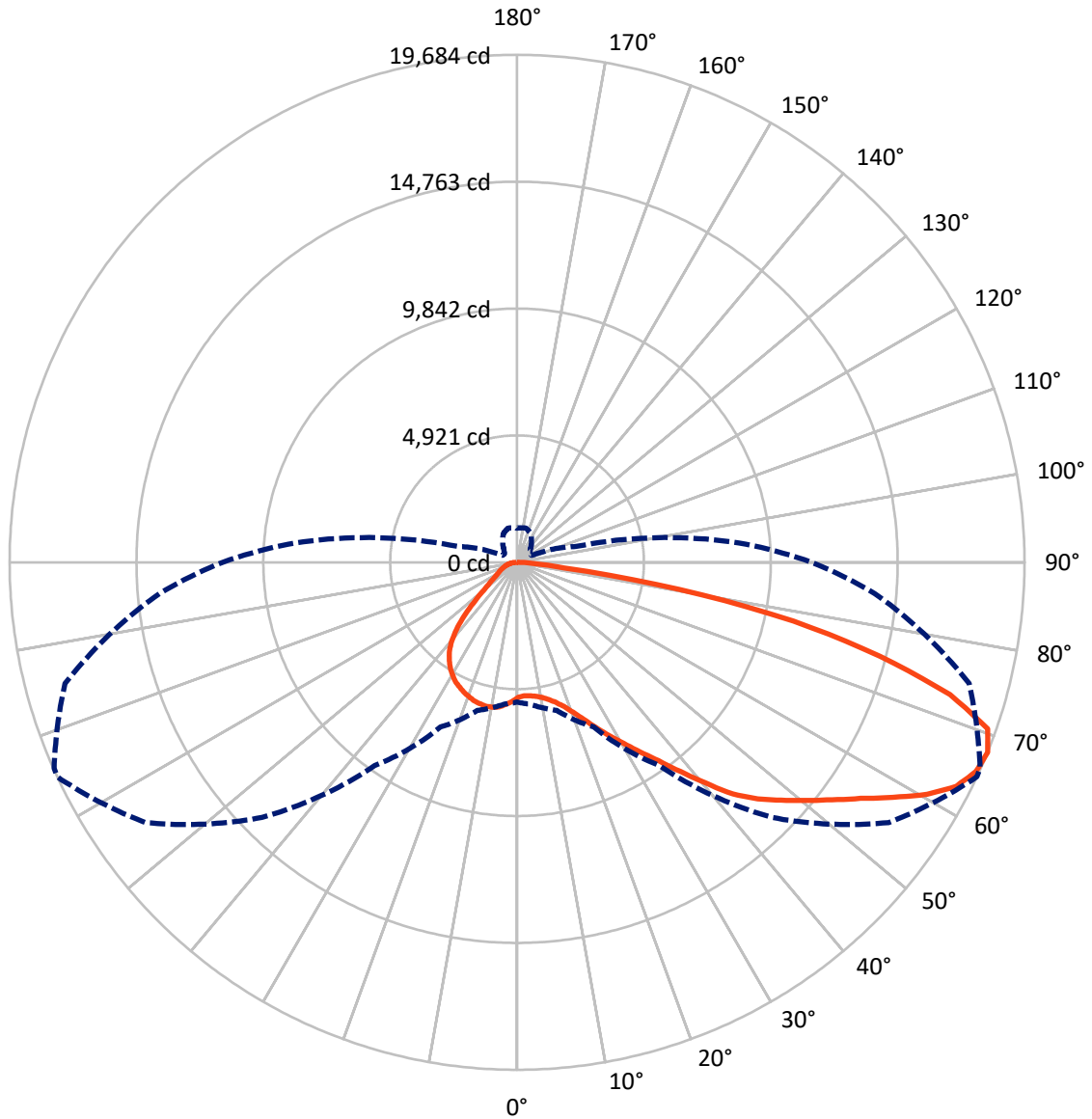
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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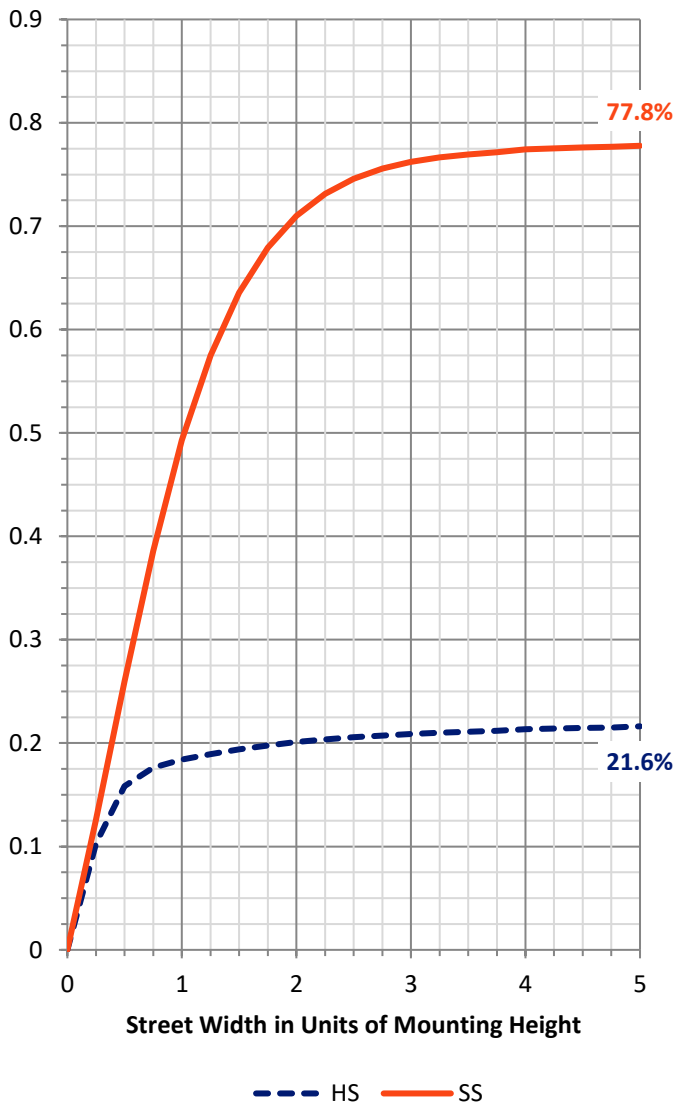
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7488.1	0.0	7488.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26411.9	0.0	26411.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	33900.0	0.0	33900.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.7	1.5
10°-20°	1630.0	4.8
20°-30°	2821.8	8.3
30°-40°	4146.3	12.2
40°-50°	5604.2	16.5
50°-60°	6891.5	20.3
60°-70°	7384.7	21.8
70°-80°	4355.4	12.8
80°-90°	544.4	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°	33900.0	100.0
0°-180°	33900.0	100.0

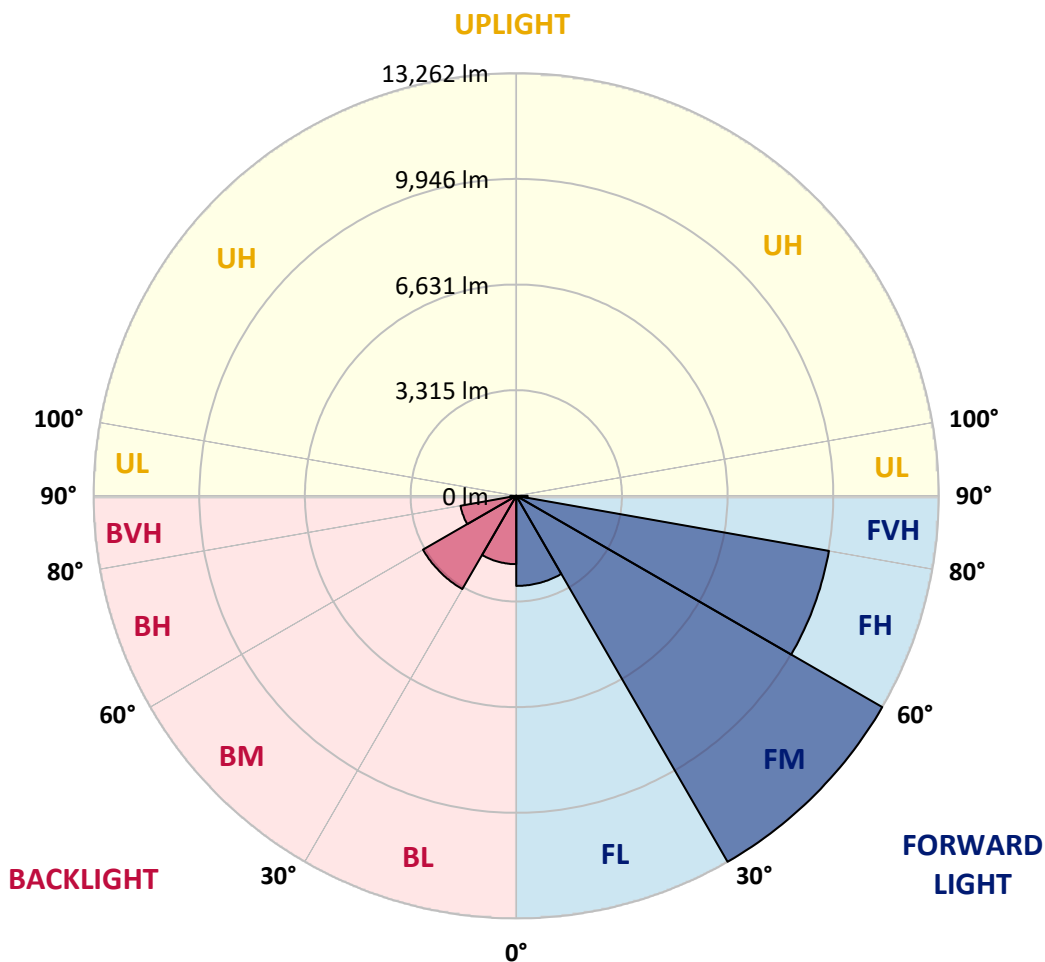


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.7	8.3			
FM (30°-60°)	13261.9	39.1			
FH (60°-80°)	9964.3	29.4			G4/12000
FVH (80°-90°)	357.0	1.1			G3/500
BL (0°-30°)	2144.8	6.3	B3/2500		
BM (30°-60°)	3380.1	10.0	B3/5000		
BH (60°-80°)	1775.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	187.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3
2.5°	5137.4	5127.8	5123.6	5136.7	5146.4	5157.5	5173.4	5188.6	5190.6	5210.7	5237.0
5°	5199.6	5191.3	5182.4	5180.3	5176.8	5176.1	5180.3	5197.6	5201.7	5221.1	5277.7
7.5°	5337.9	5329.6	5313.0	5306.8	5288.1	5254.9	5239.0	5248.0	5250.1	5273.6	5344.1
10°	5563.2	5537.6	5517.6	5496.8	5438.1	5385.6	5346.9	5330.3	5326.8	5349.6	5431.2
12.5°	5832.0	5810.6	5788.5	5733.9	5659.3	5564.6	5496.1	5458.1	5455.4	5474.7	5536.2
15°	6116.1	6116.1	6100.9	6035.9	5962.7	5805.8	5700.0	5636.4	5640.6	5655.8	5684.1
17.5°	6483.1	6452.7	6445.8	6371.8	6290.3	6147.2	5979.3	5877.7	5882.5	5889.4	5868.0
20°	6856.4	6847.4	6837.0	6787.9	6714.0	6530.1	6341.4	6208.0	6208.7	6183.9	6088.5
22.5°	7349.8	7320.1	7327.7	7272.4	7172.2	6983.5	6766.5	6608.2	6618.6	6582.7	6409.9
25°	7839.9	7810.2	7794.3	7756.9	7670.5	7491.5	7233.7	7088.6	7076.1	7011.2	6760.3
27.5°	8329.2	8311.9	8325.1	8280.2	8209.7	8009.9	7773.5	7612.5	7620.8	7575.9	7201.9
30°	8835.9	8816.5	8873.9	8801.3	8757.7	8563.5	8336.8	8147.5	8154.4	8171.0	7751.4
32.5°	9218.1	9240.9	9341.1	9332.8	9324.5	9108.2	8869.7	8764.7	8775.0	8833.1	8403.9
35°	9587.1	9589.2	9730.2	9836.7	9881.6	9700.5	9453.1	9449.6	9517.3	9694.3	9313.4
37.5°	9893.3	9886.4	10074.4	10239.6	10362.6	10222.3	10086.2	10298.4	10359.9	10726.9	10229.2
40°	10060.6	10075.1	10317.0	10523.0	10764.9	10698.5	10713.1	11255.6	11407.0	11728.4	10914.2
42.5°	9943.1	9987.3	10364.0	10784.2	11149.2	11237.6	11529.3	12289.6	12353.9	12411.9	11588.1
45°	9746.1	9792.4	10209.9	10888.6	11466.4	11840.3	12341.4	13085.1	13155.6	13090.7	12148.6
47.5°	9540.8	9588.5	10053.7	10846.4	11729.1	12445.8	13063.7	13788.7	13878.6	13677.5	12687.7
50°	9280.3	9354.2	9862.9	10757.3	11941.9	13099.0	13747.3	14513.1	14554.5	14264.3	13096.2
52.5°	8959.6	9041.1	9591.3	10604.5	12108.5	13555.1	14439.1	15298.9	15294.8	14949.9	13563.4
55°	8622.3	8696.2	9263.0	10364.0	12201.8	13906.2	14992.1	16165.0	16214.7	15925.8	13986.4
57.5°	8190.3	8257.3	8875.2	10040.6	12105.1	14204.1	15887.8	17194.1	17219.0	16605.2	14323.0
60°	7618.0	7716.9	8337.5	9629.3	11827.2	14549.0	16874.8	18276.5	18306.9	17273.6	14539.3
62.5°	6989.8	7029.1	7661.6	8996.2	11422.9	14815.1	17559.0	19123.1	19078.9	17796.1	14604.3
65°	6223.9	6255.0	6802.4	8182.0	10671.6	14669.3	17804.4	19558.6	19504.0	18124.4	14404.6
67.5°	5422.2	5518.3	5948.2	7052.6	9623.1	13996.1	17597.1	19683.7	19656.0	18149.3	13927.7
70°	4381.3	4415.2	4803.6	5745.7	8029.3	12648.3	16905.9	19363.0	19341.6	17593.6	12953.8
72.5°	3089.5	3056.3	3245.0	3983.9	5799.6	10061.3	14434.3	17561.1	17597.1	15738.5	11280.5
75°	1640.1	1703.7	1997.5	2439.1	3287.9	6467.9	11507.9	14533.8	14521.4	13160.5	8916.7
77.5°	873.6	872.3	1074.1	1262.8	1609.7	2972.0	7590.4	10960.5	11021.3	10196.8	6122.3
80°	419.5	435.4	447.9	513.5	802.4	1373.3	3175.2	6356.0	6770.7	6081.6	2908.4
82.5°	335.9	337.3	338.7	324.2	331.8	559.2	1223.4	1839.2	1905.5	1531.6	937.9
85°	248.8	233.6	231.5	196.3	221.9	335.9	617.2	785.2	746.5	726.4	529.4
87.5°	100.2	94.0	91.2	85.7	85.7	126.5	217.7	284.1	283.4	258.5	177.6
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°	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3	5236.3
2.5°	5257.7	5282.6	5340.6	5390.4	5409.1	5454.7	5497.5	5522.4	5539.7	5550.1	5597.1
5°	5312.3	5362.1	5454.7	5524.5	5592.2	5676.5	5731.1	5765.7	5785.0	5796.1	5830.0
7.5°	5395.9	5446.4	5544.5	5651.7	5713.9	5783.0	5818.2	5843.1	5855.5	5852.1	5879.0
10°	5470.6	5520.3	5618.5	5700.7	5736.0	5775.4	5794.0	5799.6	5800.3	5803.0	5830.0
12.5°	5572.2	5602.6	5655.1	5709.0	5701.4	5702.8	5718.7	5711.8	5695.9	5693.1	5711.1
15°	5681.4	5682.1	5686.2	5674.5	5626.8	5606.0	5583.9	5565.3	5521.7	5519.0	5547.3
17.5°	5818.2	5785.7	5710.4	5630.2	5516.9	5438.8	5360.0	5327.5	5274.3	5263.9	5277.7
20°	5994.5	5926.7	5743.6	5544.5	5332.3	5192.7	5097.3	5001.3	4927.3	4909.3	4922.5
22.5°	6247.4	6114.0	5785.7	5453.3	5125.0	4886.5	4701.3	4585.9	4461.5	4397.9	4404.1
25°	6552.9	6344.2	5859.0	5337.9	4881.0	4536.8	4236.1	4004.6	3864.3	3771.0	3795.9
27.5°	6953.1	6666.3	5946.8	5223.8	4577.6	4089.6	3653.5	3339.7	3196.6	3152.4	3123.4
30°	7416.9	7055.4	6039.4	5055.2	4250.0	3536.0	2977.5	2716.3	2552.5	2526.2	2504.1
32.5°	8037.6	7545.4	6212.9	4872.0	3858.8	2982.4	2376.2	2075.6	2038.2	2016.8	2012.0
35°	8837.9	8187.5	6394.7	4634.3	3348.7	2333.4	1797.7	1635.3	1617.3	1640.8	1642.9
37.5°	9687.4	8884.2	6612.4	4366.1	2761.9	1741.0	1375.4	1262.8	1282.8	1356.1	1372.7
40°	10262.4	9343.2	6810.0	4001.8	2036.9	1264.8	1000.8	976.6	1087.2	1181.2	1200.6
42.5°	10814.0	9690.8	6890.2	3520.1	1452.8	900.6	808.0	890.9	1045.7	1148.7	1162.5
45°	11284.6	10095.2	6688.4	2942.3	984.9	752.7	774.1	888.8	1060.9	1175.0	1185.3
47.5°	11732.5	10425.5	6412.6	2318.2	776.9	724.3	773.4	907.5	1094.8	1202.6	1208.8
50°	12160.4	10677.1	5941.9	1763.9	727.8	711.2	779.6	936.5	1113.5	1181.2	1178.4
52.5°	12477.6	10807.1	5440.8	1423.8	708.4	700.8	796.2	973.2	1116.9	1157.7	1154.9
55°	12710.5	10782.2	5111.9	1166.0	692.5	696.7	823.2	1000.8	1150.1	1211.6	1209.5
57.5°	12731.9	10669.5	4737.9	984.9	673.2	696.0	852.2	1039.5	1316.0	1429.3	1394.8
60°	12706.4	10482.9	4364.7	864.6	651.8	700.1	882.6	1155.6	1555.1	1644.3	1620.1
62.5°	12580.6	10135.2	3805.6	785.2	633.1	715.4	905.4	1247.6	1543.4	1553.7	1519.2
65°	12192.1	9670.1	3071.5	705.0	614.4	725.7	924.1	1271.7	1417.6	1384.4	1367.1
67.5°	11423.6	8631.3	2369.3	631.7	590.3	723.6	979.4	1237.2	1369.9	1345.7	1323.6
70°	10331.5	7450.8	1645.0	556.4	549.5	710.5	965.6	1248.9	1347.1	1309.8	1280.0
72.5°	8631.3	5845.2	1046.4	494.9	488.7	679.4	931.0	1241.3	1331.9	1315.3	1274.5
75°	6499.0	4079.9	664.9	427.8	434.7	622.7	875.7	1200.6	1324.3	1272.4	1194.3
77.5°	4091.7	2014.1	517.0	363.6	373.9	537.0	756.8	1048.5	1271.1	1239.9	1139.7
80°	1547.5	817.6	404.3	295.1	304.1	417.5	620.7	862.6	1170.1	1221.3	1178.4
82.5°	712.6	511.5	303.4	237.1	240.5	304.1	463.1	638.6	990.4	1121.1	1228.2
85°	416.1	335.2	202.5	158.3	164.5	179.7	260.6	389.8	642.1	855.0	956.6
87.5°	141.7	116.8	78.8	67.0	65.0	74.0	62.9	127.9	190.8	335.9	383.6
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)