

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: P510449

Luminaire Tested: **CTN-CA10-210-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510449
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-CA10-210-760-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34859 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

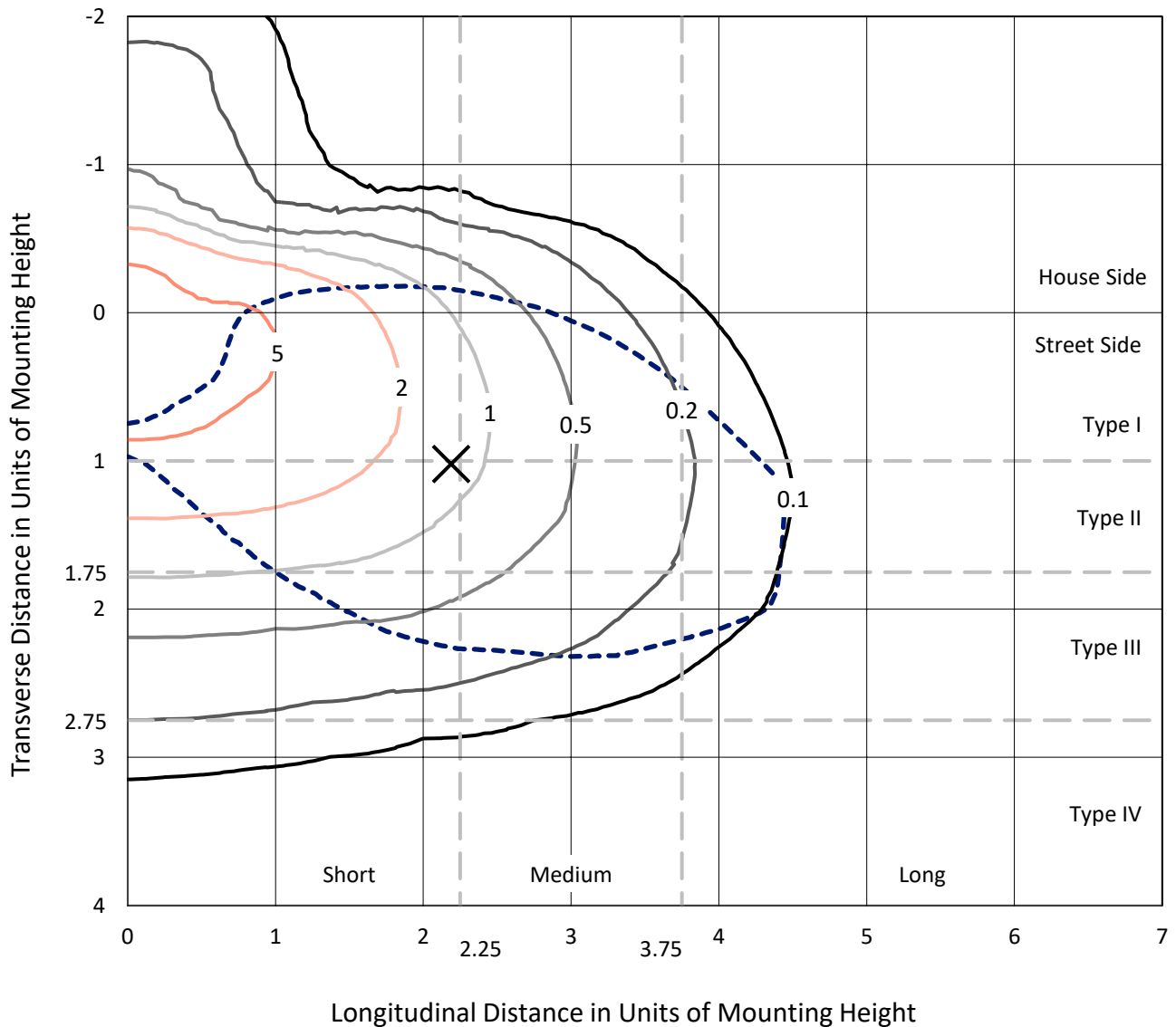
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

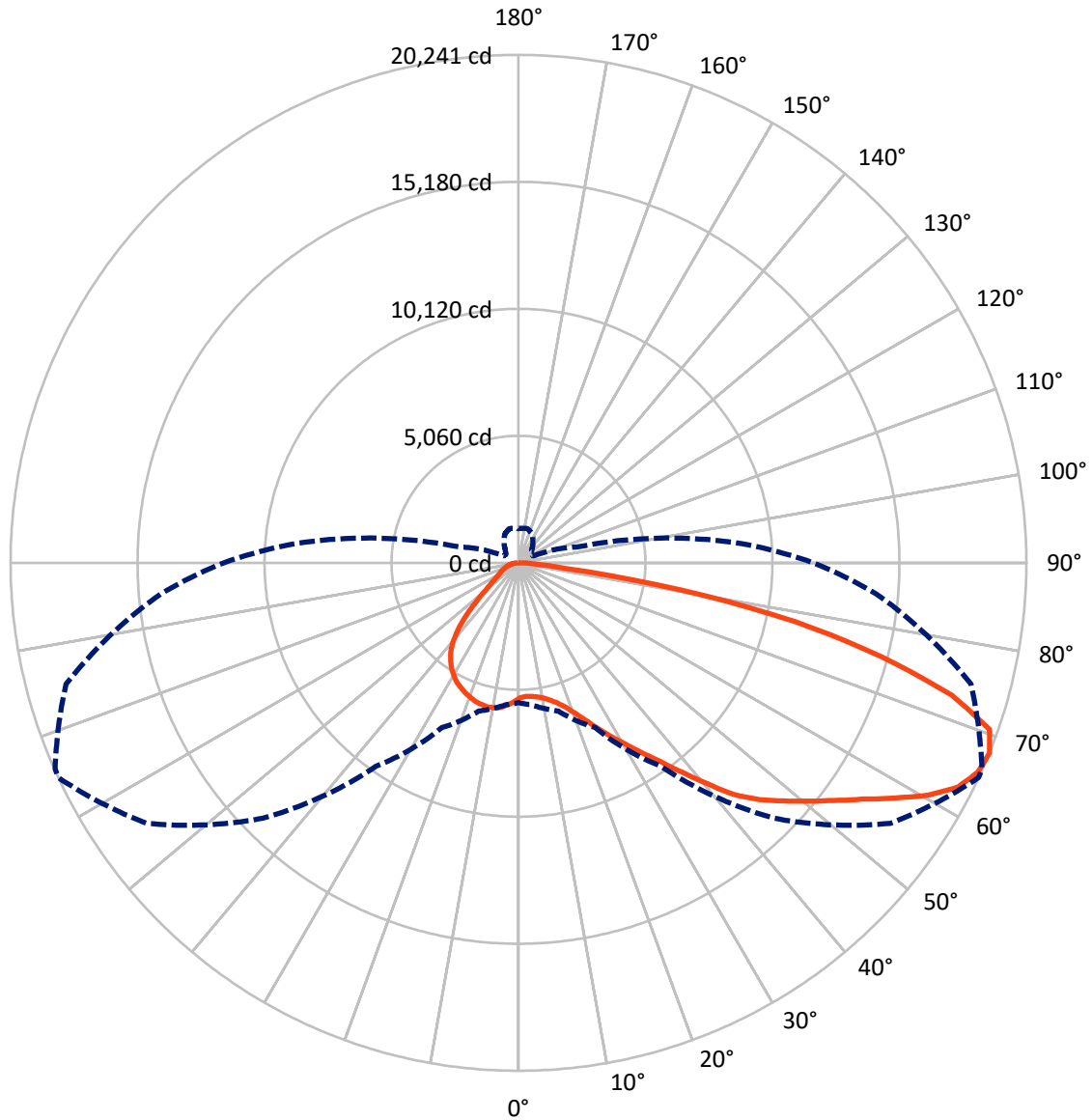
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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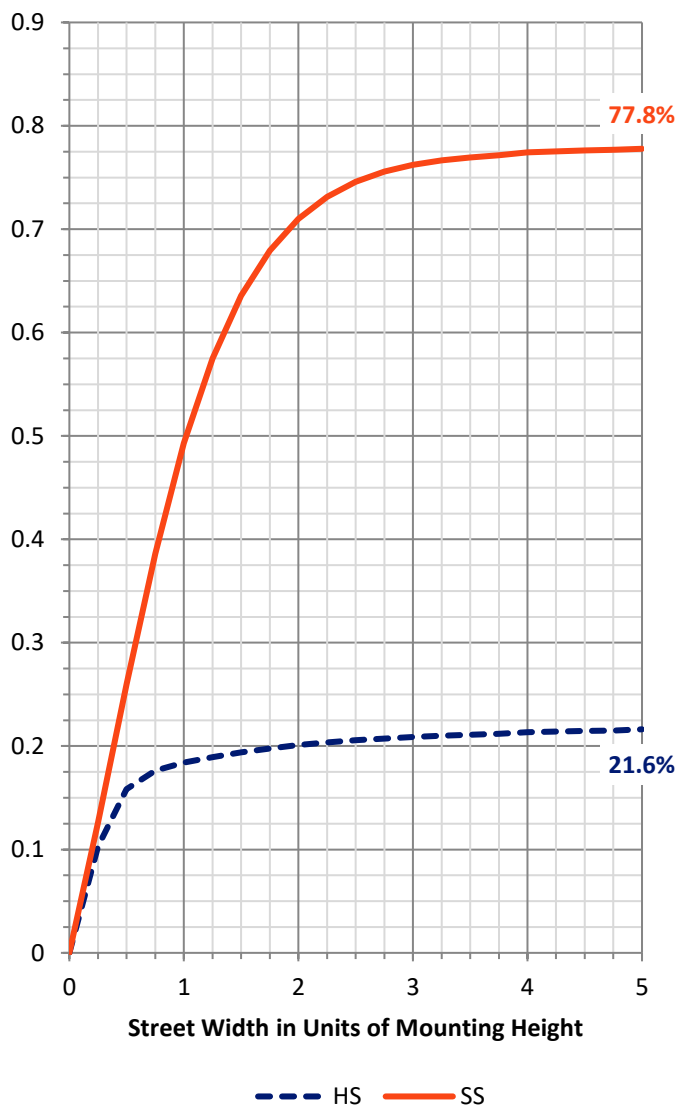
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7699.9	0.0	7699.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27159.1	0.0	27159.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	34859.0	0.0	34859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.5	1.5
10°-20°	1676.1	4.8
20°-30°	2901.6	8.3
30°-40°	4263.6	12.2
40°-50°	5762.8	16.5
50°-60°	7086.5	20.3
60°-70°	7593.6	21.8
70°-80°	4478.6	12.8
80°-90°	559.8	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°	34859.0	100.0
0°-180°	34859.0	100.0

Coefficient of Utilization



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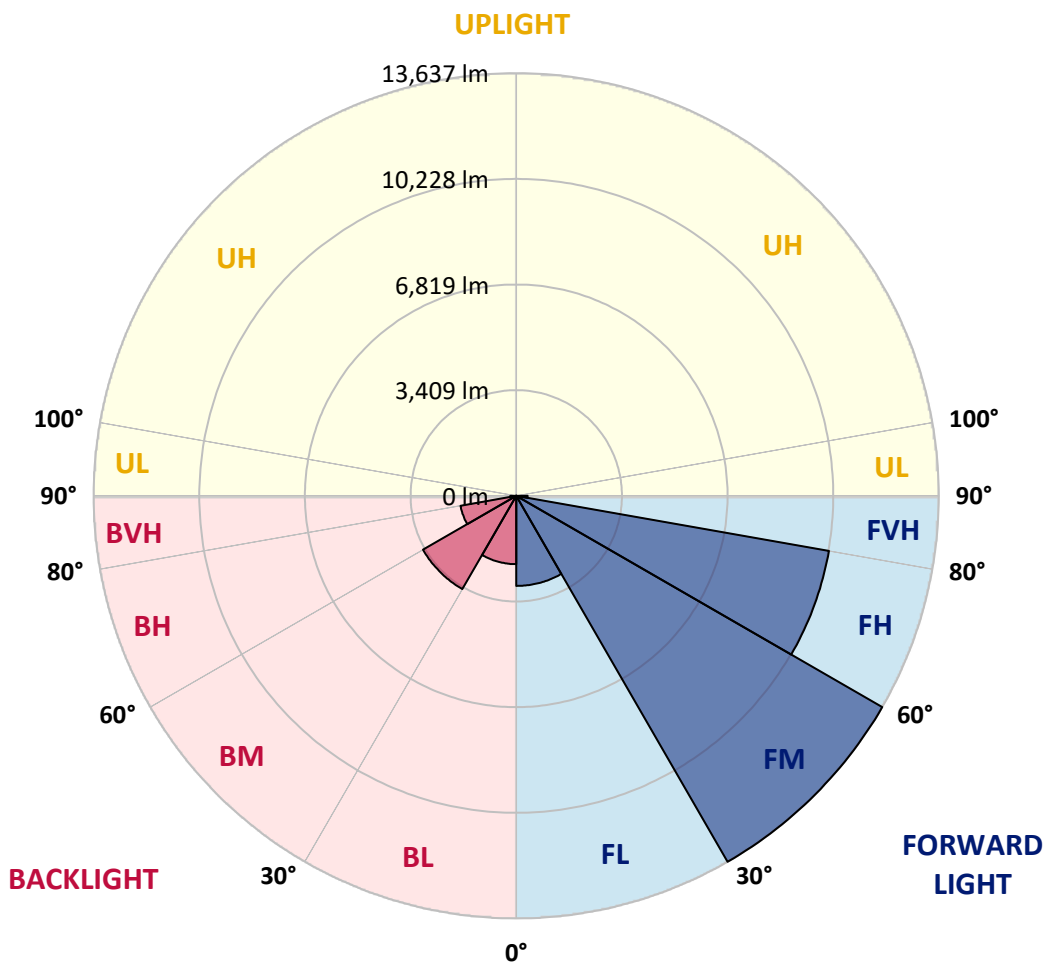
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2908.7	8.3			
FM (30°-60°)	13637.1	39.1			
FH (60°-80°)	10246.2	29.4			G4/12000
FVH (80°-90°)	367.1	1.1			G3/500
BL (0°-30°)	2205.5	6.3	B3/2500		
BM (30°-60°)	3475.7	10.0	B3/5000		
BH (60°-80°)	1826.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	192.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4
2.5°	5282.8	5272.8	5268.5	5282.1	5292.0	5303.4	5319.7	5335.4	5337.5	5358.1	5385.1
5°	5346.7	5338.2	5329.0	5326.8	5323.3	5322.6	5326.8	5344.6	5348.9	5368.8	5427.0
7.5°	5488.9	5480.3	5463.3	5456.9	5437.7	5403.6	5387.2	5396.5	5398.6	5422.8	5495.3
10°	5720.6	5694.3	5673.7	5652.3	5591.9	5537.9	5498.1	5481.1	5477.5	5501.0	5584.8
12.5°	5997.0	5975.0	5952.3	5896.1	5819.4	5722.0	5651.6	5612.5	5609.7	5629.6	5692.8
15°	6289.1	6289.1	6273.5	6206.7	6131.4	5970.0	5861.3	5795.9	5800.2	5815.8	5844.9
17.5°	6666.5	6635.3	6628.1	6552.1	6468.2	6321.1	6148.4	6043.9	6048.9	6056.0	6034.0
20°	7050.3	7041.1	7030.4	6980.0	6903.9	6714.9	6520.8	6383.7	6384.4	6358.8	6260.7
22.5°	7557.8	7527.2	7535.0	7478.2	7375.1	7181.1	6957.9	6795.2	6805.8	6768.9	6591.2
25°	8061.7	8031.1	8014.8	7976.4	7887.5	7703.5	7438.4	7289.1	7276.3	7209.5	6951.5
27.5°	8564.9	8547.1	8560.6	8514.4	8441.9	8236.5	7993.4	7827.8	7836.4	7790.2	7405.7
30°	9085.8	9065.9	9124.9	9050.3	9005.5	8805.8	8572.7	8377.9	8385.0	8402.1	7970.7
32.5°	9478.8	9502.3	9605.3	9596.8	9588.3	9365.8	9120.6	9012.6	9023.3	9083.0	8641.6
35°	9858.4	9860.5	10005.5	10114.9	10161.1	9974.9	9720.5	9716.9	9786.6	9968.5	9576.9
37.5°	10173.2	10166.1	10359.4	10529.3	10655.8	10511.5	10371.5	10589.7	10652.9	11030.3	10518.6
40°	10345.2	10360.1	10608.9	10820.7	11069.4	11001.2	11016.1	11574.0	11729.7	12060.2	11222.9
42.5°	10224.4	10269.9	10657.2	11089.3	11464.6	11555.6	11855.5	12637.3	12703.4	12763.1	11915.9
45°	10021.8	10069.4	10498.7	11196.6	11790.8	12175.3	12690.6	13455.3	13527.8	13461.0	12492.3
47.5°	9810.7	9859.8	10338.1	11153.3	12060.9	12797.9	13433.3	14178.8	14271.2	14064.4	13046.6
50°	9542.8	9618.8	10141.9	11061.6	12279.8	13469.5	14136.2	14923.6	14966.3	14667.8	13466.7
52.5°	9213.0	9296.9	9862.6	10904.5	12451.1	13938.6	14847.6	15731.7	15727.5	15372.8	13947.1
55°	8866.2	8942.2	9525.0	10657.2	12547.0	14299.6	15416.2	16622.3	16673.4	16376.3	14382.1
57.5°	8422.0	8490.9	9126.3	10324.6	12447.5	14606.0	16337.3	17680.5	17706.1	17075.0	14728.2
60°	7833.5	7935.2	8573.4	9901.7	12161.8	14960.6	17352.2	18793.5	18824.8	17762.2	14950.6
62.5°	7187.5	7228.0	7878.3	9250.7	11746.0	15234.2	18055.8	19664.1	19618.6	18299.5	15017.5
65°	6400.0	6432.0	6994.9	8413.5	10973.5	15084.3	18308.1	20111.9	20055.7	18637.1	14812.1
67.5°	5575.6	5674.4	6116.4	7252.2	9895.3	14392.0	18094.9	20240.5	20212.1	18662.7	14321.7
70°	4505.2	4540.1	4939.5	5908.2	8256.4	13006.1	17384.1	19910.7	19888.7	18091.3	13320.3
72.5°	3176.9	3142.8	3336.8	4096.6	5963.6	10345.9	14842.6	18057.9	18094.9	16183.7	11599.6
75°	1686.5	1751.9	2054.0	2508.1	3380.9	6650.9	11833.4	14945.0	14932.2	13532.8	9169.0
77.5°	898.3	896.9	1104.5	1298.5	1655.3	3056.1	7805.1	11270.6	11333.1	10485.2	6295.5
80°	431.4	447.8	460.5	528.1	825.1	1412.2	3265.0	6535.8	6962.2	6253.6	2990.7
82.5°	345.4	346.8	348.3	333.3	341.1	575.0	1258.0	1891.2	1959.4	1574.9	964.4
85°	255.9	240.2	238.1	201.8	228.1	345.4	634.7	807.4	767.6	747.0	544.4
87.5°	103.1	96.7	93.8	88.1	88.1	130.1	223.9	292.1	291.4	265.8	182.7
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°	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4	5384.4
2.5°	5406.4	5432.0	5491.7	5542.9	5562.1	5609.0	5653.0	5678.6	5696.4	5707.1	5755.4
5°	5462.6	5513.7	5609.0	5680.8	5750.4	5837.1	5893.3	5928.8	5948.7	5960.1	5994.9
7.5°	5548.6	5600.5	5701.4	5811.5	5875.5	5946.6	5982.8	6008.4	6021.2	6017.6	6045.4
10°	5625.3	5676.5	5777.4	5862.0	5898.2	5938.8	5957.9	5963.6	5964.3	5967.2	5994.9
12.5°	5729.8	5761.1	5815.1	5870.5	5862.7	5864.1	5880.5	5873.4	5857.0	5854.2	5872.7
15°	5842.1	5842.8	5847.1	5835.0	5785.9	5764.6	5741.9	5722.7	5677.9	5675.1	5704.2
17.5°	5982.8	5949.4	5871.9	5789.5	5672.9	5592.6	5511.6	5478.2	5423.5	5412.8	5427.0
20°	6164.1	6094.4	5906.1	5701.4	5483.2	5339.6	5241.5	5142.8	5066.7	5048.2	5061.7
22.5°	6424.2	6287.0	5949.4	5607.6	5270.0	5024.8	4834.3	4715.6	4587.7	4522.3	4528.7
25°	6738.3	6523.7	6024.8	5488.9	5019.1	4665.1	4356.0	4117.9	3973.6	3877.7	3903.3
27.5°	7149.8	6854.9	6115.0	5371.6	4707.1	4205.3	3756.9	3434.2	3287.1	3241.6	3211.7
30°	7626.7	7255.0	6210.2	5198.2	4370.2	3636.0	3061.8	2793.1	2624.7	2597.7	2574.9
32.5°	8264.9	7758.9	6388.6	5009.8	3967.9	3066.7	2443.4	2134.3	2095.9	2073.9	2068.9
35°	9087.9	8419.2	6575.6	4765.4	3443.4	2399.4	1848.6	1681.6	1663.1	1687.2	1689.4
37.5°	9961.4	9135.6	6799.4	4489.6	2840.0	1790.3	1414.3	1298.5	1319.1	1394.4	1411.5
40°	10552.7	9607.5	7002.7	4115.1	2094.5	1300.6	1029.1	1004.2	1118.0	1214.6	1234.5
42.5°	11119.9	9965.0	7085.1	3619.7	1493.9	926.1	830.8	916.1	1075.3	1181.2	1195.4
45°	11603.9	10380.7	6877.6	3025.5	1012.8	774.0	796.0	914.0	1091.0	1208.2	1218.9
47.5°	12064.4	10720.5	6594.0	2383.7	798.8	744.8	795.3	933.2	1125.8	1236.6	1243.0
50°	12504.4	10979.2	6110.0	1813.8	748.4	731.3	801.7	963.0	1145.0	1214.6	1211.8
52.5°	12830.6	11112.8	5594.8	1464.1	728.5	720.7	818.7	1000.7	1148.5	1190.5	1187.6
55°	13070.1	11087.2	5256.5	1199.0	712.1	716.4	846.5	1029.1	1182.6	1245.9	1243.8
57.5°	13092.1	10971.3	4872.0	1012.8	692.2	715.7	876.3	1068.9	1353.2	1469.8	1434.2
60°	13065.8	10779.4	4488.2	889.1	670.2	720.0	907.6	1188.3	1599.1	1690.8	1665.9
62.5°	12936.5	10422.0	3913.2	807.4	651.0	735.6	931.0	1282.8	1587.0	1597.7	1562.2
65°	12537.1	9943.6	3158.4	724.9	631.8	746.3	950.2	1307.7	1457.7	1423.6	1405.8
67.5°	11746.7	8875.4	2436.3	649.6	607.0	744.1	1007.1	1272.2	1408.6	1383.8	1361.0
70°	10623.8	7661.5	1691.5	572.1	565.0	730.6	992.9	1284.3	1385.2	1346.8	1316.2
72.5°	8875.4	6010.5	1076.0	508.9	502.5	698.6	957.3	1276.4	1369.6	1352.5	1310.6
75°	6682.9	4195.4	683.7	439.9	447.0	640.4	900.5	1234.5	1361.7	1308.4	1228.1
77.5°	4207.4	2071.0	531.6	373.8	384.5	552.2	778.2	1078.2	1307.0	1275.0	1172.0
80°	1591.3	840.8	415.8	303.5	312.7	429.3	638.2	887.0	1203.2	1255.8	1211.8
82.5°	732.7	525.9	312.0	243.8	247.3	312.7	476.2	656.7	1018.5	1152.8	1262.9
85°	427.9	344.7	208.2	162.8	169.2	184.8	267.9	400.8	660.3	879.2	983.6
87.5°	145.7	120.1	81.0	68.9	66.8	76.0	64.7	131.5	196.2	345.4	394.4
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)