

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: P510689

Luminaire Tested: **CTN-CA6-230-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510689
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-CA6-230-760-U-T3
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: 34413 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

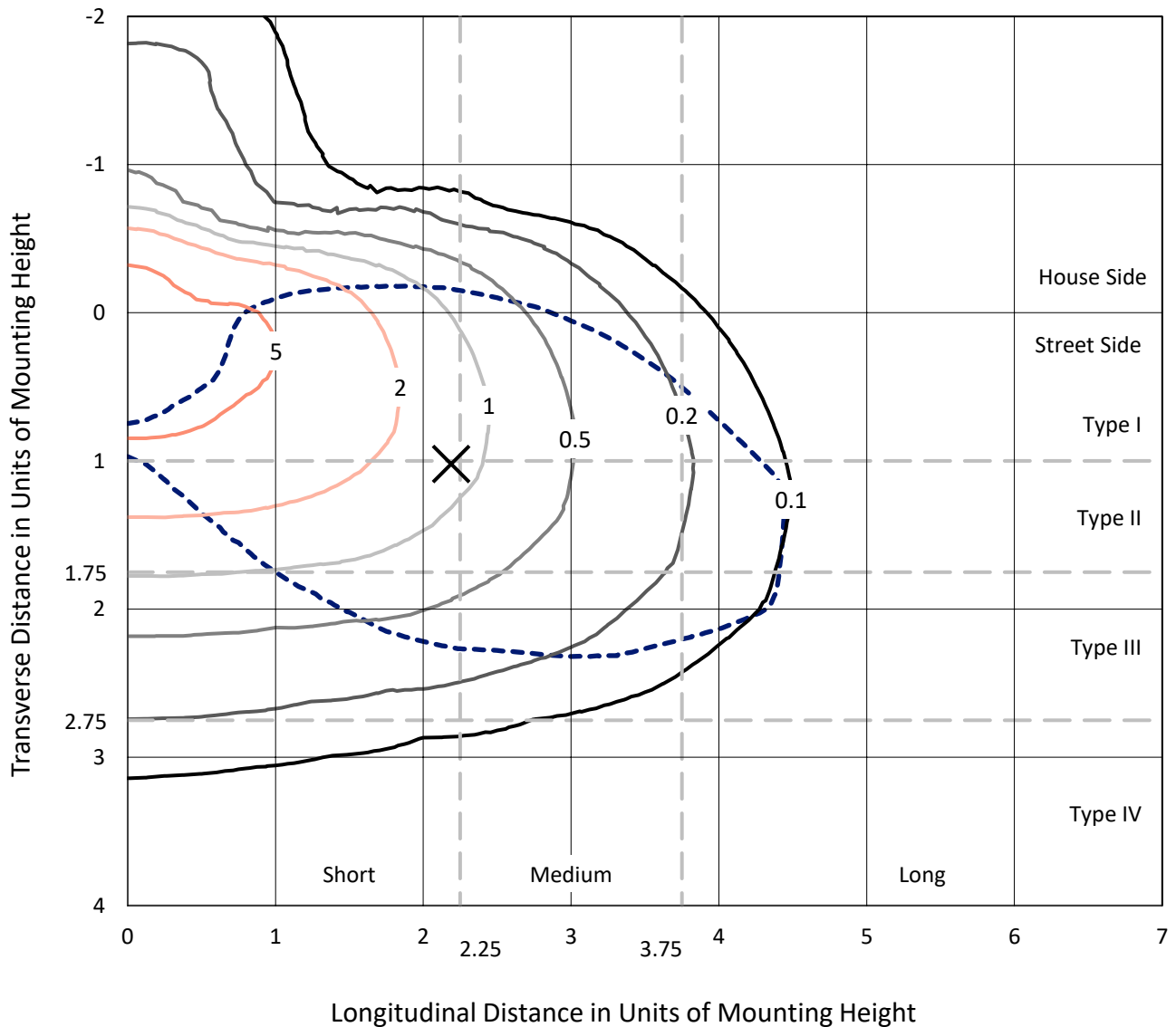
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

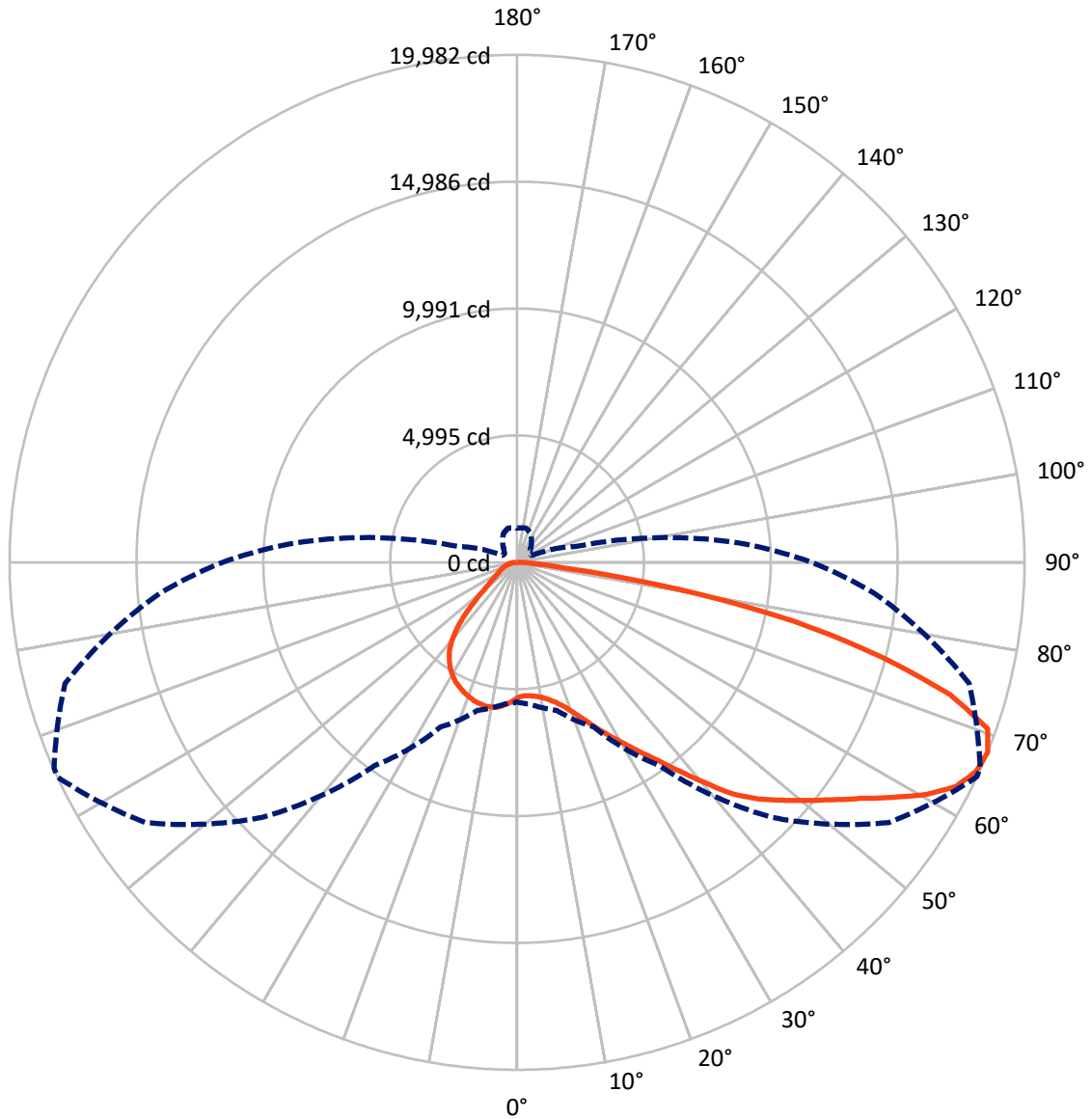
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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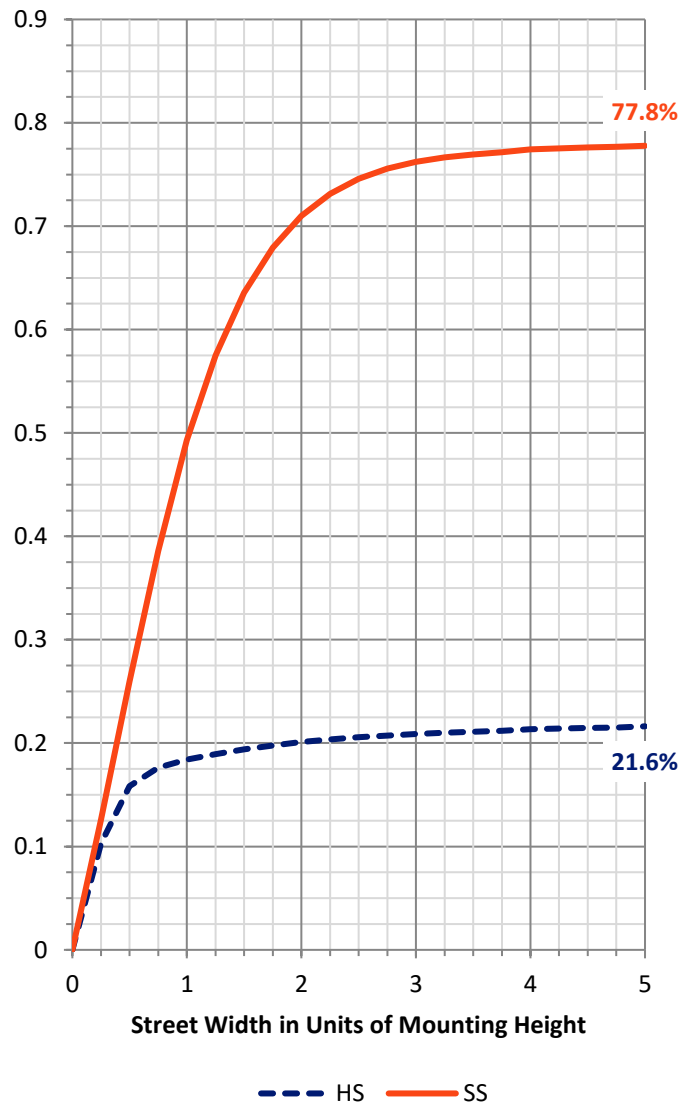
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7601.4	0.0	7601.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26811.6	0.0	26811.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	34413.0	0.0	34413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	1.5
10°-20°	1654.7	4.8
20°-30°	2864.5	8.3
30°-40°	4209.0	12.2
40°-50°	5689.0	16.5
50°-60°	6995.8	20.3
60°-70°	7496.4	21.8
70°-80°	4421.3	12.8
80°-90°	552.7	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°	34413.0	100.0
0°-180°	34413.0	100.0

Coefficient of Utilization



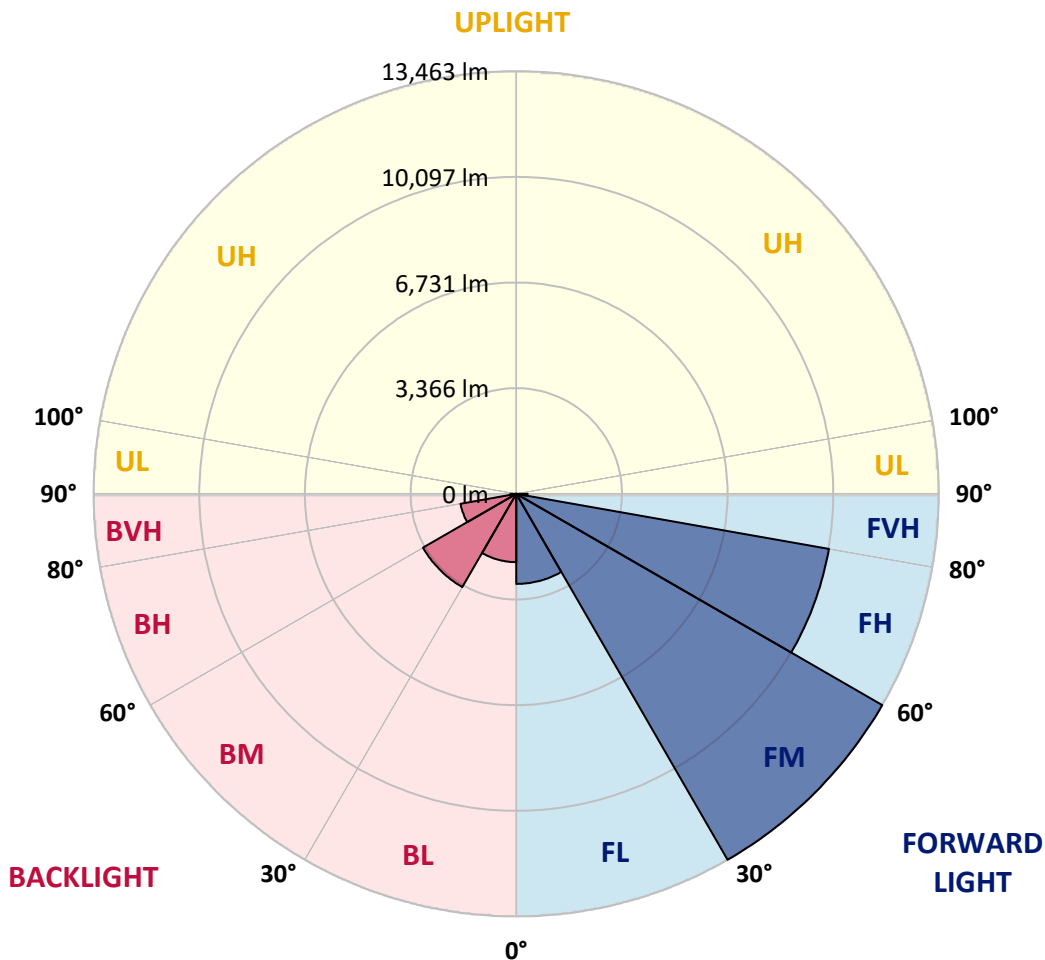
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.5	8.3			
FM (30°-60°)	13462.6	39.1			
FH (60°-80°)	10115.1	29.4			G4/12000
FVH (80°-90°)	362.4	1.1			G3/500
BL (0°-30°)	2177.2	6.3	B3/2500		
BM (30°-60°)	3431.2	10.0	B3/5000		
BH (60°-80°)	1802.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	190.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5
2.5°	5215.2	5205.3	5201.1	5214.5	5224.3	5235.5	5251.7	5267.1	5269.2	5289.5	5316.2
5°	5278.3	5269.9	5260.8	5258.7	5255.2	5254.5	5258.7	5276.2	5280.4	5300.1	5357.6
7.5°	5418.6	5410.2	5393.4	5387.1	5368.1	5334.4	5318.3	5327.4	5329.5	5353.4	5425.0
10°	5647.4	5621.4	5601.1	5580.0	5520.4	5467.1	5427.8	5410.9	5407.4	5430.6	5513.4
12.5°	5920.3	5898.6	5876.1	5820.7	5744.9	5648.8	5579.3	5540.7	5537.9	5557.6	5620.0
15°	6208.7	6208.7	6193.2	6127.3	6052.9	5893.6	5786.3	5721.7	5726.0	5741.4	5770.2
17.5°	6581.2	6550.4	6543.3	6468.3	6385.5	6240.2	6069.7	5966.6	5971.5	5978.5	5956.8
20°	6960.1	6951.0	6940.5	6890.6	6815.6	6628.9	6437.4	6302.0	6302.7	6277.4	6180.6
22.5°	7461.1	7430.9	7438.6	7382.5	7280.8	7089.2	6868.9	6708.2	6718.8	6682.3	6506.9
25°	7958.5	7928.4	7912.2	7874.3	7786.6	7604.9	7343.2	7195.9	7183.2	7117.3	6862.6
27.5°	8455.3	8437.7	8451.1	8405.5	8333.9	8131.1	7891.2	7727.7	7736.1	7690.5	7310.9
30°	8969.6	8949.9	9008.2	8934.5	8890.3	8693.1	8463.0	8270.7	8277.8	8294.6	7868.7
32.5°	9357.6	9380.7	9482.4	9474.0	9465.6	9246.0	9003.9	8897.3	8907.8	8966.8	8531.0
35°	9732.2	9734.3	9877.5	9985.5	10031.1	9847.3	9596.1	9592.6	9661.4	9841.0	9454.4
37.5°	10043.0	10036.0	10226.9	10394.6	10519.4	10377.0	10238.8	10454.2	10516.6	10889.2	10384.0
40°	10212.8	10227.6	10473.1	10682.2	10927.8	10860.4	10875.2	11425.9	11579.6	11905.9	11079.3
42.5°	10093.6	10138.5	10520.9	10947.4	11317.9	11407.7	11703.8	12475.6	12540.8	12599.8	11763.4
45°	9893.6	9940.6	10364.4	11053.4	11639.9	12019.5	12528.2	13283.1	13354.7	13288.8	12332.4
47.5°	9685.2	9733.6	10205.8	11010.6	11906.6	12634.1	13261.4	13997.4	14088.6	13884.4	12879.7
50°	9420.7	9495.8	10012.2	10920.1	12122.7	13297.2	13955.3	14732.7	14774.8	14480.1	13294.4
52.5°	9095.2	9177.9	9736.4	10765.0	12291.8	13760.3	14657.6	15530.4	15526.2	15176.1	13768.7
55°	8752.8	8827.8	9403.2	10520.9	12386.5	14116.7	15218.9	16409.6	16460.1	16166.8	14198.1
57.5°	8314.2	8382.3	9009.6	10192.5	12288.2	14419.1	16128.2	17454.3	17479.6	16856.5	14539.8
60°	7733.3	7833.6	8463.7	9775.0	12006.2	14769.2	17130.2	18553.0	18583.9	17535.0	14759.4
62.5°	7095.5	7135.5	7777.5	9132.3	11595.7	15039.3	17824.8	19412.5	19367.6	18065.4	14825.3
65°	6318.1	6349.7	6905.4	8305.8	10833.1	14891.3	18073.8	19854.6	19799.1	18398.7	14622.5
67.5°	5504.2	5601.8	6038.2	7159.4	9768.7	14207.9	17863.3	19981.6	19953.5	18423.9	14138.4
70°	4447.6	4482.0	4876.3	5832.6	8150.8	12839.7	17161.7	19656.0	19634.2	17859.8	13149.8
72.5°	3136.3	3102.6	3294.1	4044.2	5887.3	10213.5	14652.7	17826.9	17863.3	15976.7	11451.2
75°	1665.0	1729.5	2027.7	2476.0	3337.6	6565.8	11682.0	14753.8	14741.1	13359.6	9051.7
77.5°	886.9	885.4	1090.3	1281.9	1634.1	3017.0	7705.2	11126.4	11188.1	10351.1	6215.0
80°	425.9	442.0	454.7	521.3	814.6	1394.1	3223.3	6452.1	6873.1	6173.6	2952.4
82.5°	341.0	342.4	343.8	329.1	336.8	567.6	1241.9	1867.0	1934.4	1554.8	952.1
85°	252.6	237.1	235.0	199.3	225.2	341.0	626.6	797.0	757.8	737.4	537.4
87.5°	101.7	95.4	92.6	87.0	87.0	128.4	221.0	288.4	287.7	262.4	180.3
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°	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5
2.5°	5337.3	5362.5	5421.4	5472.0	5490.9	5537.2	5580.7	5606.0	5623.5	5634.0	5681.8
5°	5392.7	5443.2	5537.2	5608.1	5676.8	5762.4	5817.9	5852.9	5872.6	5883.8	5918.2
7.5°	5477.6	5528.8	5628.4	5737.2	5800.3	5870.5	5906.3	5931.5	5944.2	5940.7	5968.0
10°	5553.4	5603.9	5703.5	5787.0	5822.8	5862.8	5881.7	5887.3	5888.0	5890.8	5918.2
12.5°	5656.5	5687.4	5740.7	5795.4	5787.7	5789.1	5805.2	5798.2	5782.1	5779.3	5797.5
15°	5767.3	5768.1	5772.3	5760.3	5711.9	5690.9	5668.4	5649.5	5605.3	5602.5	5631.2
17.5°	5906.3	5873.3	5796.8	5715.4	5600.4	5521.1	5441.1	5408.1	5354.1	5343.6	5357.6
20°	6085.2	6016.4	5830.5	5628.4	5413.0	5271.3	5174.5	5077.0	5001.9	4983.6	4997.0
22.5°	6342.0	6206.6	5873.3	5535.8	5202.5	4960.5	4772.4	4655.3	4529.0	4464.4	4470.7
25°	6652.1	6440.2	5947.7	5418.6	4954.9	4605.5	4300.3	4065.2	3922.8	3828.1	3853.3
27.5°	7058.3	6767.2	6036.8	5302.9	4646.9	4151.5	3708.8	3390.2	3245.0	3200.1	3170.6
30°	7529.1	7162.2	6130.8	5131.7	4314.3	3589.5	3022.6	2757.4	2591.1	2564.4	2542.0
32.5°	8159.2	7659.6	6306.9	4945.7	3917.2	3027.5	2412.2	2107.0	2069.1	2047.3	2042.4
35°	8971.7	8311.4	6491.4	4704.4	3399.4	2368.7	1824.9	1660.0	1641.8	1665.7	1667.8
37.5°	9834.0	9018.7	6712.4	4432.2	2803.7	1767.4	1396.2	1281.9	1302.2	1376.6	1393.4
40°	10417.7	9484.6	6913.1	4062.4	2067.7	1284.0	1016.0	991.4	1103.7	1199.1	1218.7
42.5°	10977.6	9837.5	6994.5	3573.4	1474.8	914.2	820.2	904.4	1061.6	1166.1	1180.1
45°	11455.4	10247.9	6789.6	2986.8	999.8	764.1	785.8	902.3	1077.0	1192.8	1203.3
47.5°	11910.1	10583.3	6509.7	2353.2	788.6	735.3	785.1	921.2	1111.4	1220.8	1227.1
50°	12344.4	10838.7	6031.9	1790.5	738.8	722.0	791.4	950.7	1130.3	1199.1	1196.3
52.5°	12666.4	10970.6	5523.2	1445.3	719.2	711.4	808.3	987.9	1133.8	1175.2	1172.4
55°	12902.9	10945.3	5189.2	1183.6	703.0	707.2	835.6	1016.0	1167.5	1229.9	1227.8
57.5°	12924.6	10831.0	4809.6	999.8	683.4	706.5	865.1	1055.2	1335.9	1451.0	1415.9
60°	12898.7	10641.5	4430.8	877.7	661.6	710.7	896.0	1173.1	1578.7	1669.2	1644.6
62.5°	12771.0	10288.6	3863.1	797.0	642.7	726.2	919.1	1266.4	1566.7	1577.3	1542.2
65°	12376.6	9816.4	3118.0	715.7	623.7	736.7	938.1	1291.0	1439.0	1405.4	1387.8
67.5°	11596.4	8761.9	2405.2	641.3	599.2	734.6	994.2	1255.9	1390.6	1366.1	1343.6
70°	10487.9	7563.5	1669.9	564.8	557.8	721.3	980.2	1267.8	1367.5	1329.6	1299.4
72.5°	8761.9	5933.6	1062.3	502.4	496.0	689.7	945.1	1260.1	1352.0	1335.2	1293.8
75°	6597.4	4141.7	675.0	434.3	441.3	632.2	889.0	1218.7	1344.3	1291.7	1212.4
77.5°	4153.6	2044.5	524.8	369.1	379.6	545.2	768.3	1064.4	1290.3	1258.7	1157.0
80°	1570.9	830.0	410.5	299.6	308.7	423.8	630.1	875.6	1187.8	1239.8	1196.3
82.5°	723.4	519.2	308.0	240.7	244.2	308.7	470.1	648.3	1005.4	1138.0	1246.8
85°	422.4	340.3	205.6	160.7	167.0	182.4	264.5	395.7	651.8	867.9	971.0
87.5°	143.8	118.6	80.0	68.1	66.0	75.1	63.8	129.8	193.6	341.0	389.4
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)