

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: P510719

Luminaire Tested: **CTN-CA8-230-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510719
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-CA8-230-730-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35268 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

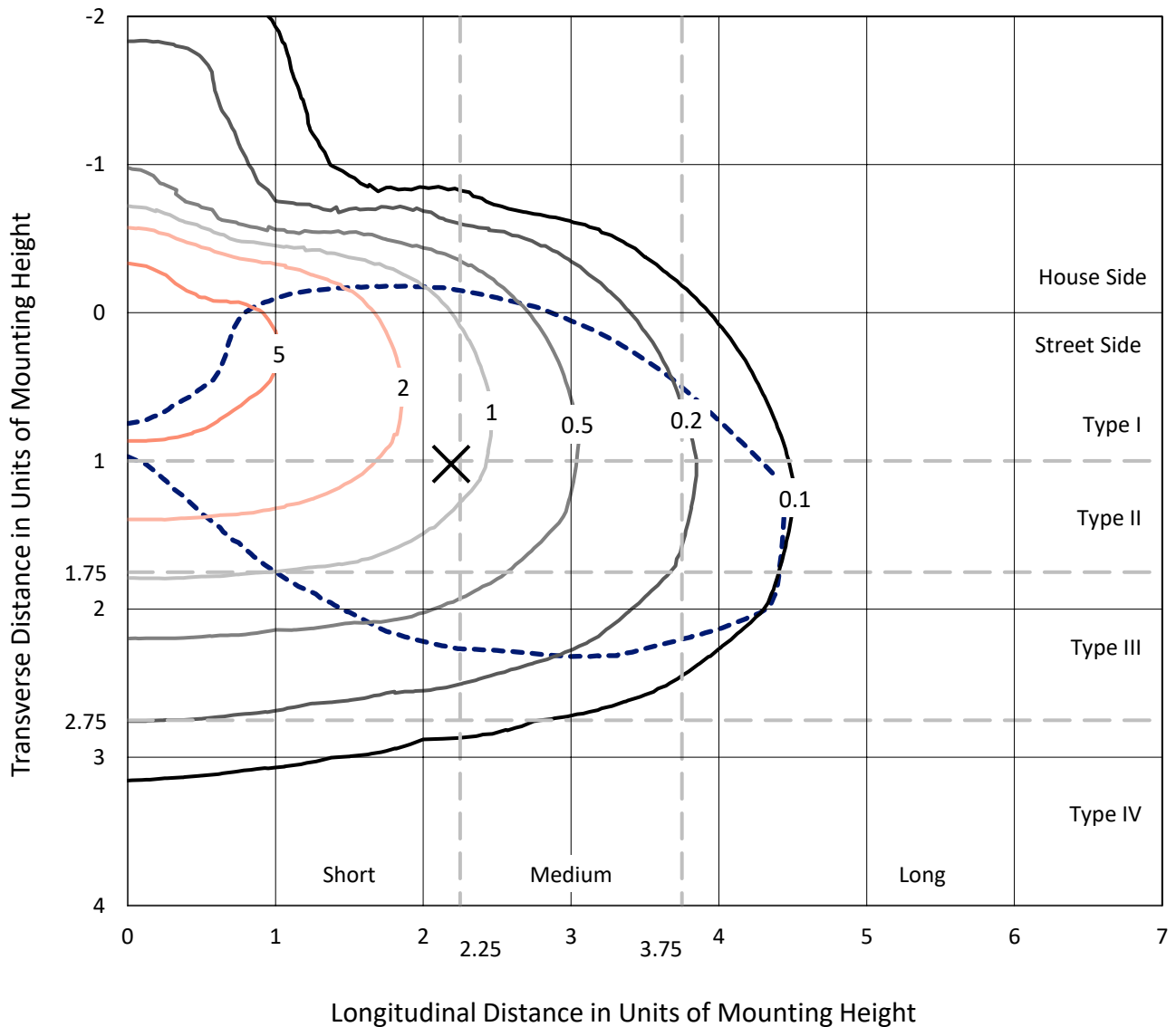
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

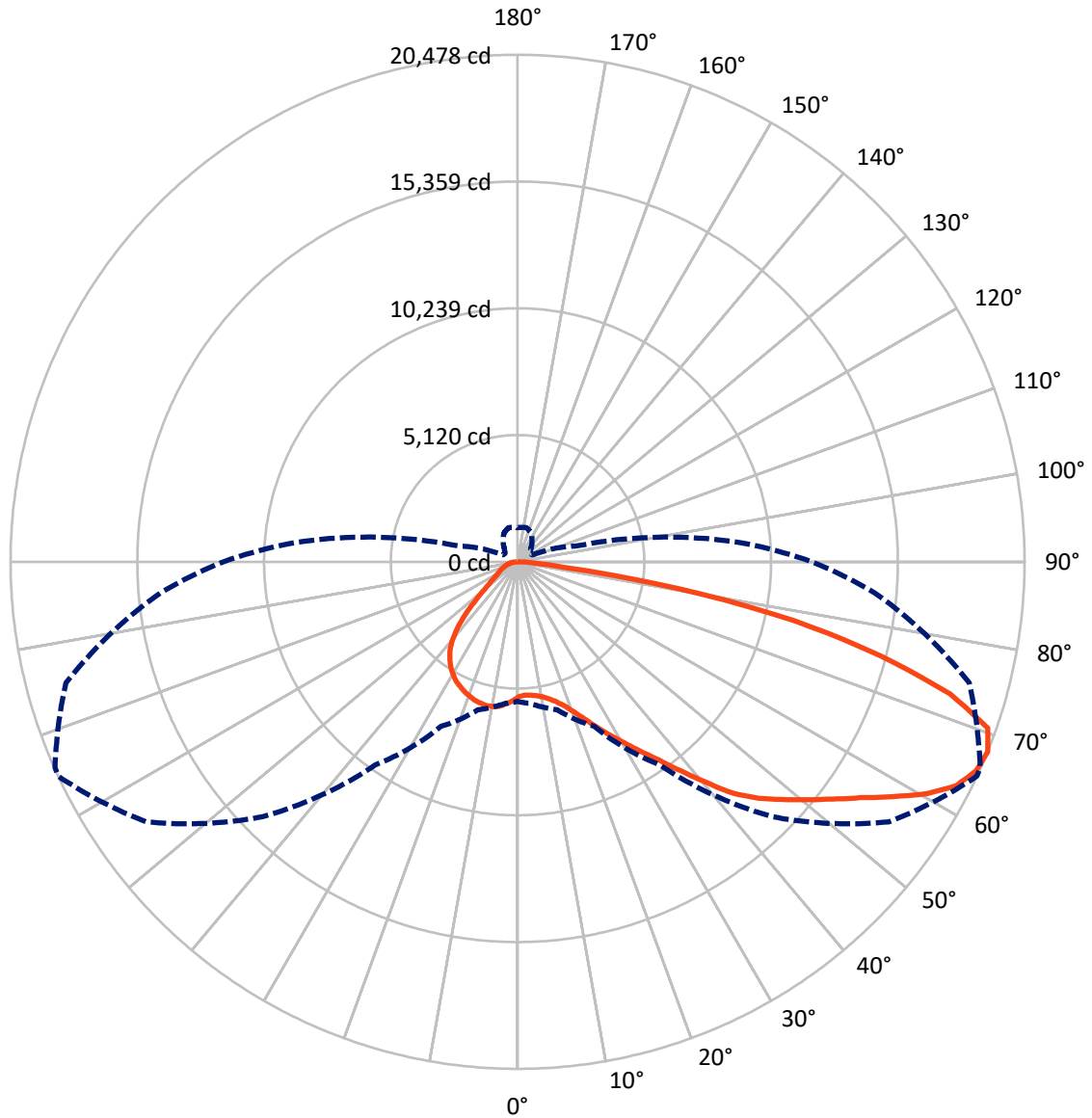
✕ Max cd
 - - - 1/2 Max cd



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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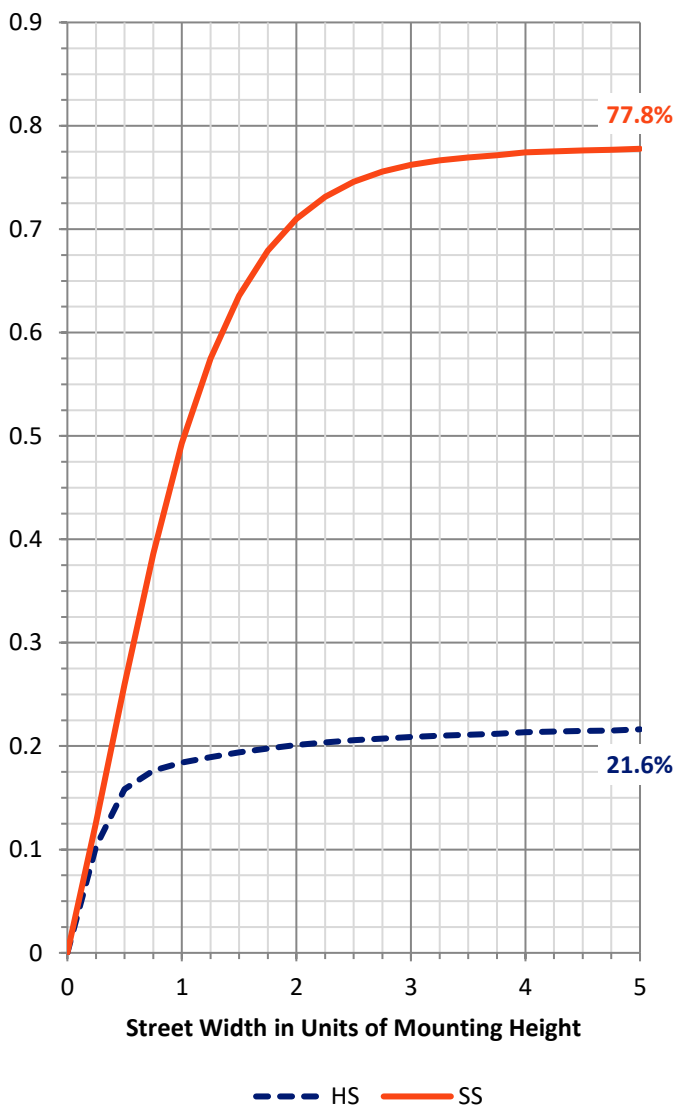
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7790.3	0.0	7790.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27477.7	0.0	27477.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	35268.0	0.0	35268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	1.5
10°-20°	1695.8	4.8
20°-30°	2935.6	8.3
30°-40°	4313.6	12.2
40°-50°	5830.4	16.5
50°-60°	7169.6	20.3
60°-70°	7682.7	21.8
70°-80°	4531.2	12.8
80°-90°	566.4	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°	35268.0	100.0
0°-180°	35268.0	100.0

Coefficient of Utilization

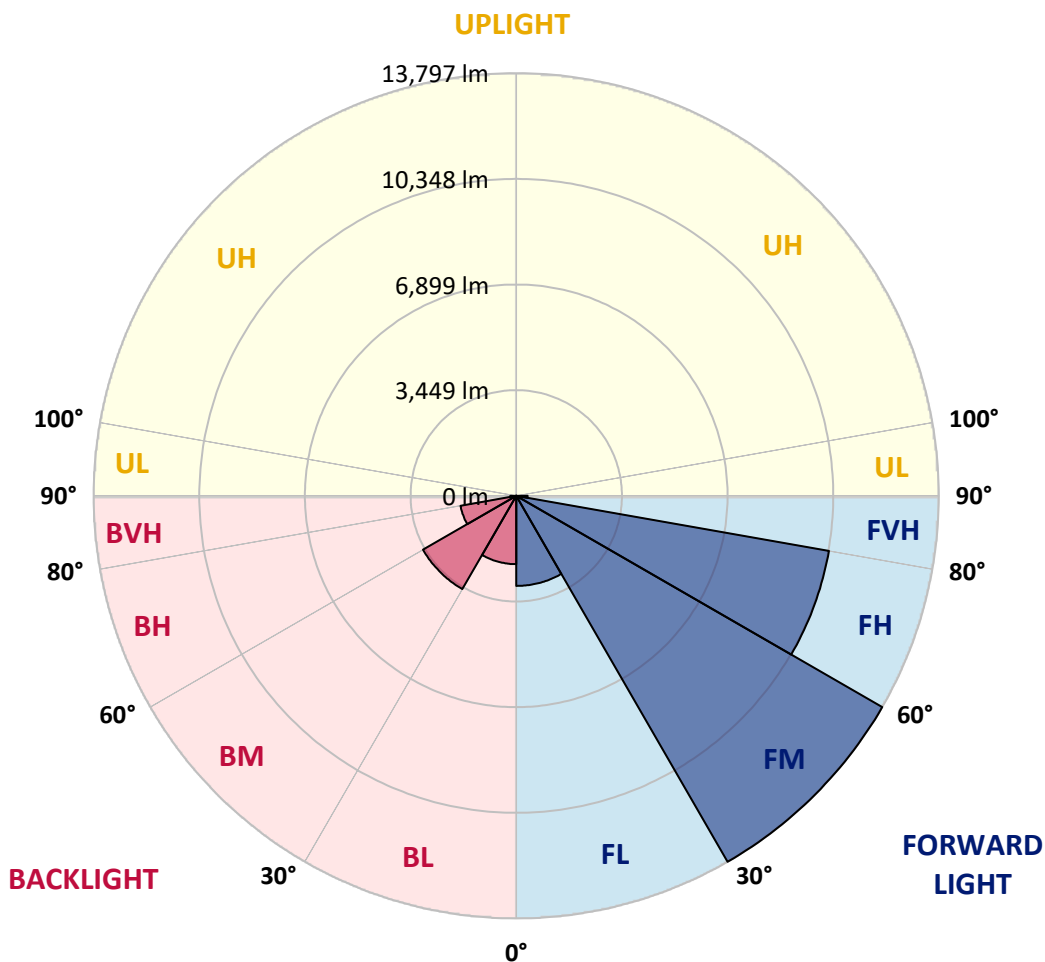


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.8	8.3			
FM (30°-60°)	13797.1	39.1			
FH (60°-80°)	10366.4	29.4			G4/12000
FVH (80°-90°)	371.4	1.1			G3/500
BL (0°-30°)	2231.3	6.3	B3/2500		
BM (30°-60°)	3516.5	10.0	B3/5000		
BH (60°-80°)	1847.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	195.0	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°	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6
2.5°	5344.7	5334.7	5330.4	5344.0	5354.1	5365.6	5382.1	5398.0	5400.1	5421.0	5448.3
5°	5409.5	5400.8	5391.5	5389.3	5385.7	5385.0	5389.3	5407.3	5411.6	5431.7	5490.7
7.5°	5553.3	5544.6	5527.4	5520.9	5501.5	5467.0	5450.4	5459.8	5462.0	5486.4	5559.7
10°	5787.7	5761.1	5740.2	5718.7	5657.5	5602.9	5562.6	5545.4	5541.8	5565.5	5650.3
12.5°	6067.4	6045.1	6022.1	5965.3	5887.6	5789.1	5717.9	5678.4	5675.5	5695.6	5759.6
15°	6362.9	6362.9	6347.1	6279.5	6203.3	6040.1	5930.1	5863.9	5868.2	5884.0	5913.5
17.5°	6744.7	6713.1	6705.9	6629.0	6544.1	6395.3	6220.6	6114.9	6119.9	6127.1	6104.8
20°	7133.0	7123.7	7112.9	7061.8	6984.9	6793.6	6597.3	6458.6	6459.3	6433.4	6334.2
22.5°	7646.4	7615.5	7623.4	7565.9	7461.6	7265.3	7039.6	6874.9	6885.7	6848.3	6668.5
25°	8156.3	8125.3	8108.8	8070.0	7980.1	7793.8	7525.6	7374.6	7361.7	7294.1	7033.1
27.5°	8665.3	8647.4	8661.0	8614.3	8540.9	8333.1	8087.2	7919.7	7928.3	7881.6	7492.6
30°	9192.4	9172.3	9232.0	9156.5	9111.2	8909.1	8673.3	8476.2	8483.4	8500.7	8064.2
32.5°	9590.1	9613.8	9718.0	9709.4	9700.8	9475.7	9227.6	9118.4	9129.1	9189.5	8743.0
35°	9974.0	9976.2	10122.9	10233.6	10280.3	10092.0	9834.5	9830.9	9901.4	10085.5	9689.3
37.5°	10292.6	10285.4	10481.0	10652.8	10780.8	10634.8	10493.2	10713.9	10777.9	11159.8	10642.0
40°	10466.6	10481.7	10733.4	10947.6	11199.3	11130.3	11145.4	11709.8	11867.3	12201.7	11354.6
42.5°	10344.3	10390.4	10782.2	11219.4	11599.1	11691.1	11994.6	12785.5	12852.4	12912.8	12055.7
45°	10139.4	10187.6	10621.9	11328.0	11929.1	12318.2	12839.5	13613.2	13686.5	13618.9	12638.8
47.5°	9925.9	9975.5	10459.4	11284.1	12202.4	12948.0	13590.9	14345.2	14438.6	14229.4	13199.7
50°	9654.8	9731.7	10260.9	11191.4	12423.9	13627.6	14302.0	15098.7	15141.9	14839.9	13624.7
52.5°	9321.1	9406.0	9978.3	11032.5	12597.1	14102.1	15021.8	15916.3	15912.0	15553.2	14110.8
55°	8970.2	9047.2	9636.8	10782.2	12694.2	14467.4	15597.0	16817.3	16869.1	16568.5	14550.8
57.5°	8520.8	8590.6	9233.4	10445.7	12593.5	14777.3	16528.9	17888.0	17913.8	17275.3	14901.0
60°	7925.4	8028.3	8674.0	10017.9	12304.5	15136.1	17555.8	19014.0	19045.6	17970.7	15126.1
62.5°	7271.8	7312.8	7970.7	9359.2	11883.8	15413.0	18267.6	19894.8	19848.8	18514.3	15193.7
65°	6475.1	6507.5	7077.0	8512.2	11102.2	15261.2	18522.9	20347.8	20291.0	18855.8	14985.8
67.5°	5641.0	5740.9	6188.2	7337.2	10011.4	14560.9	18307.2	20478.0	20449.2	18881.7	14489.7
70°	4558.1	4593.3	4997.4	5977.5	8353.3	13158.7	17588.1	20144.4	20122.1	18303.6	13476.5
72.5°	3214.2	3179.7	3376.0	4144.6	6033.6	10467.3	15016.8	18269.8	18307.2	16373.6	11735.7
75°	1706.3	1772.5	2078.1	2537.5	3420.5	6728.9	11972.3	15120.3	15107.4	13691.5	9276.5
77.5°	908.9	907.4	1117.4	1313.7	1674.7	3091.9	7896.7	11402.8	11466.1	10608.2	6369.4
80°	436.5	453.0	465.9	534.3	834.8	1428.8	3303.3	6612.4	7043.9	6327.0	3025.8
82.5°	349.5	350.9	352.3	337.2	345.1	581.7	1272.7	1913.4	1982.4	1593.4	975.8
85°	258.9	243.0	240.9	204.2	230.8	349.5	642.1	816.8	776.6	755.7	550.8
87.5°	104.3	97.8	94.9	89.2	89.2	131.6	226.5	295.5	294.8	268.9	184.8
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°	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6
2.5°	5469.9	5495.7	5556.1	5607.9	5627.3	5674.8	5719.4	5745.3	5763.2	5774.0	5822.9
5°	5526.7	5578.4	5674.8	5747.4	5817.9	5905.6	5962.4	5998.4	6018.5	6030.0	6065.2
7.5°	5613.7	5666.2	5768.3	5879.7	5944.4	6016.3	6053.0	6078.9	6091.8	6088.2	6116.3
10°	5691.3	5743.1	5845.2	5930.8	5967.4	6008.4	6027.8	6033.6	6034.3	6037.2	6065.2
12.5°	5797.0	5828.7	5883.3	5939.4	5931.5	5932.9	5949.5	5942.3	5925.7	5922.9	5941.6
15°	5910.6	5911.4	5915.7	5903.5	5853.8	5832.3	5809.3	5789.8	5744.5	5741.7	5771.1
17.5°	6053.0	6019.2	5940.8	5857.4	5739.5	5658.3	5576.3	5542.5	5487.1	5476.3	5490.7
20°	6236.4	6165.9	5975.4	5768.3	5547.5	5402.3	5303.0	5203.1	5126.2	5107.5	5121.1
22.5°	6499.5	6360.8	6019.2	5673.4	5331.8	5083.7	4891.0	4770.9	4641.5	4575.4	4581.8
25°	6817.4	6600.2	6095.4	5553.3	5078.0	4719.9	4407.1	4166.2	4020.2	3923.2	3949.1
27.5°	7233.7	6935.3	6186.8	5434.6	4762.3	4254.7	3800.9	3474.5	3325.6	3279.6	3249.4
30°	7716.2	7340.1	6283.1	5259.2	4421.5	3678.7	3097.7	2825.9	2655.5	2628.2	2605.1
32.5°	8361.9	7849.9	6463.6	5068.6	4014.5	3102.7	2472.1	2159.3	2120.5	2098.2	2093.2
35°	9194.6	8517.9	6652.7	4821.3	3483.8	2427.5	1870.3	1701.3	1682.6	1707.0	1709.2
37.5°	10078.3	9242.7	6879.2	4542.3	2873.3	1811.3	1430.9	1313.7	1334.6	1410.8	1428.0
40°	10676.5	9720.2	7084.9	4163.3	2119.1	1315.9	1041.2	1016.0	1131.1	1228.9	1249.0
42.5°	11250.4	10081.9	7168.3	3662.2	1511.5	936.9	840.6	926.9	1087.9	1195.1	1209.5
45°	11740.0	10502.5	6958.3	3061.0	1024.7	783.1	805.3	924.7	1103.8	1222.4	1233.2
47.5°	12206.0	10846.2	6671.4	2411.7	808.2	753.6	804.6	944.1	1139.0	1251.2	1257.6
50°	12651.1	11108.0	6181.7	1835.0	757.2	739.9	811.1	974.3	1158.4	1228.9	1226.0
52.5°	12981.1	11243.2	5660.4	1481.3	737.0	729.1	828.4	1012.4	1162.0	1204.4	1201.5
55°	13223.4	11217.3	5318.1	1213.0	720.5	724.8	856.4	1041.2	1196.5	1260.5	1258.3
57.5°	13245.7	11100.1	4929.1	1024.7	700.4	724.1	886.6	1081.5	1369.1	1487.0	1451.1
60°	13219.1	10905.9	4540.8	899.5	678.1	728.4	918.2	1202.3	1617.9	1710.6	1685.5
62.5°	13088.3	10544.2	3959.1	816.8	658.7	744.2	942.0	1297.9	1605.7	1616.4	1580.5
65°	12684.1	10060.3	3195.5	733.4	639.2	755.0	961.4	1323.1	1474.8	1440.3	1422.3
67.5°	11884.6	8979.6	2464.9	657.2	614.1	752.9	1018.9	1287.1	1425.2	1400.0	1377.0
70°	10748.5	7751.4	1711.4	578.8	571.6	739.2	1004.5	1299.3	1401.4	1362.6	1331.7
72.5°	8979.6	6081.1	1088.7	514.8	508.4	706.8	968.6	1291.4	1385.6	1368.4	1325.9
75°	6761.3	4244.6	691.7	445.1	452.3	647.9	911.0	1249.0	1377.7	1323.8	1242.5
77.5°	4256.8	2095.3	537.9	378.2	389.0	558.7	787.4	1090.8	1322.3	1290.0	1185.7
80°	1610.0	850.6	420.6	307.0	316.4	434.3	645.7	897.4	1217.4	1270.6	1226.0
82.5°	741.3	532.1	315.7	246.6	250.2	316.4	481.8	664.4	1030.4	1166.3	1277.8
85°	432.9	348.7	210.7	164.7	171.1	187.0	271.1	405.5	668.0	889.5	995.2
87.5°	147.4	121.5	82.0	69.7	67.6	76.9	65.4	133.0	198.5	349.5	399.1
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)