

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: P510679

Luminaire Tested: **CTN-CA6-230-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510679
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-CA6-230-750-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35158 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

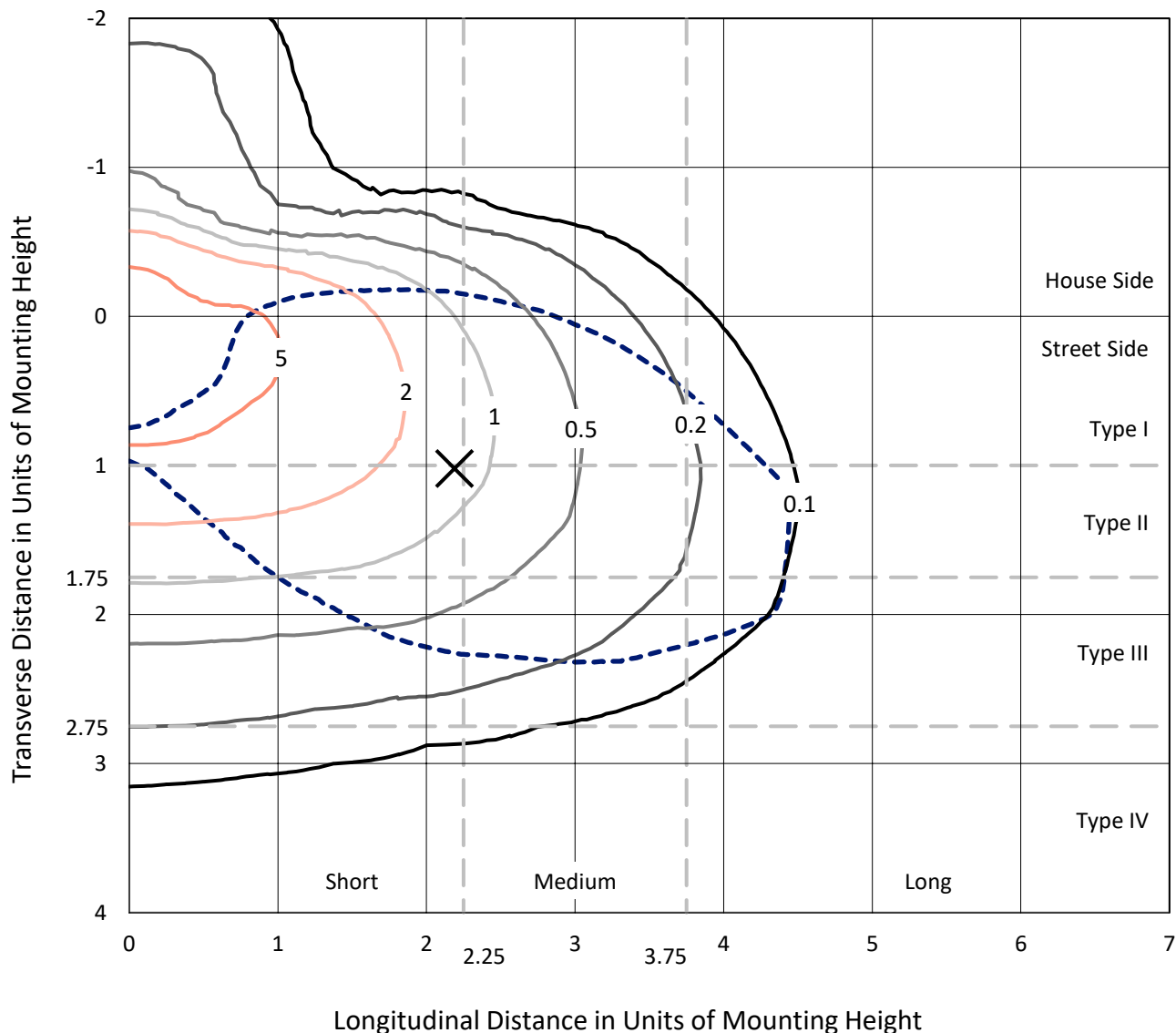
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

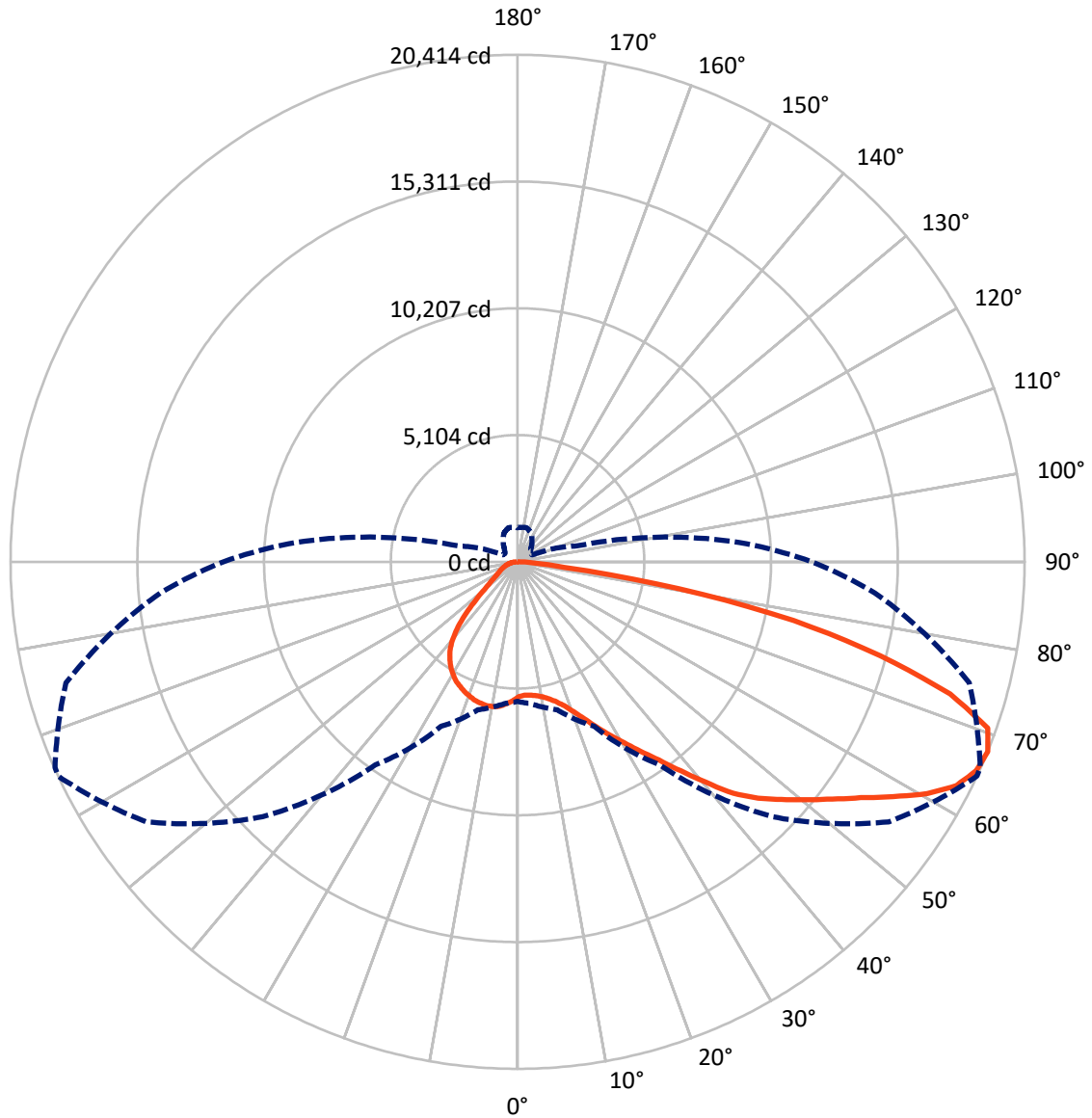
✕ Max cd
 - - - 1/2 Max cd



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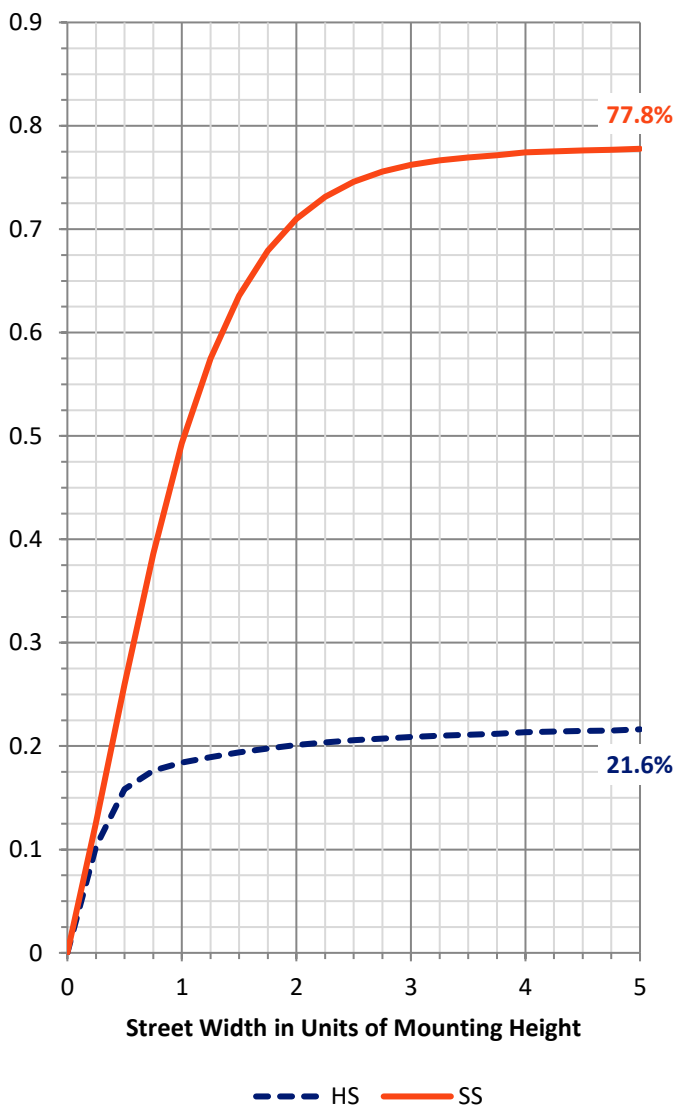
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7766.0	0.0	7766.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27392.0	0.0	27392.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	35158.0	0.0	35158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.1	1.5
10°-20°	1690.5	4.8
20°-30°	2926.5	8.3
30°-40°	4300.1	12.2
40°-50°	5812.2	16.5
50°-60°	7147.2	20.3
60°-70°	7658.7	21.8
70°-80°	4517.0	12.8
80°-90°	564.6	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°	35158.0	100.0
0°-180°	35158.0	100.0

Coefficient of Utilization



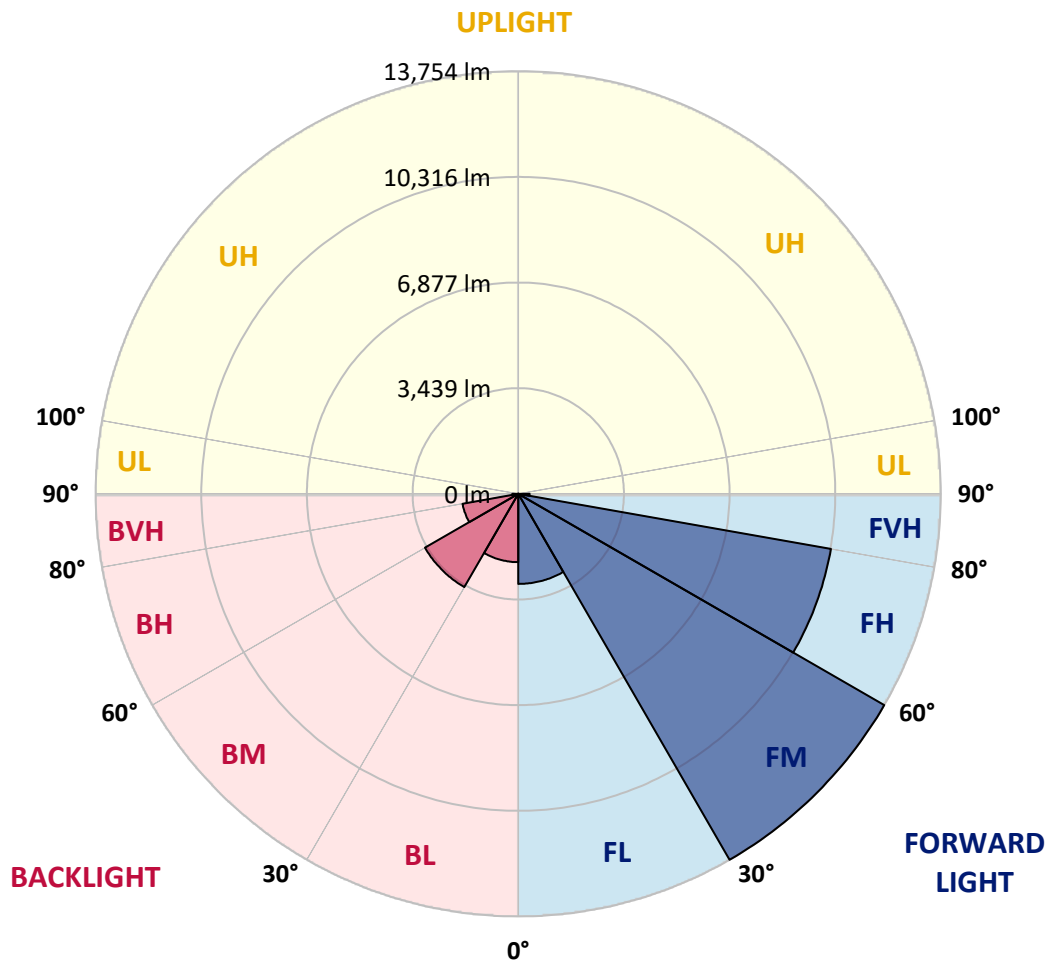
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2933.7	8.3			
FM	(30°-60°)	13754.0	39.1			
FH	(60°-80°)	10334.1	29.4			G4/12000
FVH	(80°-90°)	370.3	1.1			G3/500
BL	(0°-30°)	2224.4	6.3	B3/2500		
BM	(30°-60°)	3505.5	10.0	B3/5000		
BH	(60°-80°)	1841.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	194.4	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°	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6
2.5°	5328.1	5318.0	5313.7	5327.4	5337.4	5348.9	5365.3	5381.1	5383.3	5404.1	5431.3
5°	5392.6	5384.0	5374.7	5372.5	5368.9	5368.2	5372.5	5390.4	5394.7	5414.8	5473.6
7.5°	5535.9	5527.3	5510.1	5503.7	5484.3	5449.9	5433.4	5442.8	5444.9	5469.3	5542.4
10°	5769.6	5743.1	5722.3	5700.8	5639.9	5585.4	5545.3	5528.1	5524.5	5548.1	5632.7
12.5°	6048.5	6026.3	6003.3	5946.7	5869.3	5771.1	5700.1	5660.7	5657.8	5677.9	5741.7
15°	6343.1	6343.1	6327.3	6259.9	6183.9	6021.2	5911.6	5845.6	5849.9	5865.7	5895.1
17.5°	6723.7	6692.2	6685.0	6608.3	6523.7	6375.3	6201.2	6095.8	6100.8	6108.0	6085.7
20°	7110.8	7101.5	7090.7	7039.8	6963.1	6772.5	6576.8	6438.4	6439.1	6413.3	6314.4
22.5°	7622.6	7591.8	7599.7	7542.3	7438.4	7242.7	7017.6	6853.5	6864.2	6826.9	6647.7
25°	8130.8	8100.0	8083.5	8044.8	7955.2	7769.5	7502.2	7351.6	7338.7	7271.4	7011.2
27.5°	8638.3	8620.4	8634.0	8587.4	8514.3	8307.2	8062.0	7895.0	7903.6	7857.0	7469.2
30°	9163.7	9143.7	9203.2	9127.9	9082.7	8881.3	8646.2	8449.8	8457.0	8474.2	8039.1
32.5°	9560.1	9583.8	9687.7	9679.1	9670.5	9446.2	9198.9	9089.9	9100.7	9160.9	8715.7
35°	9942.9	9945.1	10091.3	10201.7	10248.3	10060.5	9803.9	9800.3	9870.5	10054.0	9659.1
37.5°	10260.5	10253.3	10448.3	10619.6	10747.2	10601.7	10460.5	10680.5	10744.3	11124.9	10608.8
40°	10433.9	10449.0	10699.9	10913.5	11164.4	11095.6	11110.6	11673.3	11830.3	12163.6	11319.2
42.5°	10312.1	10358.0	10748.6	11184.4	11562.9	11654.7	11957.2	12745.7	12812.3	12872.5	12018.1
45°	10107.8	10155.8	10588.8	11292.7	11891.9	12279.7	12799.4	13570.7	13643.8	13576.4	12599.4
47.5°	9894.9	9944.4	10426.8	11249.0	12164.3	12907.7	13548.5	14300.4	14393.6	14185.0	13158.5
50°	9624.7	9701.4	10228.9	11156.5	12385.1	13585.0	14257.4	15051.6	15094.7	14793.6	13582.2
52.5°	9292.1	9376.6	9947.2	10998.1	12557.9	14058.1	14974.9	15866.7	15862.4	15504.7	14066.7
55°	8942.2	9018.9	9606.7	10748.6	12654.6	14422.3	15548.4	16764.8	16816.4	16516.8	14505.4
57.5°	8494.2	8563.8	9204.6	10413.1	12554.3	14731.2	16477.4	17832.2	17858.0	17221.4	14854.5
60°	7900.7	8003.2	8646.9	9986.6	12266.1	15088.9	17501.0	18954.7	18986.2	17914.6	15078.9
62.5°	7249.1	7290.0	7945.9	9330.0	11846.8	15364.9	18210.6	19832.8	19786.9	18456.5	15146.3
65°	6454.9	6487.2	7054.9	8485.6	11067.6	15213.6	18465.1	20284.4	20227.8	18797.0	14939.1
67.5°	5623.4	5723.0	6168.9	7314.4	9980.2	14515.5	18250.1	20414.1	20385.5	18822.8	14444.5
70°	4543.9	4579.0	4981.9	5958.9	8327.2	13117.7	17533.3	20081.5	20059.3	18246.5	13434.5
72.5°	3204.2	3169.7	3365.4	4131.7	6014.8	10434.7	14969.9	18212.8	18250.1	16322.6	11699.1
75°	1701.0	1766.9	2071.6	2529.6	3409.9	6707.9	11934.9	15073.2	15060.2	13648.8	9247.6
77.5°	906.1	904.6	1113.9	1309.6	1669.5	3082.3	7872.0	11367.2	11430.3	10575.1	6349.5
80°	435.1	451.6	464.5	532.6	832.2	1424.3	3293.0	6591.8	7021.9	6307.2	3016.4
82.5°	348.4	349.8	351.2	336.2	344.1	579.9	1268.8	1907.4	1976.3	1588.5	972.7
85°	258.1	242.3	240.1	203.6	230.1	348.4	640.1	814.3	774.2	753.4	549.1
87.5°	103.9	97.5	94.6	88.9	88.9	131.2	225.8	294.6	293.9	268.1	184.2
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°	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6	5430.6
2.5°	5452.8	5478.6	5538.8	5590.4	5609.8	5657.1	5701.5	5727.3	5745.3	5756.0	5804.8
5°	5509.4	5561.0	5657.1	5729.5	5799.7	5887.2	5943.8	5979.7	5999.7	6011.2	6046.3
7.5°	5596.2	5648.5	5750.3	5861.4	5925.9	5997.6	6034.1	6059.9	6072.8	6069.3	6097.2
10°	5673.6	5725.2	5827.0	5912.3	5948.8	5989.7	6009.0	6014.8	6015.5	6018.4	6046.3
12.5°	5778.9	5810.5	5865.0	5920.9	5913.0	5914.4	5930.9	5923.7	5907.3	5904.4	5923.0
15°	5892.2	5892.9	5897.2	5885.0	5835.6	5814.1	5791.1	5771.8	5726.6	5723.8	5753.1
17.5°	6034.1	6000.4	5922.3	5839.2	5721.6	5640.6	5558.9	5525.2	5470.0	5459.3	5473.6
20°	6216.9	6146.7	5956.7	5750.3	5530.2	5385.4	5286.5	5186.9	5110.2	5091.5	5105.1
22.5°	6479.3	6340.9	6000.4	5655.7	5315.2	5067.9	4875.8	4756.1	4627.0	4561.1	4567.5
25°	6796.1	6579.6	6076.4	5535.9	5062.1	4705.2	4393.3	4153.2	4007.7	3910.9	3936.7
27.5°	7211.1	6913.7	6167.5	5417.7	4747.5	4241.4	3789.1	3463.6	3315.3	3269.4	3239.3
30°	7692.1	7317.2	6263.5	5242.8	4407.7	3667.2	3088.0	2817.1	2647.2	2620.0	2597.0
32.5°	8335.8	7825.5	6443.4	5052.8	4002.0	3093.0	2464.4	2152.6	2113.9	2091.7	2086.6
35°	9165.9	8491.4	6632.0	4806.2	3473.0	2420.0	1864.4	1696.0	1677.3	1701.7	1703.9
37.5°	10046.9	9213.9	6857.8	4528.1	2864.4	1805.7	1426.5	1309.6	1330.4	1406.4	1423.6
40°	10643.2	9689.9	7062.8	4150.3	2112.4	1311.8	1037.9	1012.9	1127.5	1225.0	1245.1
42.5°	11215.3	10050.4	7145.9	3650.7	1506.7	934.0	838.0	924.0	1084.5	1191.3	1205.7
45°	11703.4	10469.8	6936.6	3051.5	1021.5	780.6	802.8	921.8	1100.3	1218.6	1229.3
47.5°	12167.9	10812.4	6650.6	2404.2	805.7	751.2	802.1	941.2	1135.4	1247.3	1253.7
50°	12611.6	11073.3	6162.4	1829.3	754.8	737.6	808.6	971.3	1154.8	1225.0	1222.2
52.5°	12940.6	11208.1	5642.8	1476.6	734.7	726.8	825.8	1009.3	1158.4	1200.7	1197.8
55°	13182.2	11182.3	5301.6	1209.3	718.2	722.5	853.7	1037.9	1192.8	1256.6	1254.4
57.5°	13204.4	11065.4	4913.8	1021.5	698.2	721.8	883.8	1078.1	1364.8	1482.4	1446.5
60°	13177.9	10871.9	4526.7	896.7	676.0	726.1	915.4	1198.5	1612.8	1705.3	1680.2
62.5°	13047.4	10511.4	3946.8	814.3	656.6	741.9	939.0	1293.8	1600.6	1611.4	1575.6
65°	12644.6	10028.9	3185.5	731.1	637.2	752.7	958.4	1318.9	1470.2	1435.8	1417.9
67.5°	11847.5	8951.6	2457.2	655.2	612.2	750.5	1015.7	1283.1	1420.7	1395.6	1372.7
70°	10714.9	7727.2	1706.0	577.0	569.9	736.9	1001.4	1295.3	1397.1	1358.4	1327.5
72.5°	8951.6	6062.1	1085.3	513.2	506.8	704.6	965.5	1287.4	1381.3	1364.1	1321.8
75°	6740.2	4231.3	689.6	443.7	450.9	645.8	908.2	1245.1	1373.4	1319.7	1238.7
77.5°	4243.5	2088.8	536.2	377.0	387.8	557.0	784.9	1087.4	1318.2	1286.0	1182.0
80°	1604.9	848.0	419.3	306.1	315.4	433.0	643.7	894.6	1213.6	1266.6	1222.2
82.5°	739.0	530.4	314.7	245.9	249.5	315.4	480.3	662.3	1027.2	1162.7	1273.8
85°	431.5	347.7	210.0	164.2	170.6	186.4	270.2	404.3	665.9	886.7	992.1
87.5°	146.9	121.1	81.7	69.5	67.4	76.7	65.2	132.6	197.8	348.4	397.8
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)