

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: P650933

Luminaire Tested: **GALN-SA5C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29362.7 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

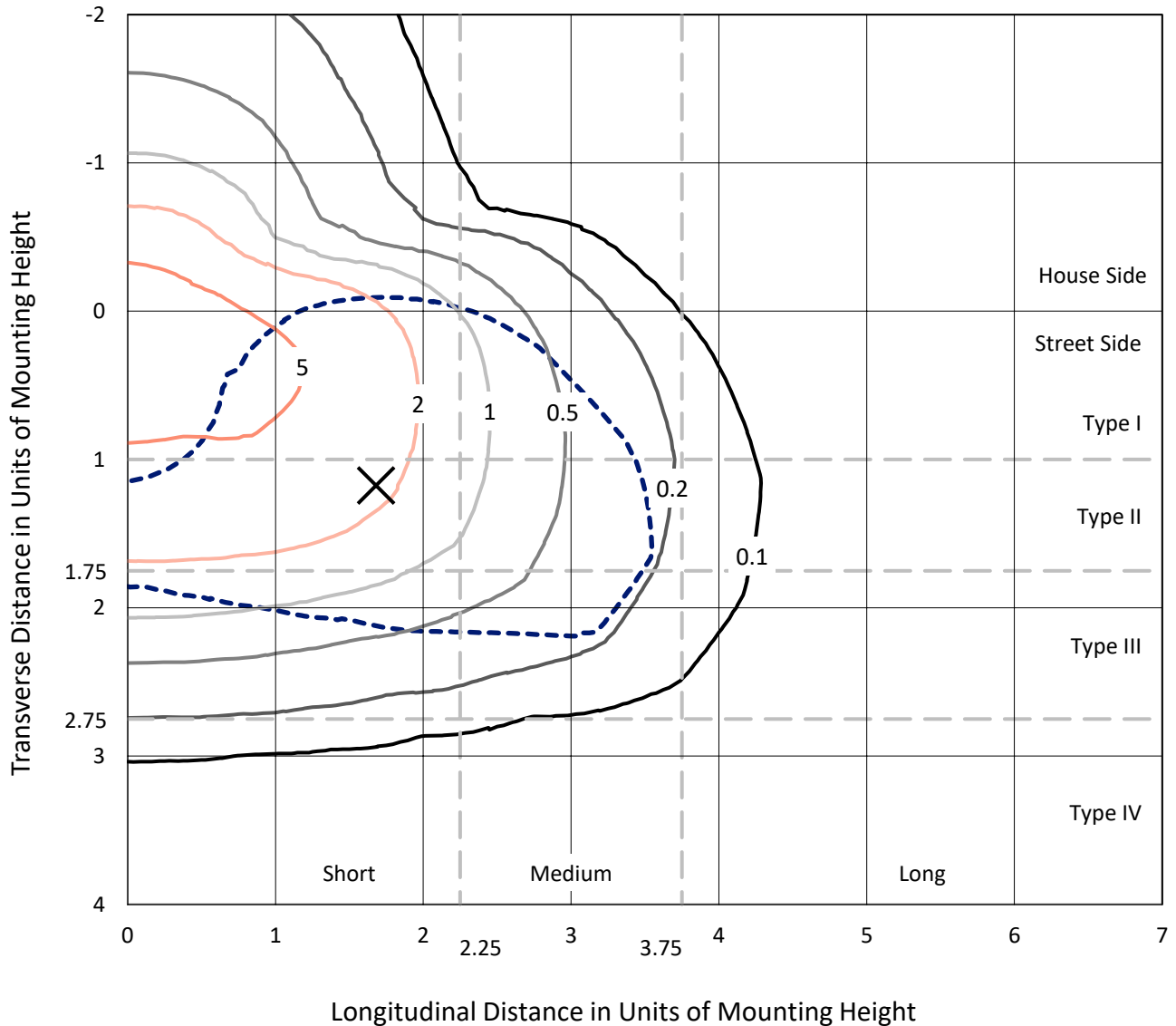
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

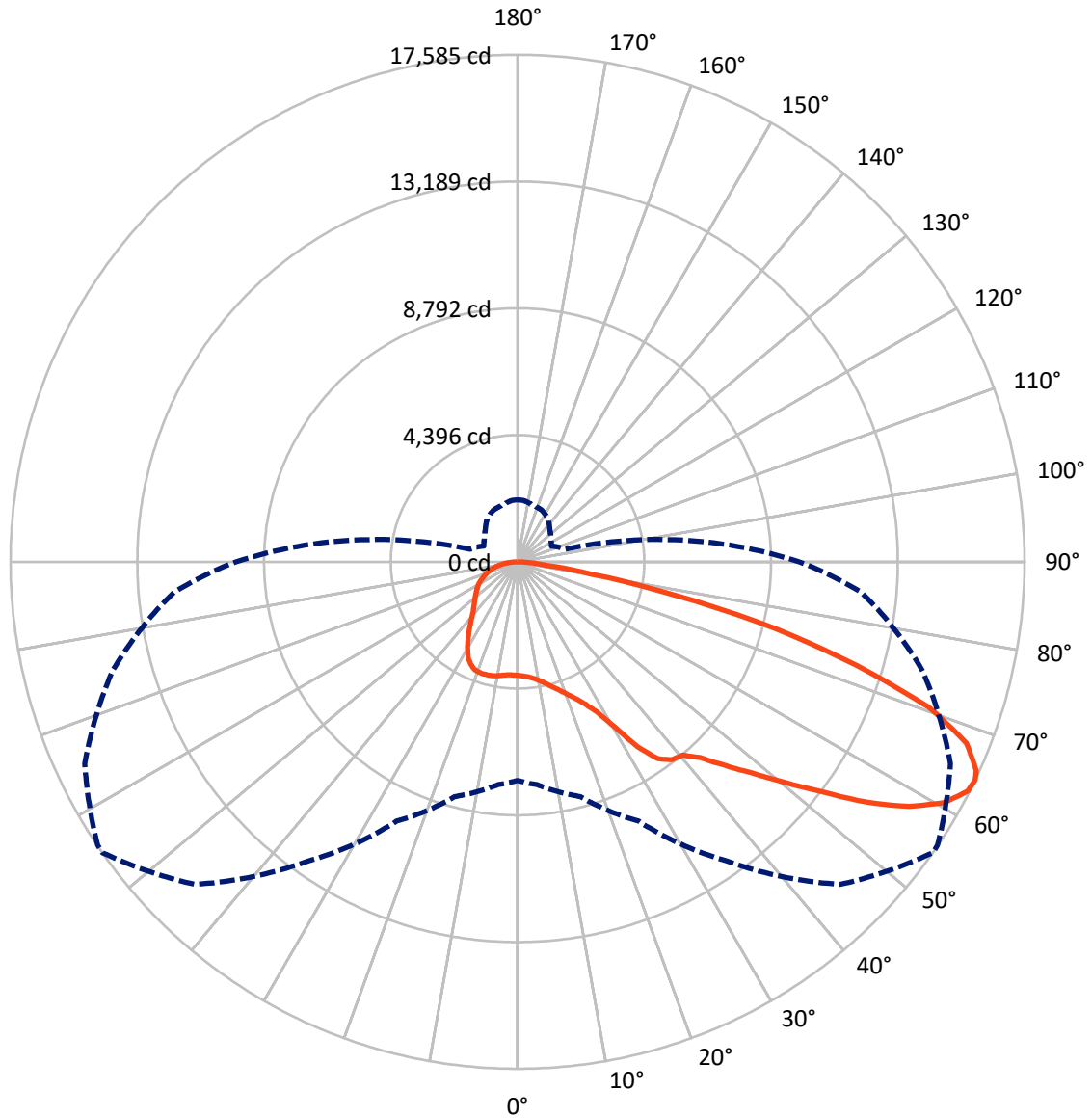
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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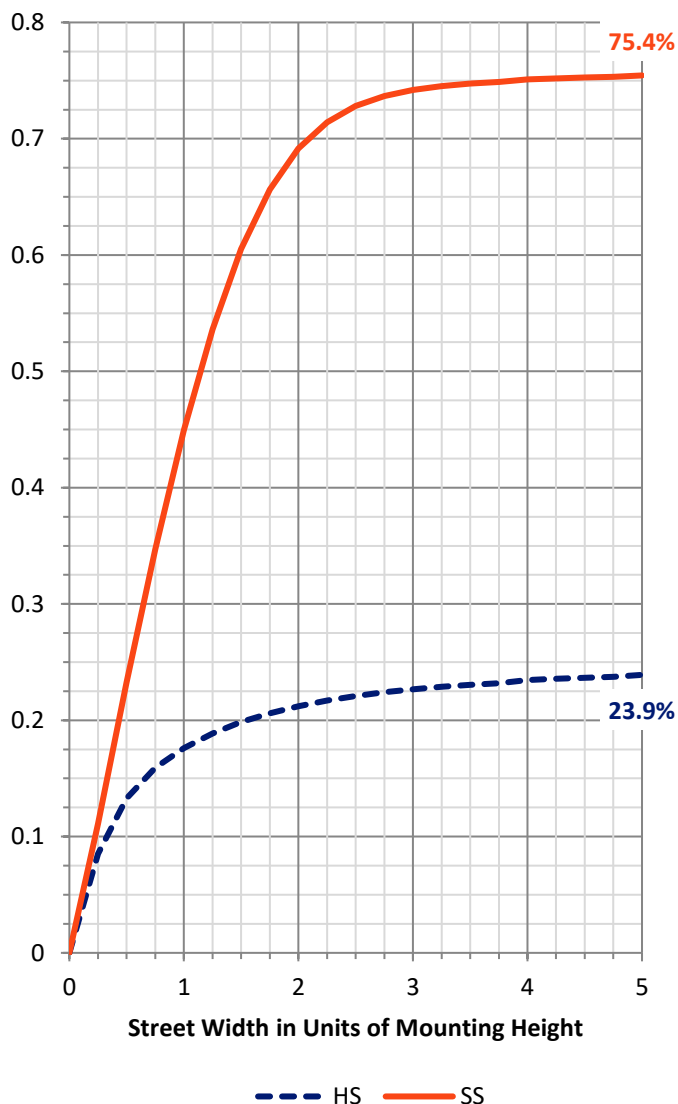
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7132.8	0.0	7132.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	22229.9	0.0	22229.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	29362.7	0.0	29362.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	1.3
10°-20°	1209.2	4.1
20°-30°	2152.6	7.3
30°-40°	3312.1	11.3
40°-50°	4695.1	16.0
50°-60°	6796.1	23.1
60°-70°	7033.2	24.0
70°-80°	3293.7	11.2
80°-90°	487.6	1.7
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°	29362.7	100.0
0°-180°	29362.7	100.0

Coefficient of Utilization

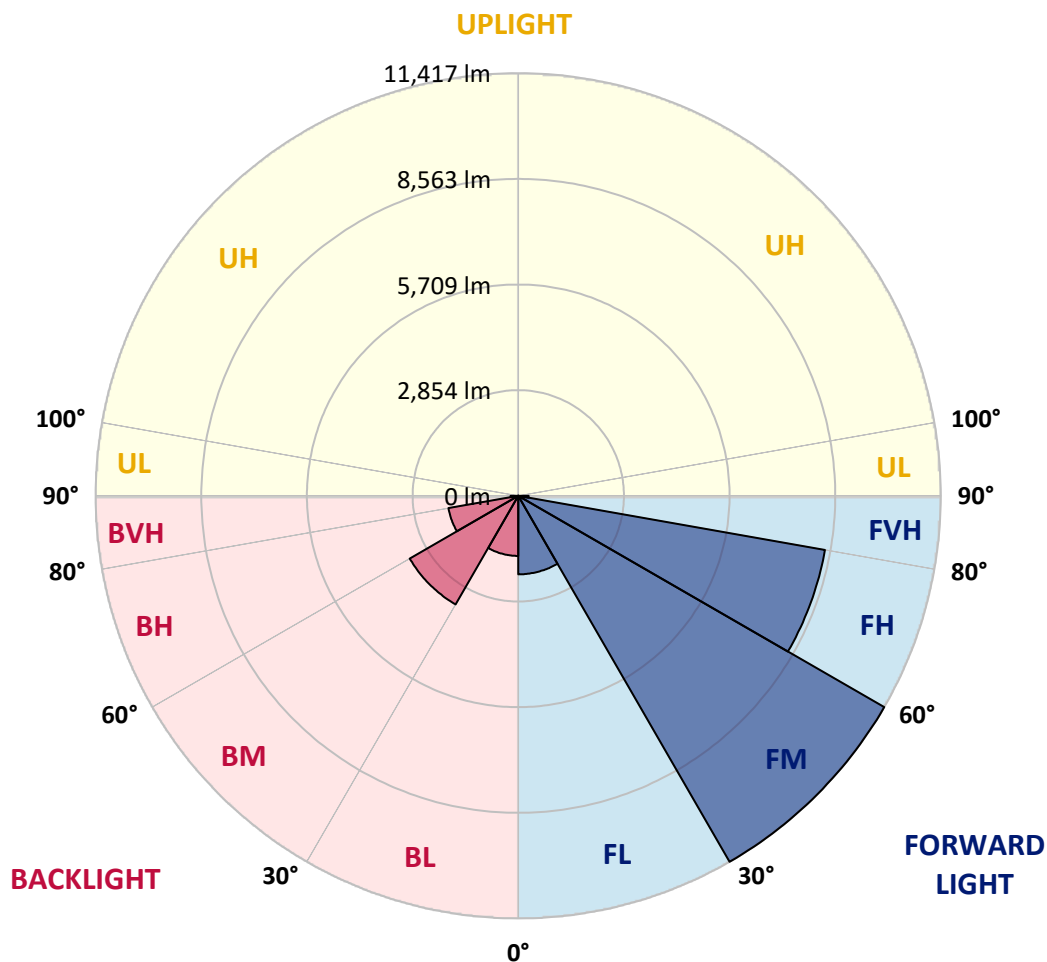


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2120.5	7.2			
FM (30°-60°)	11417.0	38.9			
FH (60°-80°)	8413.3	28.7			G4/12000
FVH (80°-90°)	279.2	1.0			G3/500
BL (0°-30°)	1624.6	5.5	B3/2500		
BM (30°-60°)	3386.2	11.5	B3/5000		
BH (60°-80°)	1913.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	208.4	0.7			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°	56°	65°	75°	85°
0°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3983.8	3982.1	3987.0	3982.1	3985.4	3974.0	3969.0	3972.3	3967.4	3959.3	3944.5
5°	4032.8	4031.2	4032.8	4026.4	4029.6	4023.1	4011.6	4014.8	4006.7	3988.7	3967.4
7.5°	4116.4	4109.8	4109.8	4108.2	4101.6	4091.8	4083.6	4080.4	4072.1	4049.2	4016.5
10°	4224.3	4224.3	4226.0	4212.9	4221.1	4203.1	4194.9	4193.3	4165.5	4136.0	4090.2
12.5°	4366.8	4375.0	4370.0	4363.5	4360.2	4353.7	4325.9	4332.4	4301.3	4250.6	4194.9
15°	4543.5	4556.6	4548.5	4545.2	4537.0	4512.5	4500.9	4496.1	4455.1	4381.5	4307.9
17.5°	4777.6	4761.2	4754.7	4746.5	4712.1	4694.1	4674.4	4671.2	4635.2	4548.5	4433.8
20°	4982.2	5005.1	4992.0	4983.9	4949.5	4915.1	4900.3	4895.5	4864.3	4769.4	4586.1
22.5°	5226.1	5230.9	5235.9	5216.2	5199.8	5173.7	5147.5	5139.3	5127.8	5029.6	4805.4
25°	5486.3	5505.9	5489.5	5469.9	5450.3	5448.7	5473.2	5469.9	5465.0	5370.0	5096.7
27.5°	5910.2	5928.2	5933.1	5911.8	5836.5	5843.1	5898.8	5916.8	5992.0	5834.9	5471.5
30°	6149.1	6167.1	6208.1	6288.2	6407.7	6512.5	6646.8	6687.6	6759.6	6463.4	5916.8
32.5°	6296.5	6303.0	6376.6	6525.6	6884.0	7275.2	7640.2	7655.0	7700.8	7285.1	6324.3
35°	6528.9	6533.8	6592.7	6756.3	7177.0	7828.4	8393.1	8411.1	8373.5	7540.4	6514.1
37.5°	6815.3	6828.4	6866.0	7001.9	7504.3	8291.6	8705.7	8692.7	8358.7	7743.3	6849.7
40°	7232.7	7232.7	7188.4	7371.8	7849.7	8556.8	8815.4	8792.5	8704.1	8330.9	7360.3
42.5°	7601.0	7594.4	7699.1	7823.5	8281.8	8966.0	9275.3	9312.9	9458.6	9069.1	7941.4
45°	8080.5	8109.9	8168.9	8394.8	9016.7	9664.9	10064.2	10100.2	10306.5	9938.2	8620.6
47.5°	8565.0	8574.8	8759.7	9060.8	9926.7	10612.5	10939.8	10998.8	11187.0	10954.5	9352.3
50°	8908.6	9002.0	9298.2	9772.8	10864.5	11768.0	12023.4	12093.7	12425.9	12060.9	10204.9
52.5°	9272.0	9363.7	9725.4	10448.8	11941.5	12949.7	13264.0	13311.4	13656.8	13180.5	11077.3
55°	9583.0	9668.1	10078.9	11047.9	12799.2	14156.0	14725.6	14669.9	14835.2	14043.0	11750.0
57.5°	9633.7	9702.4	10219.7	11430.9	13444.1	15190.4	16007.1	16039.9	15848.4	14687.9	12304.8
60°	9240.9	9381.7	9975.8	11389.9	13733.7	15910.5	16963.0	16985.8	16442.5	15018.6	12525.9
62.5°	8545.3	8530.6	9249.1	10732.0	13327.8	16074.2	17526.0	17501.5	16674.9	14859.8	12311.4
64°	7584.6	7761.3	8432.4	9923.5	12673.1	15822.2	17584.9	17571.9	16563.6	14529.2	11946.4
65°	6998.6	6988.8	7651.7	9262.2	12021.7	15442.4	17480.2	17462.2	16331.2	14232.9	11663.2
67.5°	5052.6	5075.4	5730.2	7147.6	9772.8	13957.9	16797.6	16730.5	15414.6	13250.9	10586.3
70°	3060.7	3073.8	3587.7	4741.6	7014.9	11283.5	15141.3	15144.6	14012.0	11784.3	9010.1
72.5°	1612.2	1646.5	1852.8	2692.4	4260.4	7916.8	12283.6	12574.9	12029.9	10057.6	7118.1
75°	896.9	901.8	1047.5	1327.4	2173.6	4430.6	9232.8	9316.2	9524.1	8095.2	5263.7
77.5°	684.2	694.0	739.8	857.7	1183.4	2054.1	5587.8	6006.8	6712.2	5707.3	3003.4
80°	554.8	564.6	603.9	674.3	787.3	973.9	2595.8	2821.7	3592.6	2533.7	1171.8
82.5°	432.1	425.5	476.3	522.1	572.9	576.1	1065.5	1178.4	1463.3	1090.0	507.4
85°	320.8	320.8	361.7	351.9	369.9	337.2	469.7	518.8	585.9	463.2	235.6
87.5°	127.7	140.8	237.3	212.8	165.3	132.5	173.5	183.3	202.9	181.7	98.2
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°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3946.1	3951.0	3939.6	3931.4	3928.1	3923.2	3918.3	3920.0	3926.5	3933.0	3931.4
5°	3965.7	3967.4	3947.7	3938.0	3931.4	3924.9	3924.9	3929.7	3942.9	3952.7	3952.7
7.5°	4014.8	4014.8	3987.0	3969.0	3959.3	3947.7	3944.5	3946.1	3956.0	3969.0	3970.7
10°	4091.8	4085.2	4049.2	4021.4	4003.4	3975.6	3951.0	3938.0	3942.9	3951.0	3951.0
12.5°	4185.1	4167.1	4121.2	4083.6	4039.4	3987.0	3936.3	3910.1	3908.5	3916.7	3913.4
15°	4284.9	4265.3	4201.5	4132.8	4055.8	3978.9	3918.3	3880.6	3851.2	3843.0	3861.0
17.5°	4401.1	4360.2	4271.9	4176.9	4062.4	3962.5	3867.6	3790.6	3738.2	3723.5	3728.5
20°	4541.9	4487.9	4368.4	4219.5	4057.4	3903.6	3756.2	3653.1	3568.0	3541.9	3545.2
22.5°	4736.7	4643.4	4468.2	4240.7	4016.5	3792.3	3587.7	3453.5	3350.4	3309.4	3334.0
25°	4957.6	4856.2	4563.2	4235.9	3910.1	3613.9	3388.0	3212.9	3119.6	3059.1	3072.1
27.5°	5262.1	5082.0	4664.7	4191.6	3757.9	3396.2	3134.3	2969.0	2883.9	2852.8	2867.6
30°	5651.6	5375.0	4774.3	4072.1	3517.3	3121.2	2879.0	2770.9	2720.2	2680.9	2694.1
32.5°	5933.1	5581.2	4798.8	3870.9	3257.1	2870.8	2705.5	2625.3	2569.7	2532.0	2540.2
35°	6134.4	5756.3	4787.4	3623.7	2985.4	2664.5	2568.0	2502.6	2412.5	2330.7	2315.9
37.5°	6404.5	5975.6	4704.0	3353.7	2716.9	2525.4	2456.7	2335.6	2206.3	2096.6	2091.7
40°	6818.6	6232.7	4525.5	3036.1	2487.8	2422.3	2338.9	2181.7	2042.6	1954.2	1947.7
42.5°	7245.7	6470.0	4283.3	2702.2	2299.6	2314.3	2212.8	2057.3	1972.2	1915.0	1908.4
45°	7767.9	6726.9	4021.4	2412.5	2160.4	2212.8	2103.2	2013.2	1962.4	1924.8	1915.0
47.5°	8332.5	6990.4	3726.8	2152.3	2042.6	2119.6	2057.3	2016.5	1988.6	1962.4	1951.0
50°	8941.4	7285.1	3450.2	1942.8	1936.2	2023.0	2052.5	2037.7	2021.3	2013.2	2003.3
52.5°	9609.2	7586.2	3217.8	1795.5	1843.0	1954.2	2054.1	2065.6	2065.6	2060.6	2054.1
55°	10060.9	7795.7	2982.1	1676.0	1748.0	1898.6	2050.8	2095.0	2111.3	2104.9	2098.3
57.5°	10394.8	7910.3	2685.8	1572.9	1667.8	1844.6	2032.8	2098.3	2114.6	2122.9	2119.6
60°	10463.6	7803.9	2297.9	1464.9	1581.1	1766.0	1967.4	2049.2	2070.5	2121.2	2126.1
62.5°	10154.2	7476.6	1911.7	1358.5	1474.7	1646.5	1879.0	1993.5	2036.1	2114.6	2122.9
64°	9774.5	7109.9	1697.3	1291.4	1406.0	1579.4	1834.7	1978.8	2034.5	2139.2	2145.7
65°	9496.2	6843.1	1563.1	1248.8	1361.7	1535.2	1810.3	1983.7	2049.2	2176.8	2186.7
67.5°	8471.6	5924.9	1293.0	1149.0	1257.0	1460.0	1815.1	2024.6	2045.9	2191.6	2190.0
70°	7010.1	4717.0	1083.5	1057.3	1155.5	1399.4	1795.5	1959.2	1960.8	2057.3	2034.5
72.5°	5248.9	3486.2	939.5	962.4	1042.6	1255.4	1695.6	1870.8	1843.0	1856.0	1833.1
75°	3605.7	2306.1	808.5	860.9	924.8	1109.7	1554.9	1698.9	1654.8	1638.4	1622.0
77.5°	1924.8	1275.0	672.7	761.1	803.7	959.1	1356.9	1496.0	1450.1	1386.3	1365.0
80°	779.1	600.6	541.8	630.2	654.7	772.5	1129.3	1216.1	1181.7	1070.4	1034.4
82.5°	391.1	360.1	425.5	495.9	497.5	551.6	839.7	921.5	844.5	708.7	677.6
85°	204.6	211.2	293.0	348.6	307.7	297.9	504.1	558.1	512.3	445.2	401.0
87.5°	73.7	85.1	153.8	152.2	108.0	57.3	111.3	54.0	29.4	18.0	22.9
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)