

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: P652092

Luminaire Tested: **GALN-SA8A-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31079.2 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

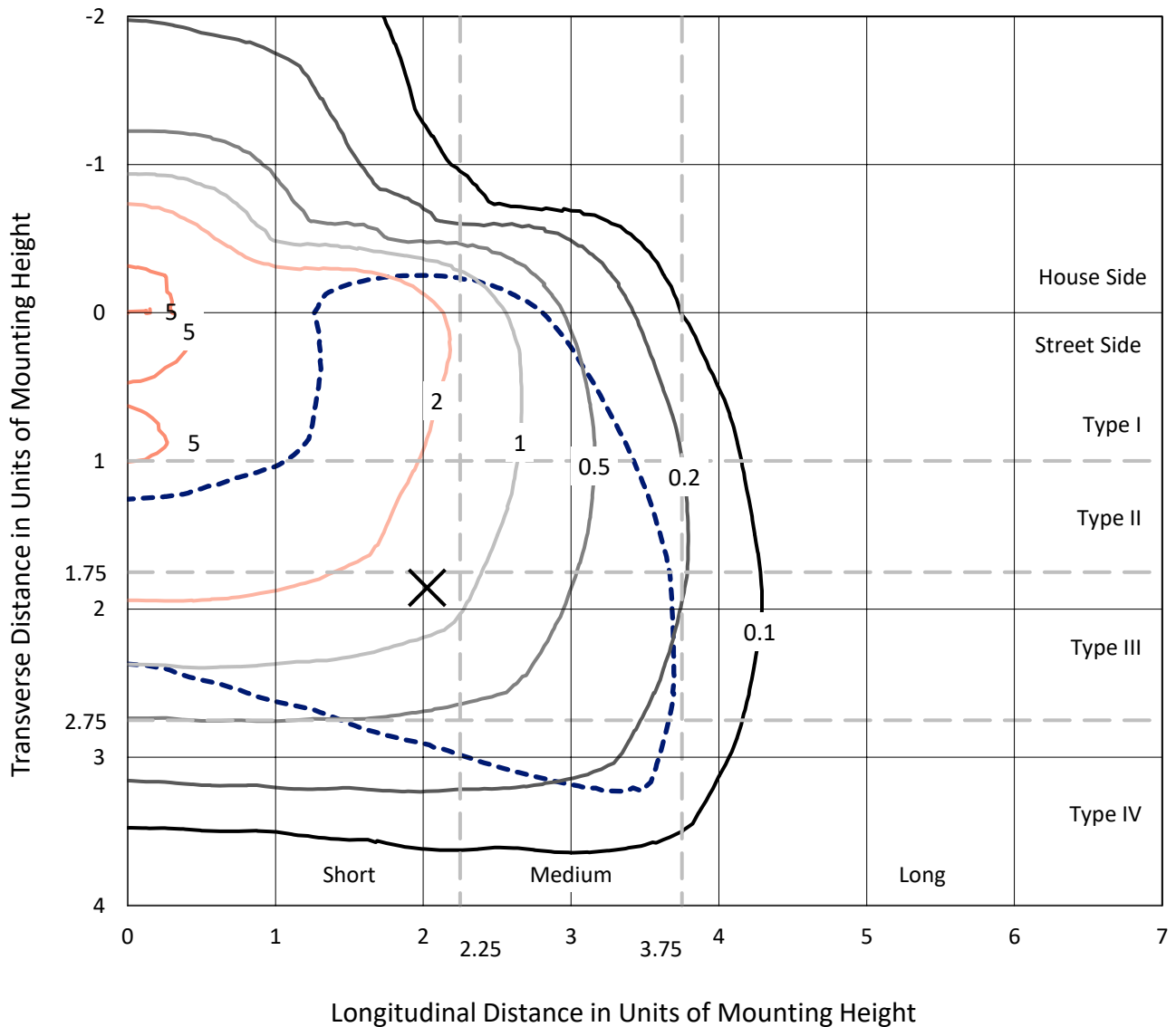
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

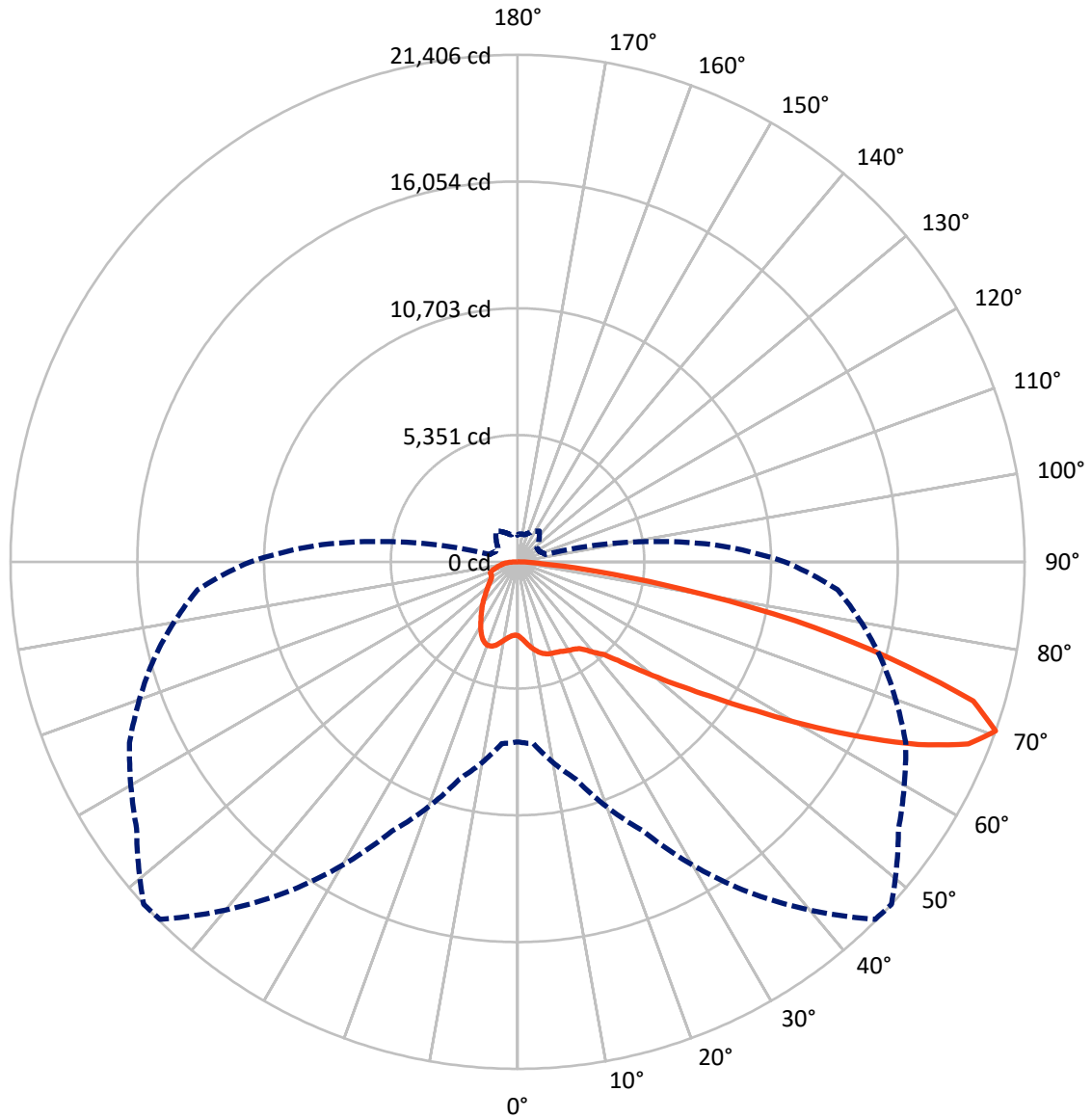
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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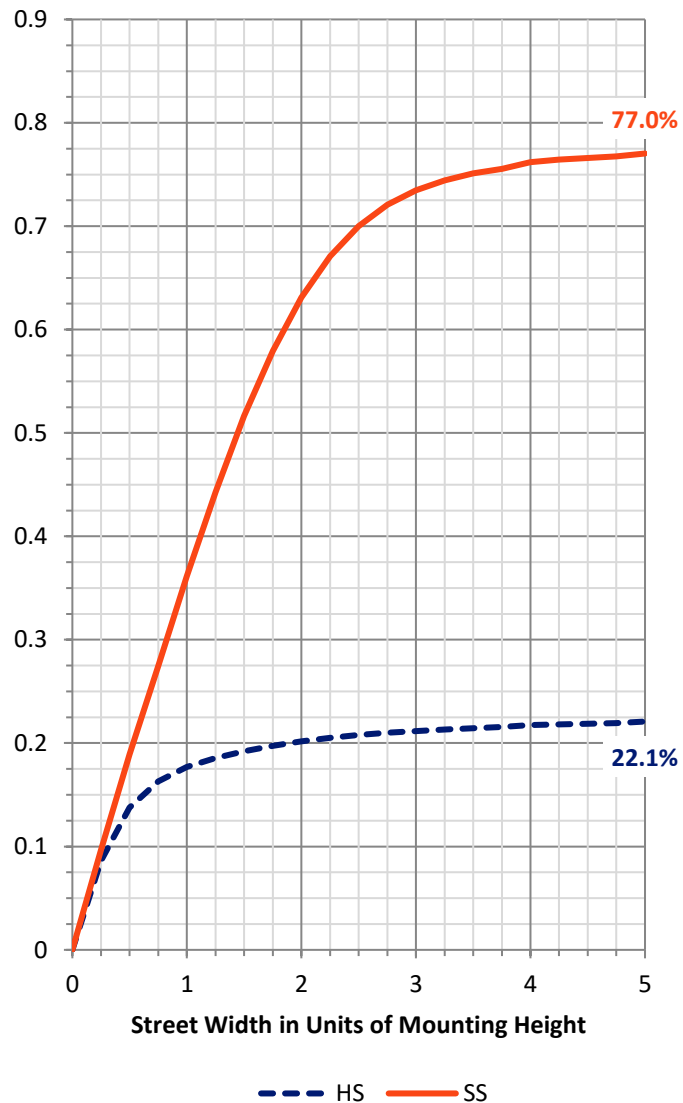
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7036.9	0.0	7036.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24042.2	0.0	24042.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	31079.2	0.0	31079.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.0
10°-20°	1075.2	3.5
20°-30°	1788.0	5.8
30°-40°	2534.2	8.2
40°-50°	3741.0	12.0
50°-60°	6479.5	20.8
60°-70°	9152.5	29.4
70°-80°	5261.4	16.9
80°-90°	725.9	2.3
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°	31079.2	100.0
0°-180°	31079.2	100.0

Coefficient of Utilization



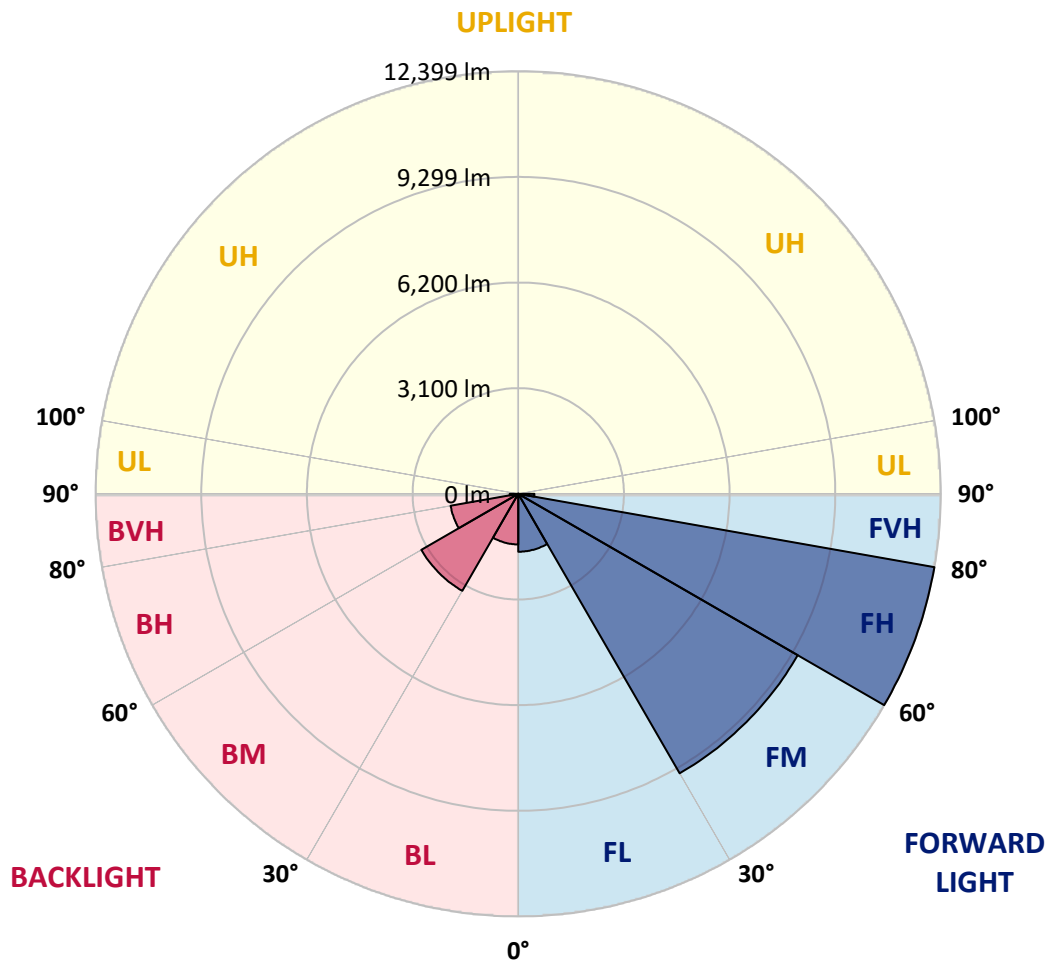
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.5	5.5			
FM (30°-60°)	9469.2	30.5			
FH (60°-80°)	12399.3	39.9			G5
FVH (80°-90°)	474.2	1.5			G3/500
BL (0°-30°)	1485.2	4.8	B3/2500		
BM (30°-60°)	3285.4	10.6	B3/5000		
BH (60°-80°)	2014.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	251.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9
2.5°	3321.2	3309.6	3307.9	3282.9	3269.6	3244.7	3234.7	3211.4	3183.2	3154.9	3128.3
5°	3582.3	3582.3	3570.6	3535.7	3480.9	3424.3	3399.4	3354.5	3274.6	3209.8	3154.9
7.5°	3850.1	3853.4	3830.1	3778.5	3700.4	3608.9	3585.6	3519.1	3406.0	3311.3	3229.8
10°	4081.2	4081.2	4049.7	3979.8	3881.6	3781.9	3758.6	3683.7	3557.3	3439.3	3332.9
12.5°	4257.6	4257.6	4215.9	4124.5	4018.0	3928.2	3901.7	3830.1	3712.0	3580.6	3445.9
15°	4372.3	4363.9	4317.4	4214.3	4111.1	4033.0	4014.7	3954.9	3846.7	3713.7	3562.4
17.5°	4377.2	4374.0	4329.0	4242.6	4152.8	4099.5	4087.9	4048.0	3963.1	3836.8	3677.1
20°	4280.8	4287.5	4257.6	4196.0	4152.8	4129.5	4124.5	4111.1	4051.3	3933.2	3773.6
22.5°	4177.7	4189.4	4161.1	4127.8	4124.5	4147.7	4151.1	4154.5	4116.2	4001.4	3855.1
25°	4152.8	4161.1	4132.8	4102.9	4121.2	4182.7	4196.0	4209.3	4179.3	4082.9	3951.5
27.5°	4279.2	4272.5	4217.6	4152.8	4164.4	4247.6	4265.9	4280.8	4265.9	4182.7	4071.3
30°	4636.7	4615.1	4505.3	4315.8	4255.9	4314.1	4332.4	4374.0	4374.0	4312.4	4201.0
32.5°	5235.4	5193.8	4992.6	4620.1	4412.2	4377.2	4395.6	4463.8	4498.7	4450.5	4329.0
35°	5962.2	5919.0	5631.3	5130.7	4698.2	4503.6	4498.7	4575.2	4668.3	4560.2	4402.2
37.5°	6692.3	6647.4	6301.4	5739.3	5115.7	4769.7	4739.8	4766.5	4806.3	4608.4	4503.6
40°	7422.4	7369.2	7066.5	6419.5	5626.3	5122.4	5044.1	4924.5	4907.8	4766.5	4699.9
42.5°	8145.8	8097.7	7944.6	7182.9	6238.3	5466.6	5346.8	5140.6	5203.9	5119.0	5060.8
45°	8876.0	8879.3	8716.3	8039.5	6976.7	6101.9	5940.6	5618.0	5767.7	5736.0	5769.3
47.5°	9522.9	9514.6	9456.4	8871.0	7893.0	6920.2	6712.3	6338.0	6594.2	6710.6	6965.1
50°	10149.9	10144.9	10148.3	9814.0	8957.5	7893.0	7663.5	7271.0	7848.1	8252.3	8708.0
52.5°	11048.0	11076.2	10875.0	10786.8	10251.4	9042.3	8789.5	8383.7	9330.0	9966.9	10856.7
55°	11949.3	11926.1	11768.1	11859.5	11605.1	10402.7	10138.3	9815.6	10979.8	11676.6	13013.7
57.5°	12479.9	12488.2	12649.6	13096.9	13276.5	12099.0	11859.5	11610.1	12834.2	13328.1	14933.0
60°	12957.2	12995.5	13459.4	14304.3	14791.6	14182.9	13970.0	13727.2	14535.5	14731.7	16599.4
62.5°	13106.9	13225.0	14034.9	15298.9	16268.5	16534.6	16270.1	15734.6	16155.4	16078.8	17728.6
65°	12360.2	12521.5	13973.4	15671.4	17587.2	18766.4	18598.5	17603.9	17535.7	17075.1	17913.2
67.5°	10394.3	10555.7	12420.1	14889.7	18132.8	20698.9	20530.9	18967.7	18373.9	17168.2	16516.2
70°	7605.3	7706.8	9489.7	12536.5	17036.8	21347.5	21405.7	19632.9	18074.5	15902.6	13560.9
72.5°	4382.3	4606.7	5855.8	8819.4	13918.5	19707.7	20111.8	18249.2	16181.9	13266.5	9481.3
75°	1884.3	1889.3	2707.5	4864.6	9426.4	15841.0	16231.8	15127.6	12707.8	9173.6	5062.5
77.5°	896.4	913.1	1190.8	2172.0	5188.9	10944.9	11999.2	10687.1	8127.6	4407.2	1912.6
80°	582.1	593.7	728.5	1077.7	2544.5	6346.4	7081.5	6165.1	3585.6	1574.9	824.9
82.5°	352.5	355.9	487.3	658.6	1400.3	2873.9	3387.7	2675.9	1530.0	943.0	485.6
85°	214.5	216.2	296.0	407.5	849.8	992.9	1019.5	1011.1	898.1	617.0	259.4
87.5°	103.1	106.5	153.0	192.9	334.3	307.6	291.1	337.6	424.1	332.6	111.4
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°	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9
2.5°	3116.7	3111.6	3100.0	3095.0	3091.7	3093.4	3091.7	3091.7	3093.4	3093.4	3093.4
5°	3131.6	3123.3	3105.0	3105.0	3115.0	3138.3	3159.9	3176.5	3194.8	3193.1	3193.1
7.5°	3196.5	3181.5	3159.9	3166.5	3191.5	3228.1	3266.4	3302.9	3339.5	3342.8	3341.1
10°	3291.3	3276.3	3253.0	3261.3	3301.3	3356.1	3404.4	3457.6	3497.5	3509.2	3505.8
12.5°	3399.4	3369.5	3349.5	3372.7	3436.0	3509.2	3555.7	3595.6	3623.9	3640.5	3633.9
15°	3509.2	3480.9	3457.6	3505.8	3582.3	3650.5	3673.8	3680.5	3685.4	3702.1	3698.7
17.5°	3615.5	3577.4	3569.0	3632.2	3705.4	3735.3	3722.0	3693.8	3672.1	3685.4	3683.7
20°	3710.4	3680.5	3677.1	3740.3	3768.6	3740.3	3683.7	3633.9	3595.6	3599.0	3597.3
22.5°	3800.1	3776.9	3780.2	3806.9	3762.0	3665.5	3572.3	3504.1	3462.6	3470.9	3475.9
25°	3900.0	3876.7	3885.0	3841.8	3693.8	3525.8	3391.1	3332.9	3316.2	3332.9	3344.5
27.5°	4029.7	4014.7	4009.7	3843.5	3572.3	3319.5	3166.5	3144.9	3159.9	3196.5	3214.8
30°	4169.4	4169.4	4142.8	3815.1	3406.0	3071.8	2938.7	2942.0	2993.5	3045.1	3063.4
32.5°	4304.1	4332.4	4249.2	3738.7	3191.5	2830.6	2729.1	2732.5	2777.4	2840.6	2857.2
35°	4415.5	4497.0	4340.7	3599.0	2938.7	2627.7	2551.2	2506.3	2507.9	2556.2	2569.5
37.5°	4568.6	4719.9	4393.9	3391.1	2669.2	2454.7	2368.3	2290.1	2238.5	2218.6	2218.6
40°	4834.7	5057.5	4407.2	3083.4	2414.8	2290.1	2167.0	2073.9	1974.1	1884.3	1867.7
42.5°	5285.3	5566.4	4380.6	2729.1	2185.3	2108.8	1989.0	1874.3	1736.2	1609.8	1599.9
45°	6083.6	6228.3	4309.1	2361.6	1980.7	1934.2	1817.7	1693.0	1546.7	1433.6	1425.2
47.5°	7362.5	7158.0	4214.3	2035.6	1794.4	1781.2	1691.3	1546.7	1400.3	1322.1	1313.8
50°	9230.2	8621.5	4201.0	1799.5	1644.8	1651.5	1578.3	1445.3	1317.2	1252.3	1242.3
52.5°	11478.7	10389.4	4289.1	1633.1	1513.4	1538.4	1501.8	1378.7	1265.6	1210.7	1200.8
55°	13660.7	11979.3	4342.3	1503.5	1390.3	1436.9	1441.9	1338.8	1235.7	1180.8	1174.1
57.5°	15431.9	13176.7	4106.2	1385.4	1283.9	1355.4	1392.0	1315.5	1220.7	1179.2	1172.5
60°	16664.2	13742.2	3434.3	1280.6	1205.7	1290.6	1373.7	1317.2	1257.3	1262.3	1265.6
62.5°	17056.7	13491.1	2576.2	1202.5	1152.5	1269.0	1403.6	1385.4	1323.8	1362.1	1368.7
65°	16406.5	12453.3	1867.7	1140.9	1106.0	1283.9	1493.4	1435.3	1300.5	1328.8	1328.8
67.5°	14229.5	10728.6	1453.6	1084.3	1052.8	1312.2	1583.3	1430.3	1245.7	1278.9	1249.0
70°	11287.5	8298.9	1210.7	1021.1	996.2	1270.6	1591.6	1378.7	1180.8	1187.5	1130.9
72.5°	7490.6	5456.7	1041.1	961.3	909.7	1142.6	1523.4	1312.2	1117.6	1079.3	1022.8
75°	3670.5	2720.8	908.0	886.4	796.6	994.6	1430.3	1249.0	1049.4	989.5	958.0
77.5°	1422.0	1157.6	775.0	791.6	693.5	876.5	1307.2	1159.2	959.6	878.1	853.2
80°	690.2	656.9	635.3	660.3	570.5	746.7	1194.1	1081.0	876.5	786.7	750.1
82.5°	429.1	405.8	487.3	513.9	439.1	681.9	1132.6	1014.5	771.7	651.9	622.0
85°	217.9	232.9	326.0	350.9	314.4	542.2	933.0	761.7	557.2	462.4	465.7
87.5°	83.2	111.4	171.3	184.6	167.9	286.0	513.9	444.0	357.6	242.8	224.5
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)