

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: P651841

Luminaire Tested: **GALN-SA4A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15080 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

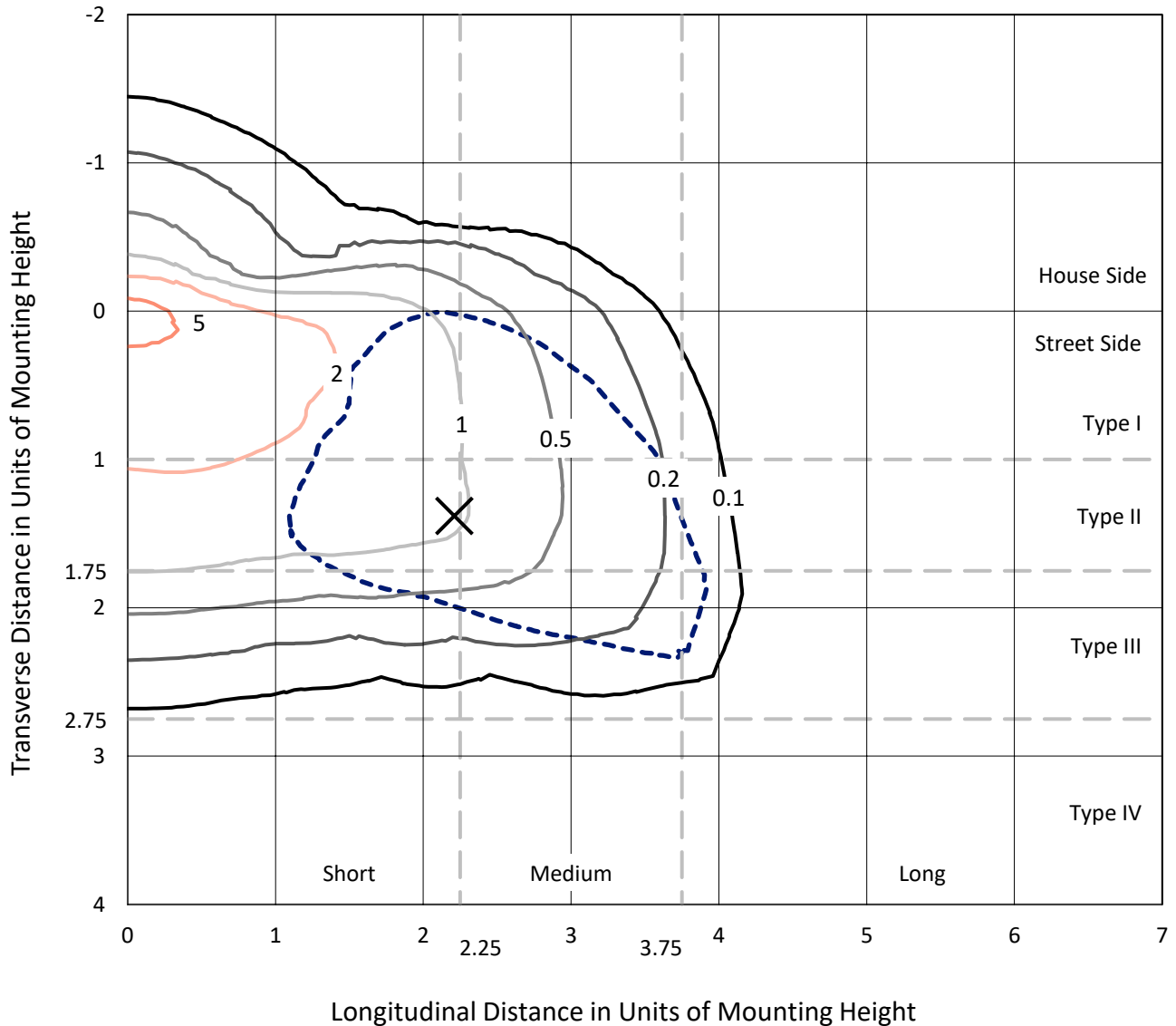
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651841
 CATALOG NUMBER: GALN-SA4A-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

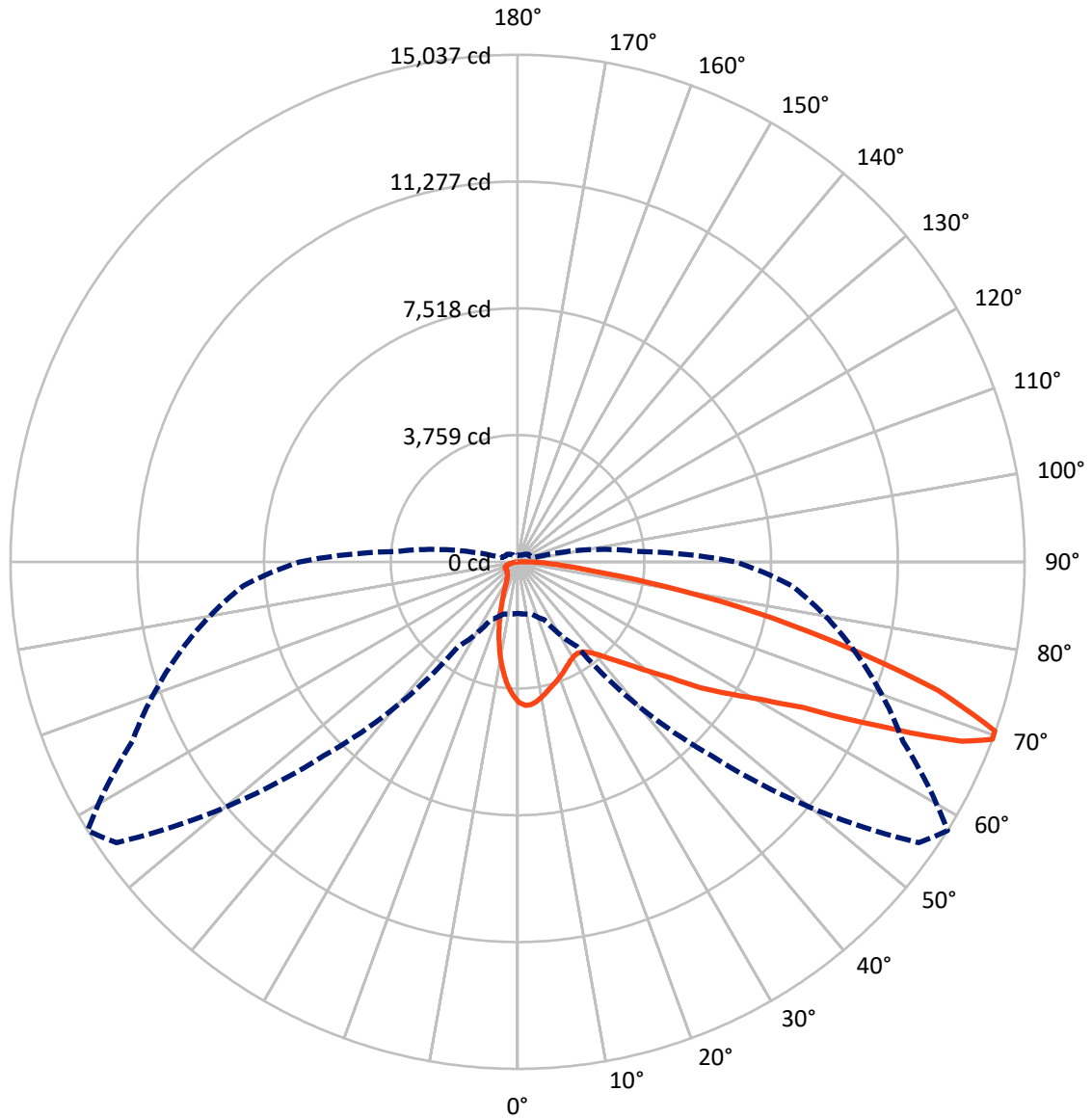
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P651841
CATALOG NUMBER: GALN-SA4A-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P651841
 CATALOG NUMBER: GALN-SA4A-840-U-SL3

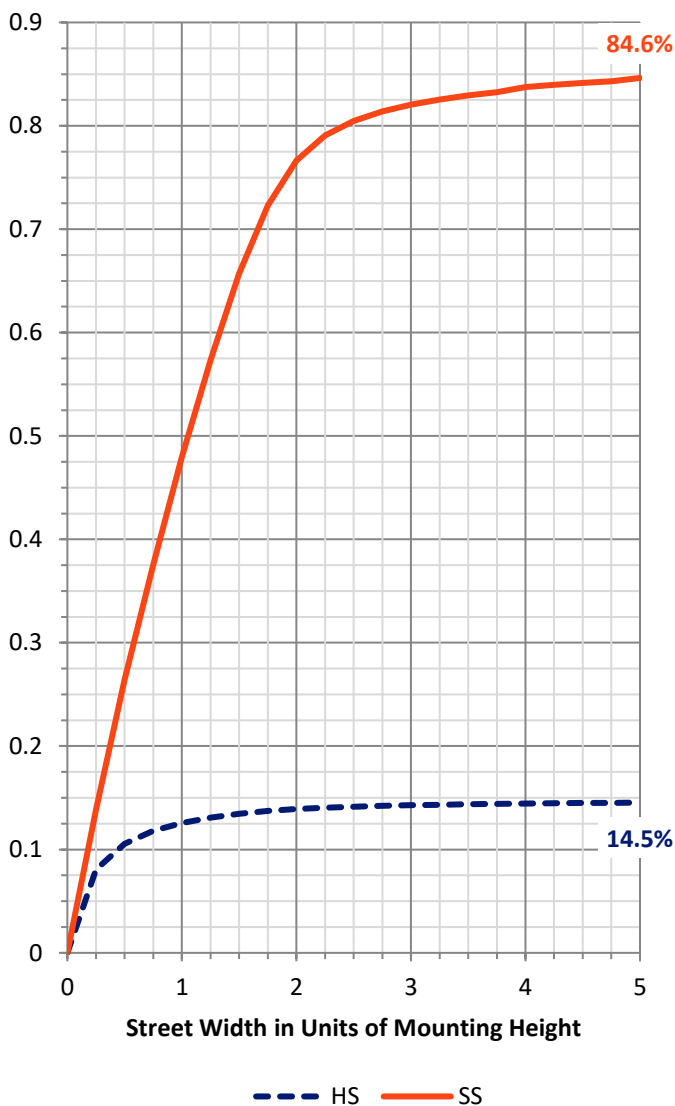
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2209.9	0.0	2209.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12870.0	0.0	12870.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	15080.0	0.0	15080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	2.3
10°-20°	777.1	5.2
20°-30°	1004.0	6.7
30°-40°	1304.0	8.6
40°-50°	1895.9	12.6
50°-60°	3025.2	20.1
60°-70°	4041.3	26.8
70°-80°	2329.6	15.4
80°-90°	348.9	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°	15080.0	100.0
0°-180°	15080.0	100.0

Coefficient of Utilization

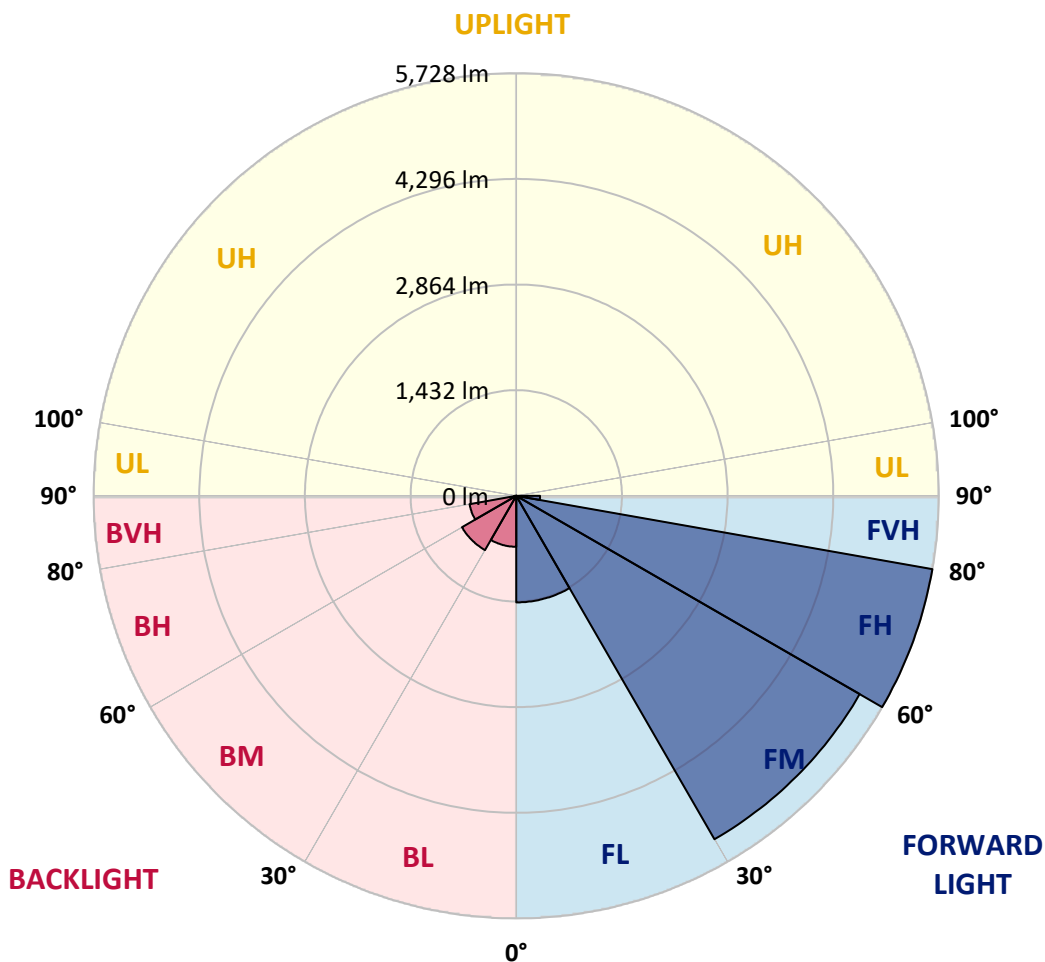


REPORT NUMBER: P651841
 CATALOG NUMBER: GALN-SA4A-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.3	9.6			
FM (30°-60°)	5375.2	35.6			
FH (60°-80°)	5728.3	38.0			G3/7500
FVH (80°-90°)	322.2	2.1			G3/500
BL (0°-30°)	690.7	4.6	B2/1000		
BM (30°-60°)	849.9	5.6	B1/1000		
BH (60°-80°)	642.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	26.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P651841

CATALOG NUMBER: GALN-SA4A-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2
2.5°	4322.0	4333.8	4330.4	4326.2	4319.5	4301.0	4270.7	4265.6	4246.3	4205.1	4153.8
5°	4255.5	4265.6	4266.5	4272.4	4280.8	4277.4	4255.5	4253.0	4224.4	4168.9	4083.1
7.5°	4027.6	4041.1	4070.5	4103.3	4132.8	4160.5	4167.2	4171.4	4153.8	4089.9	3975.5
10°	3771.1	3784.6	3798.0	3846.8	3919.1	3988.1	4045.3	4052.9	4057.1	3998.2	3858.6
12.5°	3486.9	3514.6	3543.2	3615.5	3712.3	3820.7	3921.7	3937.6	3966.2	3921.7	3757.7
15°	3245.5	3274.1	3315.3	3380.1	3497.0	3653.4	3795.5	3821.6	3877.9	3855.2	3663.5
17.5°	3078.1	3088.2	3116.8	3190.8	3317.0	3481.8	3671.9	3724.0	3814.0	3808.1	3582.7
20°	2946.1	2958.7	2976.4	3021.8	3153.0	3327.1	3556.7	3624.0	3745.9	3766.1	3502.8
22.5°	2890.6	2899.9	2897.3	2921.7	3010.9	3185.8	3439.8	3519.7	3685.3	3737.5	3428.8
25°	2894.0	2902.4	2889.8	2883.9	2936.9	3061.3	3317.8	3419.6	3636.6	3718.1	3361.6
27.5°	2950.3	2956.2	2932.7	2909.1	2913.3	2984.0	3216.9	3329.6	3595.4	3726.6	3305.2
30°	3026.0	3036.9	3021.8	2993.2	2962.1	2965.5	3152.2	3263.2	3576.0	3756.0	3278.3
32.5°	3123.6	3133.7	3126.9	3104.2	3063.8	3019.3	3136.2	3238.8	3577.7	3815.7	3272.4
35°	3226.2	3246.3	3257.3	3255.6	3222.8	3145.4	3199.2	3284.2	3618.1	3915.8	3306.9
37.5°	3342.2	3359.0	3406.1	3436.4	3406.1	3316.1	3341.4	3400.2	3707.2	4060.4	3382.6
40°	3454.9	3480.1	3549.1	3643.3	3631.5	3552.5	3558.4	3597.0	3864.5	4275.7	3530.6
42.5°	3572.7	3602.9	3723.2	3862.8	3890.6	3829.2	3845.1	3879.6	4088.2	4574.3	3784.6
45°	3724.0	3760.2	3908.2	4082.3	4191.6	4153.8	4199.2	4216.0	4387.6	4962.8	4119.3
47.5°	3919.1	3961.2	4143.7	4360.7	4515.4	4549.9	4628.9	4618.9	4758.5	5422.9	4553.3
50°	4248.0	4271.5	4443.9	4665.1	4877.9	5033.5	5119.3	5135.2	5218.5	5870.3	5038.5
52.5°	4639.0	4660.1	4784.5	4978.0	5244.6	5574.2	5786.2	5734.0	5754.2	6415.2	5606.2
55°	5078.9	5114.2	5193.3	5321.9	5667.6	6152.8	6578.4	6591.0	6367.3	6936.7	6150.3
57.5°	5419.5	5479.2	5614.6	5797.9	6236.1	6796.2	7368.1	7376.5	7090.6	7493.4	6750.8
60°	5247.9	5318.6	5628.1	6074.6	6982.1	7918.9	8311.8	8263.8	7794.5	8127.6	7483.3
62.5°	4507.8	4520.5	4970.4	5668.4	7211.7	9421.1	9716.2	9513.6	8734.0	8931.6	8227.7
65°	2917.5	2999.9	3356.5	4334.6	6457.3	10254.5	12177.0	11708.6	10051.0	9844.1	8850.9
67.5°	1841.8	1820.8	1968.8	2475.1	4441.4	9520.3	14277.1	14203.1	11773.3	10420.2	8702.0
69°	1527.3	1550.8	1601.3	1897.3	3056.3	8128.4	14525.2	15036.5	12608.4	10374.7	8161.2
70°	1385.1	1396.1	1449.0	1682.0	2358.2	6808.0	14118.1	15013.8	12936.4	10184.7	7769.2
72.5°	1099.2	1098.3	1189.2	1399.4	1762.7	3886.3	11592.5	13034.8	12569.8	9299.9	6419.4
75°	835.1	848.6	948.6	1184.1	1624.0	2123.5	8089.7	10038.3	10039.2	7345.4	4005.8
77.5°	602.2	610.6	727.5	994.1	1529.8	1721.5	5388.4	7199.9	6768.5	3365.8	1259.0
80°	394.4	399.5	488.6	787.2	1379.2	1624.0	3195.0	4406.9	3192.5	893.1	416.3
82.5°	216.1	241.4	298.6	509.6	1106.8	1500.3	1941.9	2230.3	1197.6	397.8	217.0
85°	108.5	115.2	168.2	297.7	723.3	1241.3	1352.3	1279.2	618.1	197.6	112.7
87.5°	32.0	40.4	69.8	115.2	293.5	646.7	752.7	675.3	238.0	71.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651841
 CATALOG NUMBER: GALN-SA4A-840-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2	4167.2
2.5°	4132.8	4117.6	4050.3	3989.8	3934.3	3875.4	3825.8	3782.1	3786.3	3787.1	3742.5
5°	4038.6	4004.1	3876.3	3756.8	3655.9	3528.1	3418.7	3348.1	3312.8	3265.7	3282.5
7.5°	3910.7	3844.3	3666.8	3468.4	3282.5	3116.8	2936.9	2813.2	2734.2	2657.6	2667.7
10°	3778.7	3671.9	3413.7	3151.3	2910.8	2645.8	2416.2	2219.4	2073.1	2018.4	1982.2
12.5°	3643.3	3502.8	3174.9	2825.8	2493.6	2176.5	1851.0	1640.0	1478.5	1392.7	1403.6
15°	3519.7	3348.9	2925.9	2500.3	2068.9	1691.3	1366.6	1165.6	1052.9	1029.4	1042.8
17.5°	3405.3	3181.6	2693.0	2184.1	1680.3	1268.2	1026.9	913.3	867.9	855.3	854.5
20°	3287.6	3039.5	2431.3	1846.0	1309.4	983.1	842.7	789.7	781.3	786.3	787.2
22.5°	3168.1	2863.7	2162.2	1510.4	1042.8	804.0	736.7	722.4	729.1	740.9	742.6
25°	3058.0	2708.9	1903.2	1216.1	832.6	706.4	673.6	673.6	688.8	706.4	707.3
27.5°	2967.1	2559.2	1645.0	965.5	697.2	635.8	624.9	630.8	651.8	665.2	666.1
30°	2892.3	2419.6	1401.1	773.7	613.1	579.4	576.9	587.0	602.2	614.8	615.6
32.5°	2835.9	2296.8	1173.2	650.1	555.1	536.6	535.7	543.3	551.7	555.1	558.4
35°	2814.1	2195.0	964.6	571.9	516.4	504.6	504.6	503.8	507.1	508.8	510.5
37.5°	2831.7	2116.8	803.2	521.4	487.8	479.4	474.3	469.3	467.6	467.6	468.4
40°	2906.6	2075.6	682.9	488.6	467.6	455.0	445.7	439.8	434.0	435.6	437.3
42.5°	3065.5	2083.2	601.3	466.8	449.9	432.3	418.8	412.1	407.9	412.9	412.1
45°	3318.7	2158.8	549.2	451.6	432.3	409.6	397.0	390.2	390.2	397.8	400.3
47.5°	3672.7	2303.5	521.4	439.8	418.8	391.9	379.3	374.2	375.9	388.5	389.4
50°	4105.0	2555.0	516.4	434.0	412.1	379.3	365.0	359.9	364.2	377.6	379.3
52.5°	4581.9	2878.8	540.8	434.8	406.2	371.7	353.2	345.7	349.9	360.8	364.2
55°	5147.0	3284.2	603.8	438.2	397.8	367.5	344.8	328.0	333.0	340.6	341.4
57.5°	5723.9	3795.5	714.8	439.0	391.1	359.9	330.5	308.6	308.6	313.7	316.2
60°	6428.7	4352.3	861.2	439.8	391.9	349.0	311.2	286.8	283.4	285.9	286.8
62.5°	7128.4	4818.2	885.6	437.3	400.3	338.1	290.1	264.9	259.0	258.2	256.5
65°	7437.0	4731.6	725.8	425.5	409.6	331.4	273.3	243.9	233.8	230.4	230.4
67.5°	6934.1	4002.4	545.8	409.6	403.7	324.6	257.3	226.2	214.5	207.7	207.7
69°	6461.5	3560.0	490.3	398.6	388.5	313.7	247.3	217.0	202.7	195.1	192.6
70°	6096.5	3255.6	466.8	389.4	374.2	301.1	239.7	210.2	194.3	185.9	184.2
72.5°	4865.3	2554.1	408.7	354.1	318.7	253.1	212.8	189.2	174.1	164.8	162.3
75°	2804.0	1384.3	338.9	307.8	256.5	196.8	180.0	164.8	153.1	144.7	142.1
77.5°	862.9	534.9	245.6	243.0	188.4	152.2	143.8	137.9	129.5	120.3	118.6
80°	363.3	272.5	166.5	164.0	125.3	106.0	103.4	102.6	99.2	91.7	89.1
82.5°	199.3	153.9	116.1	100.9	75.7	61.4	63.9	64.8	62.2	54.7	49.6
85°	97.6	84.1	56.3	45.4	34.5	21.9	21.0	25.2	23.5	16.8	18.5
87.5°	19.3	23.5	15.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
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)