

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: P650852

Luminaire Tested: **GALN-SA4C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19239.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

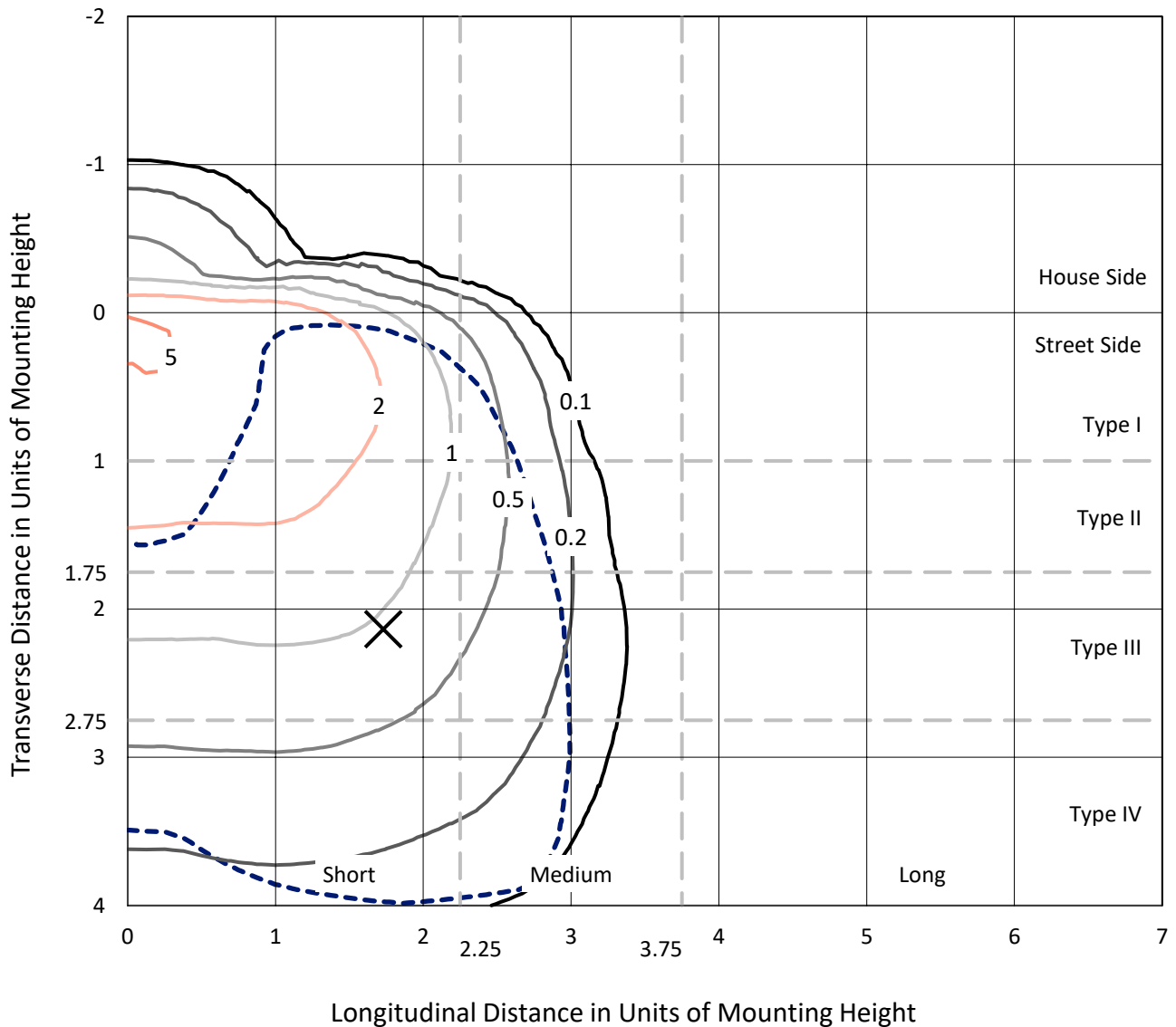
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650852
 CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

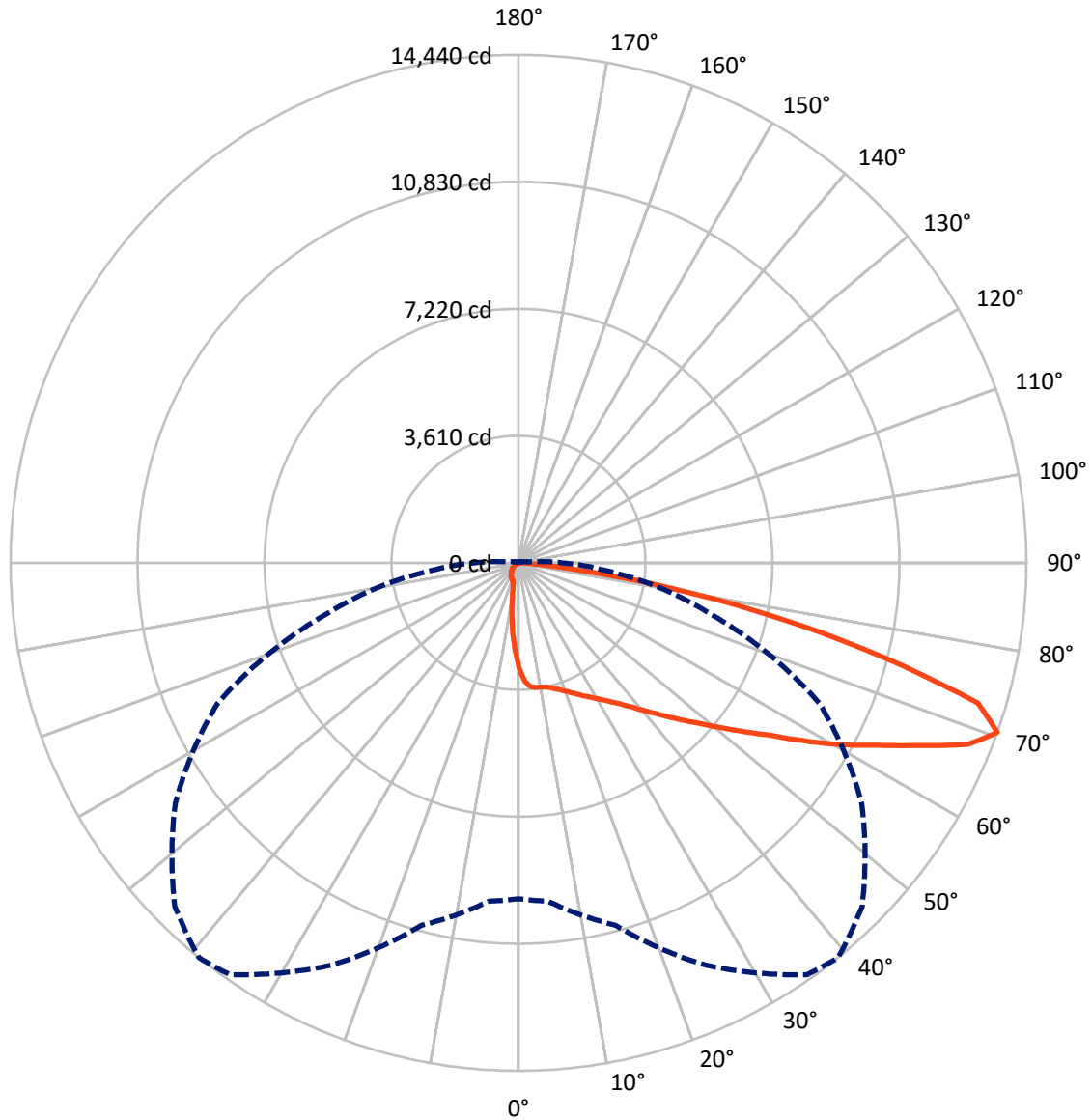
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P650852
CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P650852
 CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

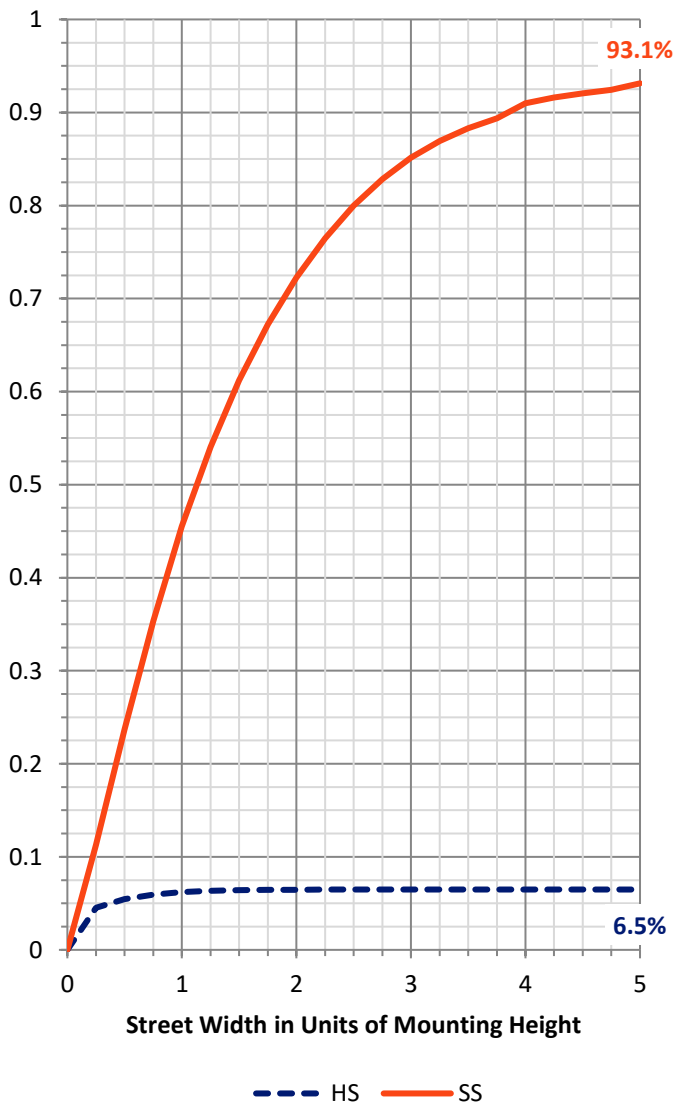
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.5	0.0	1254.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17985.0	0.0	17985.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	19239.6	0.0	19239.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.3
10°-20°	665.4	3.5
20°-30°	1114.7	5.8
30°-40°	1728.8	9.0
40°-50°	2739.7	14.2
50°-60°	4015.9	20.9
60°-70°	5147.5	26.8
70°-80°	3234.5	16.8
80°-90°	337.0	1.8
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°	19239.6	100.0
0°-180°	19239.6	100.0

Coefficient of Utilization

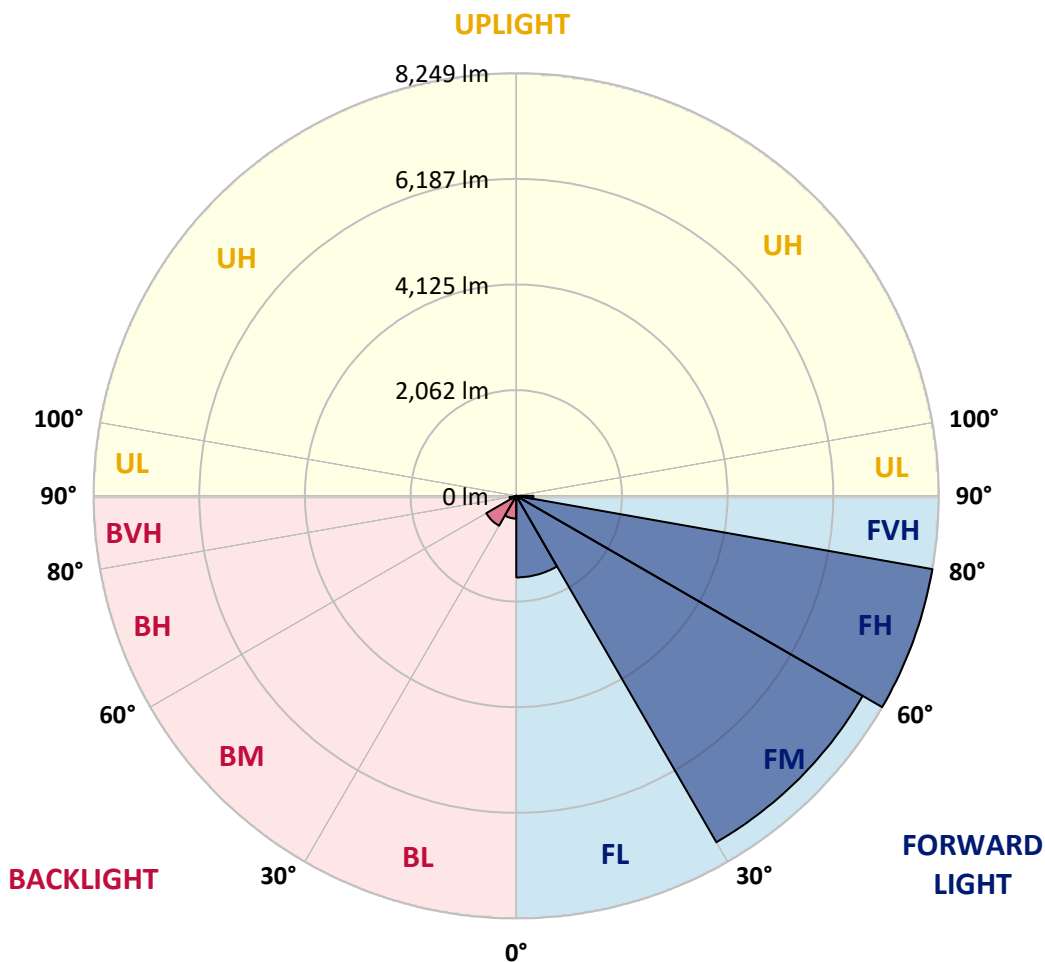


REPORT NUMBER: P650852
 CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.0	8.3			
FM (30°-60°)	7809.3	40.6			
FH (60°-80°)	8249.3	42.9			G4/12000
FVH (80°-90°)	334.5	1.7			G3/500
BL (0°-30°)	444.2	2.3	B1/500		
BM (30°-60°)	675.1	3.5	B1/1000		
BH (60°-80°)	132.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





REPORT NUMBER: P650852

CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0
2.5°	3468.8	3457.1	3441.6	3423.5	3371.8	3362.7	3331.7	3265.8	3186.9	3122.3	3033.1
5°	3633.0	3639.4	3627.7	3595.4	3557.9	3536.0	3497.2	3395.0	3292.9	3162.3	3016.2
7.5°	3670.5	3683.4	3669.1	3638.1	3601.9	3578.6	3547.6	3459.7	3340.8	3192.1	2991.7
10°	3666.6	3682.1	3673.1	3644.6	3614.9	3592.8	3559.3	3489.5	3393.8	3237.3	2999.4
12.5°	3660.1	3680.8	3679.5	3665.2	3640.7	3623.9	3603.2	3541.1	3452.0	3303.3	3042.1
15°	3642.0	3667.9	3691.1	3702.8	3704.0	3704.0	3678.2	3612.3	3526.9	3389.9	3097.7
17.5°	3649.8	3679.5	3737.7	3771.3	3794.6	3792.0	3764.8	3693.7	3599.3	3479.1	3155.9
20°	3697.6	3737.7	3819.1	3886.3	3909.6	3901.9	3865.7	3782.9	3675.6	3555.4	3212.8
22.5°	3815.3	3851.4	3953.5	4032.4	4049.2	4028.6	3976.8	3864.4	3767.4	3638.1	3281.3
25°	3991.0	4033.8	4128.1	4187.6	4187.6	4176.0	4103.6	3971.7	3870.9	3753.2	3370.5
27.5°	4204.4	4240.6	4333.7	4386.7	4355.6	4322.1	4249.7	4090.6	3993.7	3898.0	3477.8
30°	4420.3	4443.6	4541.8	4565.1	4532.8	4490.1	4412.6	4253.5	4168.2	4094.5	3633.0
32.5°	4624.6	4675.0	4756.4	4751.3	4707.3	4686.6	4615.5	4446.2	4398.3	4390.6	3850.2
35°	4828.9	4867.6	4940.0	4958.1	4919.3	4915.5	4863.8	4738.4	4739.6	4790.1	4188.9
37.5°	5004.7	5039.6	5124.9	5165.0	5172.7	5192.2	5171.5	5088.7	5206.4	5344.7	4637.5
40°	5152.1	5201.2	5309.8	5379.6	5459.8	5530.8	5534.8	5552.9	5789.4	6027.4	5223.2
42.5°	5267.1	5335.6	5493.4	5622.7	5806.3	5896.8	5969.2	6068.7	6466.9	6822.4	5913.6
45°	5417.1	5495.9	5692.5	5895.5	6182.4	6331.1	6432.0	6698.3	7263.3	7748.1	6622.0
47.5°	5665.3	5706.7	5907.1	6203.1	6580.7	6792.7	6989.2	7392.6	8117.9	8552.3	7211.6
50°	5984.6	6011.8	6163.1	6574.2	7062.9	7342.2	7700.3	8174.8	9004.8	9219.4	7545.1
52.5°	6337.6	6346.7	6460.5	6982.7	7603.3	7955.0	8355.8	8941.4	9727.5	9695.2	7766.2
55°	6747.4	6734.6	6831.5	7426.2	8243.3	8645.4	9112.1	9726.2	10354.6	10032.6	7893.0
57.5°	7216.8	7181.9	7276.2	8014.5	9063.0	9543.9	10018.4	10403.7	10840.7	10315.8	7953.7
60°	7708.0	7638.2	7750.7	8675.1	10028.8	10485.2	10879.4	10982.9	11352.7	10540.8	7849.0
62.5°	8099.8	8101.1	8310.5	9378.4	11021.6	11421.2	11630.6	11723.7	11793.5	10491.6	7298.2
65°	8711.3	8732.0	9066.8	10354.6	12171.0	12517.5	12661.0	12358.5	11812.9	9881.3	6470.8
67.5°	9342.2	9408.2	10021.0	11699.2	13498.8	13778.0	13593.2	12481.3	11285.4	8489.0	4906.4
70°	9547.8	9656.4	10666.2	12624.8	14295.2	14440.0	13814.3	11908.6	9434.0	5675.7	2469.3
72.5°	8748.8	8924.6	10295.1	12287.3	13787.1	13661.7	12359.8	9987.4	5997.6	2155.2	753.7
75°	6169.6	6247.1	8556.2	10192.9	11088.9	10733.3	9401.7	6438.4	2466.8	605.1	258.6
77.5°	3185.6	3148.1	5088.7	6763.0	7908.4	7540.0	6156.6	3333.0	934.8	252.1	160.3
80°	1647.1	1674.3	2201.7	3543.7	4827.6	4442.2	3282.6	1545.0	497.8	139.6	122.8
82.5°	923.1	866.2	1265.7	1547.5	2257.3	1770.0	1259.2	1093.8	217.2	84.0	116.4
85°	168.0	175.9	694.2	836.5	783.5	497.8	406.0	730.5	63.3	46.5	81.4
87.5°	2.6	2.6	134.5	240.4	152.6	69.8	128.0	104.7	13.0	18.1	14.2
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: P650852

CATALOG NUMBER: GALN-SA4C-840-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0
2.5°	2987.8	2938.7	2846.9	2756.4	2641.3	2547.0	2483.6	2417.6	2350.4	2355.6	2371.1
5°	2936.1	2850.7	2669.8	2478.4	2294.8	2129.3	1966.4	1820.3	1760.9	1706.6	1709.2
7.5°	2884.4	2764.1	2499.1	2199.1	1921.2	1639.4	1435.1	1267.0	1177.8	1110.5	1091.2
10°	2861.1	2702.0	2342.7	1930.3	1535.9	1228.2	965.8	828.7	722.7	689.1	698.1
12.5°	2871.4	2671.0	2201.7	1687.2	1217.9	855.9	672.3	602.5	579.2	575.3	572.7
15°	2890.9	2649.1	2063.4	1418.3	894.7	636.0	565.0	552.0	549.4	546.9	548.2
17.5°	2916.7	2629.7	1916.1	1166.1	686.5	555.9	535.2	528.8	527.5	527.5	527.5
20°	2942.6	2607.7	1751.8	941.2	572.7	524.9	512.0	508.1	506.8	506.8	505.5
22.5°	2972.3	2588.3	1585.0	739.5	527.5	502.9	491.3	488.7	487.4	486.1	486.1
25°	3015.0	2563.8	1407.9	605.1	499.0	482.2	470.6	468.0	466.8	461.5	462.9
27.5°	3071.8	2545.6	1225.7	522.3	473.1	456.4	448.6	444.7	442.2	438.2	439.6
30°	3149.4	2530.1	1031.7	477.1	443.5	429.2	421.5	418.9	416.3	412.4	412.4
32.5°	3283.9	2536.6	827.5	440.9	416.3	399.5	391.7	389.1	386.6	382.7	382.7
35°	3485.5	2574.1	662.0	409.8	384.0	367.2	359.4	359.4	355.6	350.4	349.1
37.5°	3815.3	2669.8	531.3	380.1	353.0	337.4	328.4	325.8	321.9	314.2	312.9
40°	4204.4	2818.4	447.3	350.4	324.5	309.0	301.2	293.5	283.2	275.3	274.1
42.5°	4693.1	2971.0	387.9	320.6	297.4	283.2	274.1	261.1	245.7	235.3	234.1
45°	5202.5	3110.6	347.8	293.5	271.5	259.9	249.5	228.8	209.4	196.5	195.2
47.5°	5582.6	3136.5	315.5	267.6	249.5	237.9	223.7	197.8	172.0	160.3	156.4
50°	5762.3	3011.1	281.8	241.8	227.6	214.6	196.5	166.8	138.3	124.1	121.5
52.5°	5825.6	2793.9	254.7	218.5	205.5	190.1	168.0	134.5	108.6	94.4	93.1
55°	5799.8	2519.8	230.1	196.5	179.7	161.6	139.6	107.3	80.1	68.5	65.9
57.5°	5664.1	2170.7	205.5	174.5	153.8	135.7	111.2	80.1	54.3	44.0	42.6
60°	5298.1	1695.0	181.0	150.0	130.6	111.2	87.9	56.9	33.6	24.6	24.6
62.5°	4680.2	1258.0	157.7	125.4	109.9	89.2	62.1	36.2	18.1	13.0	11.6
65°	3910.9	928.3	131.9	106.1	91.8	69.8	44.0	22.0	9.1	3.9	2.6
67.5°	2729.2	572.7	109.9	86.6	75.0	50.5	27.2	9.1	3.9	0.0	0.0
70°	1239.9	272.8	84.0	65.9	56.9	36.2	14.2	5.1	2.6	0.0	0.0
72.5°	385.3	143.5	59.5	47.9	38.8	23.3	7.7	3.9	2.6	0.0	0.0
75°	178.4	91.8	37.5	25.8	22.0	11.6	5.1	2.6	1.3	0.0	0.0
77.5°	133.1	71.1	22.0	14.2	11.6	7.7	3.9	2.6	1.3	0.0	0.0
80°	116.4	36.2	13.0	9.1	6.5	5.1	2.6	1.3	0.0	0.0	0.0
82.5°	104.7	18.1	7.7	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0
85°	56.9	10.3	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.3	5.1	3.9	2.6	2.6	1.3	1.3	1.3	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)