

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: P647078

Luminaire Tested: **GALN-SA7C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28150.4 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

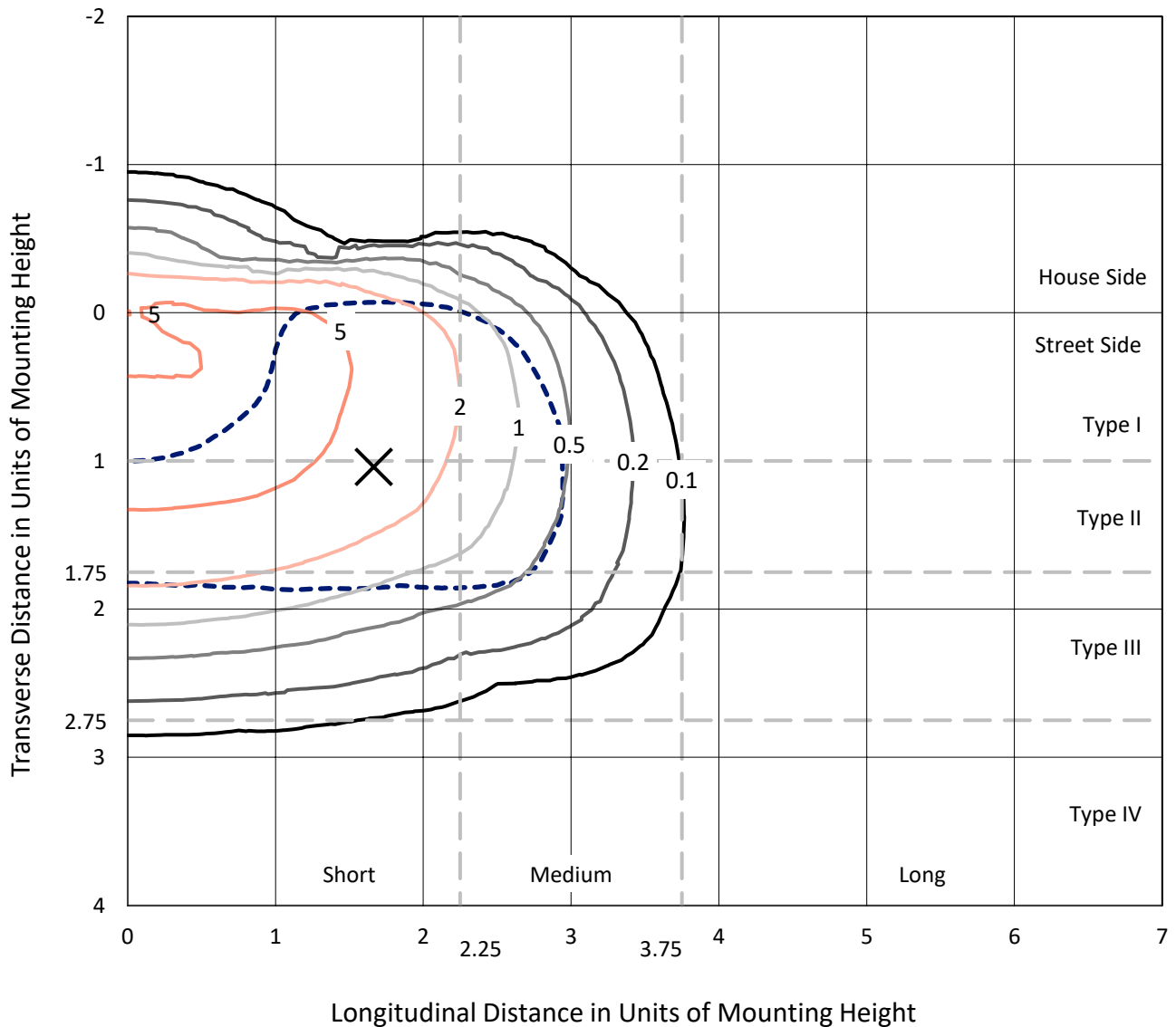
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647078
 CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

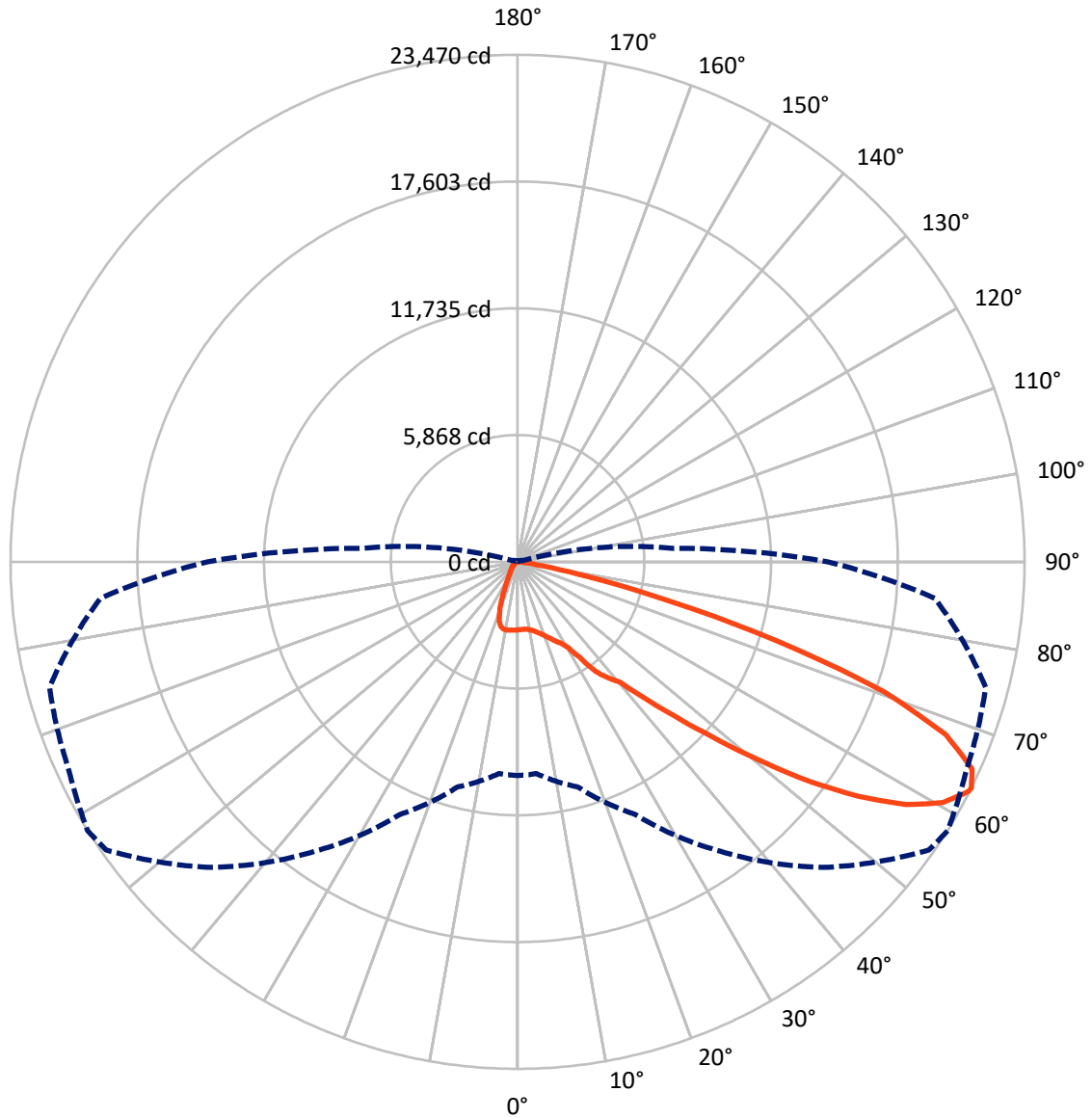
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

REPORT NUMBER: P647078
CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P647078
 CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

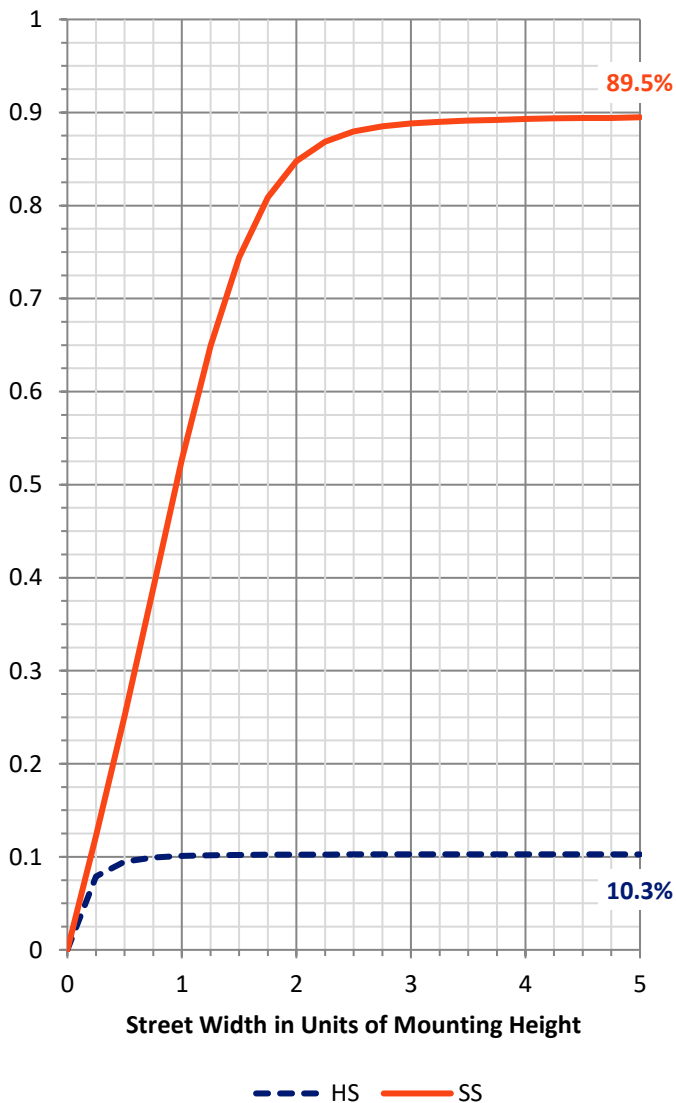
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2914.8	0.0	2914.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25235.6	0.0	25235.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	28150.4	0.0	28150.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.0
10°-20°	803.6	2.9
20°-30°	1394.6	5.0
30°-40°	2562.7	9.1
40°-50°	4824.3	17.1
50°-60°	8251.6	29.3
60°-70°	7900.9	28.1
70°-80°	2014.7	7.2
80°-90°	103.0	0.4
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°	28150.4	100.0
0°-180°	28150.4	100.0

Coefficient of Utilization



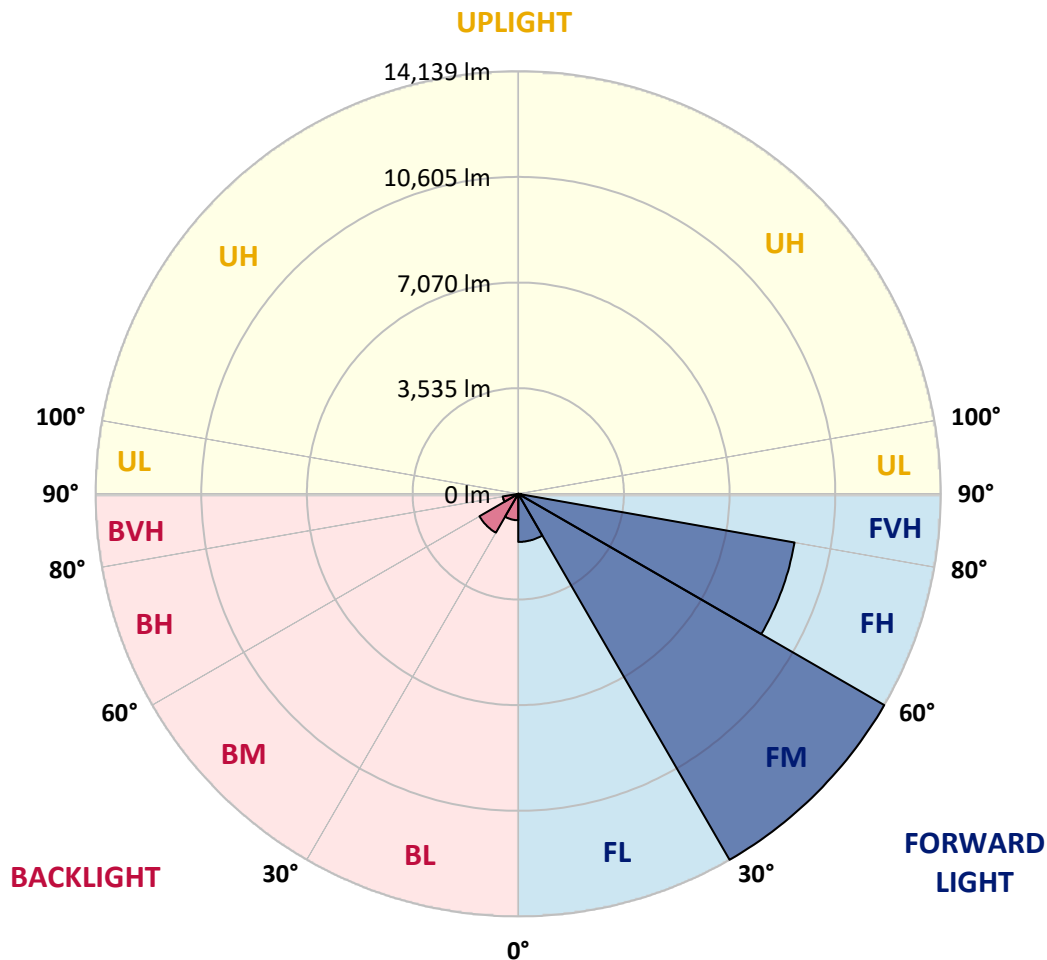
REPORT NUMBER: P647078
 CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.2	5.7			
FM (30°-60°)	14139.4	50.2			
FH (60°-80°)	9388.0	33.3			G4/12000
FVH (80°-90°)	99.0	0.4			G1/100
BL (0°-30°)	884.0	3.1	B2/1000		
BM (30°-60°)	1499.2	5.3	B2/2500		
BH (60°-80°)	527.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P647078

CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6
2.5°	3073.1	3083.7	3094.3	3098.6	3113.4	3128.2	3138.8	3136.7	3153.7	3162.1	3162.1
5°	2950.2	2950.2	2977.7	3003.2	3045.6	3088.0	3128.2	3136.7	3168.5	3198.2	3208.7
7.5°	2846.4	2852.7	2873.9	2920.5	2977.7	3051.9	3132.5	3151.6	3206.6	3272.4	3299.9
10°	2797.6	2801.8	2829.4	2878.2	2950.2	3051.9	3164.3	3200.3	3285.1	3388.9	3427.0
12.5°	2787.0	2793.4	2820.9	2876.0	2958.6	3081.6	3234.2	3272.4	3395.2	3528.8	3586.1
15°	2806.1	2810.3	2837.9	2897.3	2988.3	3134.6	3327.4	3380.4	3526.7	3681.4	3755.6
17.5°	2873.9	2869.7	2888.7	2937.5	3039.2	3200.3	3439.8	3503.4	3675.0	3887.0	3935.7
20°	3162.1	3134.6	3117.7	3075.2	3115.6	3293.5	3575.4	3668.7	3880.6	4096.8	4130.7
22.5°	3783.1	3721.7	3600.9	3435.6	3308.4	3420.7	3738.6	3846.7	4120.1	4332.0	4332.0
25°	4573.7	4495.3	4374.5	4014.1	3702.6	3630.5	3923.0	4058.7	4380.8	4594.9	4525.0
27.5°	5563.4	5502.0	5266.7	4847.1	4370.2	3997.2	4137.1	4262.1	4611.8	4870.4	4724.2
30°	6368.8	6339.1	6146.2	5771.1	5245.6	4700.8	4535.5	4618.1	4919.1	5218.0	5067.5
32.5°	7049.1	7049.1	6852.0	6502.3	6010.6	5527.4	5211.6	5270.9	5559.2	5904.7	5624.9
35°	7797.3	7771.8	7612.9	7280.2	6729.1	6303.1	6173.8	6254.4	6515.0	6771.5	6082.7
37.5°	8583.6	8575.1	8409.8	8087.6	7638.3	7102.1	6799.0	6820.2	6953.7	7110.6	6618.9
40°	9437.7	9450.4	9234.2	9035.0	8611.1	8062.2	7481.5	7348.0	7473.0	7916.0	7608.6
42.5°	10446.6	10416.9	10323.6	10052.3	9711.1	9382.6	8685.3	8636.6	8746.7	9221.5	8888.8
45°	11618.5	11660.9	11499.8	11349.4	11120.5	10847.1	10264.3	10179.5	10300.3	11037.9	10565.2
47.5°	12792.7	12752.4	12856.3	12828.8	12951.7	12748.2	12233.2	12059.4	12349.7	13049.2	12354.0
50°	13687.1	13731.6	13947.7	14263.6	14791.3	14905.7	14411.9	14352.5	14481.9	14931.2	13954.2
52.5°	14267.8	14416.1	14755.2	15567.0	16518.6	17258.3	16883.1	16851.3	16798.4	16919.1	15484.4
55°	14647.2	14797.7	15240.6	16436.0	18074.2	19276.0	19295.0	19159.4	18809.7	18722.8	16914.9
57.5°	14414.0	14443.7	15075.3	16673.4	18936.9	20715.0	21338.2	21202.5	20556.1	20227.6	18178.1
60°	12955.9	13017.4	13896.9	15774.7	18561.7	21185.6	22692.4	22631.0	21923.1	21552.2	19161.5
62.5°	10372.3	10550.4	11455.4	13549.3	16817.4	20392.8	23241.3	23415.1	22864.1	22353.3	19470.9
63°	9897.6	9840.4	10796.2	12900.8	16355.4	20000.8	23249.9	23470.3	22906.5	22429.6	19386.1
65°	7326.8	7498.4	8119.4	10173.1	13610.8	18176.0	22726.3	23116.3	22749.7	22092.7	18447.2
67.5°	4113.7	4105.3	4792.0	6657.1	9526.7	14257.2	20549.7	21374.2	21297.8	19824.9	15291.4
70°	2013.4	2045.2	2327.1	3450.4	5525.2	9836.1	17076.0	17966.2	17993.7	15571.2	10573.7
72.5°	911.3	926.2	1127.5	1680.7	2840.0	5237.0	11766.9	12616.8	12460.0	9923.0	5838.9
75°	481.1	512.9	621.0	845.6	1369.2	2159.7	6400.6	7222.9	6894.4	4533.4	2149.1
77.5°	356.0	366.7	421.7	538.3	733.3	841.4	2761.6	3285.1	3077.3	1640.4	712.1
80°	260.7	269.2	313.7	381.5	462.0	428.1	1040.6	1193.2	1070.3	557.4	218.3
82.5°	158.9	161.1	228.9	284.0	290.3	239.5	343.3	368.8	385.7	313.7	118.7
85°	57.2	72.0	154.7	205.6	171.6	120.8	144.2	158.9	173.8	199.2	69.9
87.5°	6.3	8.5	74.2	99.6	48.8	44.5	53.0	59.4	63.6	74.2	33.9
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: P647078

CATALOG NUMBER: GALN-SA7C-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6
2.5°	3170.6	3179.1	3172.7	3162.1	3160.0	3153.7	3140.9	3140.9	3140.9	3145.2	3140.9
5°	3217.3	3223.6	3208.7	3187.6	3164.3	3134.6	3102.8	3083.7	3081.6	3077.3	3066.8
7.5°	3306.3	3314.8	3280.8	3230.0	3166.4	3094.3	3026.5	2963.0	2933.3	2909.9	2909.9
10°	3435.6	3444.0	3376.2	3285.1	3157.9	3011.7	2850.6	2704.3	2589.9	2536.9	2524.2
12.5°	3590.3	3594.5	3482.2	3323.2	3113.4	2831.5	2488.1	2168.1	1945.6	1843.9	1833.3
15°	3759.8	3730.1	3581.8	3338.1	2986.2	2460.7	1867.2	1475.1	1244.1	1176.3	1201.7
17.5°	3931.5	3876.4	3658.1	3314.8	2700.1	1867.2	1254.7	1006.7	934.7	915.6	915.6
20°	4092.6	4016.2	3713.2	3213.0	2204.1	1286.5	930.4	871.1	858.3	845.6	847.8
22.5°	4253.6	4137.1	3761.9	2986.2	1642.5	919.8	833.0	813.9	796.9	779.9	777.8
25°	4410.5	4249.4	3781.0	2566.6	1119.1	790.5	760.8	735.4	701.5	682.5	678.2
27.5°	4573.7	4385.0	3768.3	2036.7	816.0	707.9	678.2	642.2	601.9	568.0	568.0
30°	4887.3	4643.6	3723.8	1464.5	686.7	623.1	585.0	527.7	483.2	449.3	447.2
32.5°	5315.5	4980.6	3571.2	1030.0	610.3	549.0	491.7	428.1	381.5	356.0	356.0
35°	5697.0	5319.7	3285.1	758.7	549.0	476.8	406.9	345.5	309.4	292.5	286.1
37.5°	6277.6	5815.7	2890.8	616.8	489.6	413.3	341.2	284.0	254.3	241.6	241.6
40°	7148.7	6421.8	2407.6	540.4	432.4	351.8	284.0	239.5	216.2	201.3	201.3
42.5°	8229.6	7163.6	1918.0	485.4	379.4	303.1	237.4	203.4	182.3	171.6	169.5
45°	9590.3	7945.6	1477.2	434.5	337.0	258.5	201.3	171.6	150.5	144.2	146.3
47.5°	11010.3	8634.5	1144.5	389.9	292.5	218.3	171.6	148.4	133.5	125.0	125.0
50°	12222.6	9109.2	869.0	339.1	258.5	184.4	150.5	133.5	120.8	116.6	114.5
52.5°	13235.7	9246.9	665.5	294.6	226.8	158.9	133.5	120.8	110.2	103.8	103.8
55°	14098.2	9126.1	521.4	248.0	190.7	137.7	118.7	108.1	95.4	89.0	86.9
57.5°	14602.6	8738.3	398.5	205.6	154.7	114.5	103.8	91.1	76.3	65.7	65.7
60°	14857.0	8174.5	305.2	169.5	118.7	91.1	84.8	67.8	53.0	44.5	42.4
62.5°	14551.8	7426.4	231.0	133.5	89.0	67.8	57.2	48.8	33.9	25.4	25.4
63°	14363.2	7210.2	222.5	127.2	82.7	63.6	53.0	44.5	29.7	23.3	21.2
65°	13093.6	6267.1	182.3	101.7	65.7	44.5	36.0	31.8	21.2	10.6	8.5
67.5°	10397.8	4794.1	144.2	76.3	46.6	31.8	21.2	19.1	6.3	0.0	0.0
70°	7030.1	3096.5	112.4	55.1	31.8	19.1	10.6	8.5	2.1	0.0	0.0
72.5°	3666.6	1587.5	86.9	40.2	19.1	12.7	6.3	2.1	0.0	0.0	0.0
75°	1297.0	540.4	63.6	25.4	12.7	6.3	2.1	0.0	0.0	0.0	0.0
77.5°	392.1	201.3	40.2	19.1	8.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	137.7	74.2	23.3	12.7	6.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	67.8	36.0	14.8	10.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.1	23.3	12.7	10.6	6.3	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	17.0	12.7	10.6	8.5	4.2	2.1	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)