

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: P651478

Luminaire Tested: **GALN-SA6D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651478
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-SA6D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 28324 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

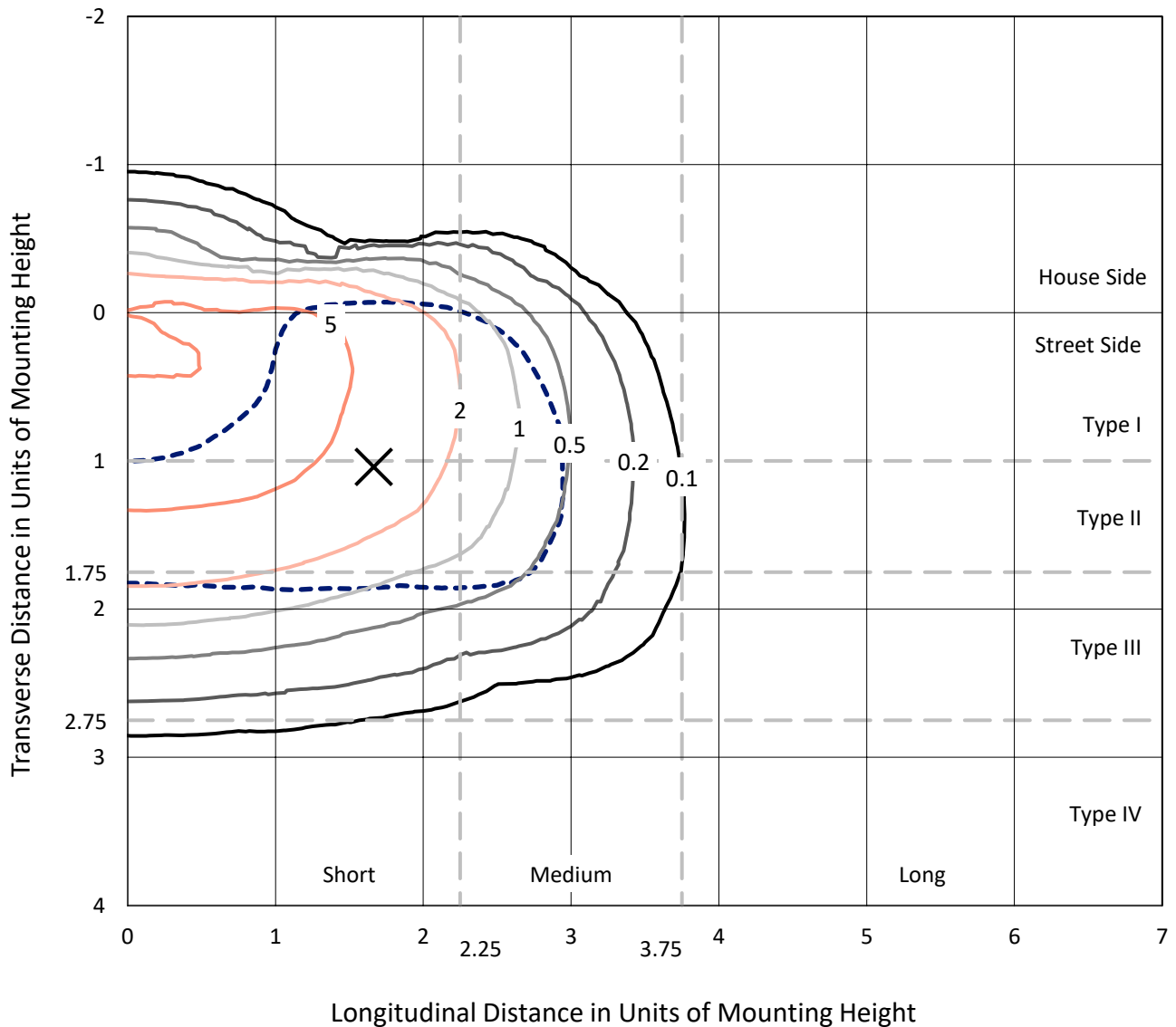
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651478
 CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

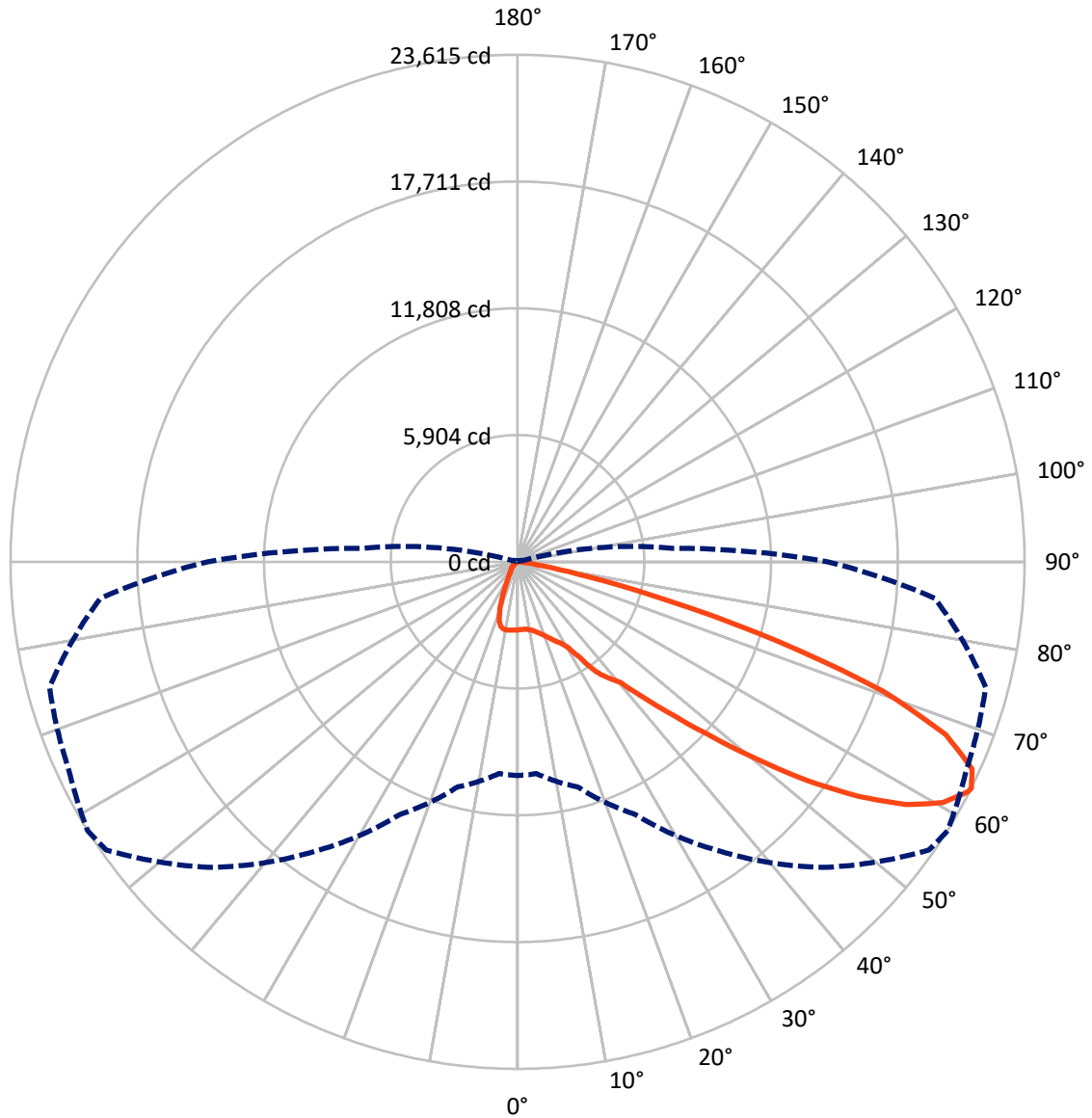
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P651478
CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651478
 CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

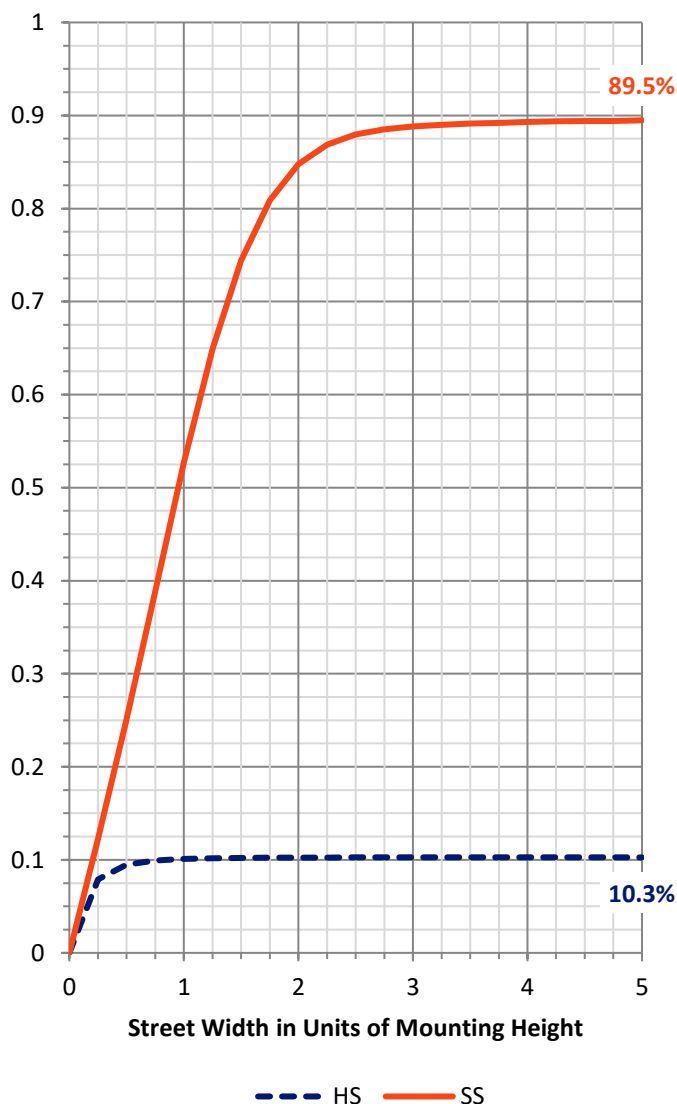
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.8	0.0	2932.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25391.3	0.0	25391.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	28324.0	0.0	28324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	1.0
10°-20°	808.5	2.9
20°-30°	1403.2	5.0
30°-40°	2578.5	9.1
40°-50°	4854.0	17.1
50°-60°	8302.5	29.3
60°-70°	7949.6	28.1
70°-80°	2027.2	7.2
80°-90°	103.7	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°	28324.0	100.0
0°-180°	28324.0	100.0

Coefficient of Utilization

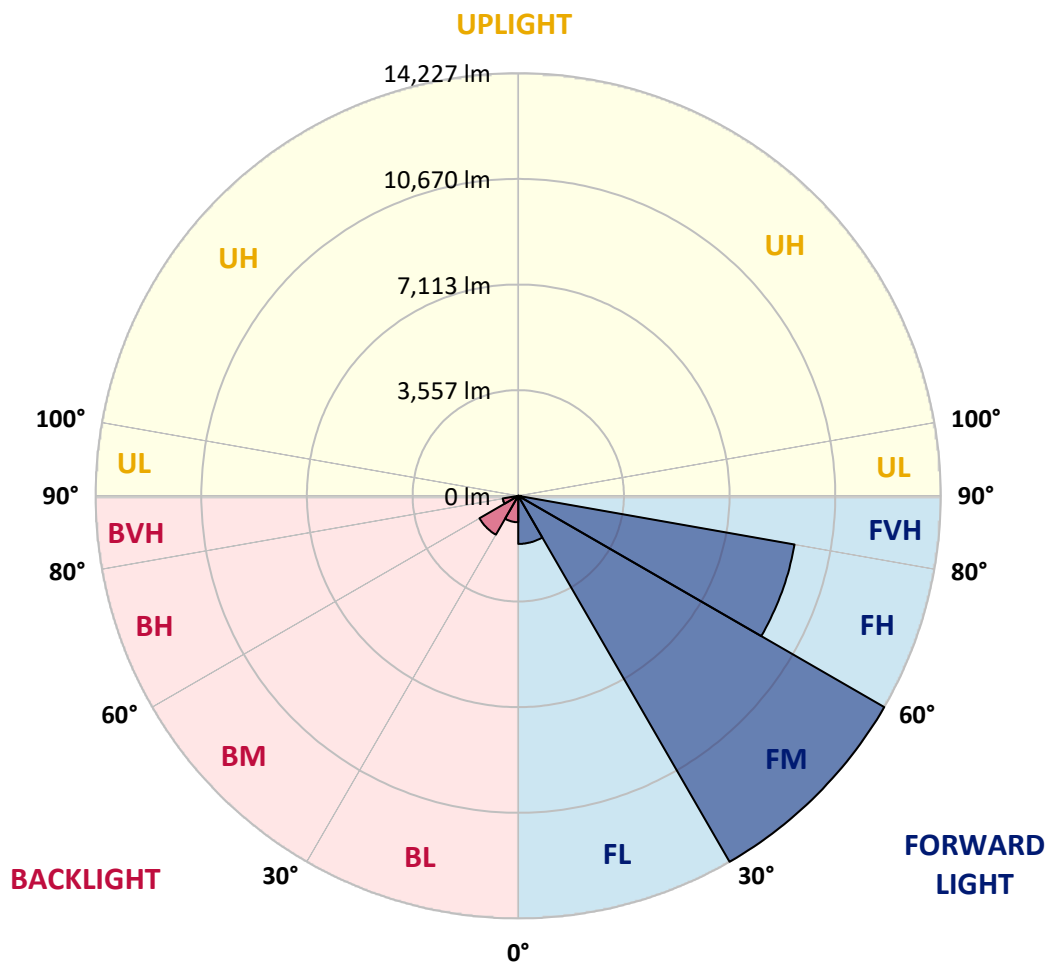


REPORT NUMBER: P651478
 CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.1	5.7			
FM (30°-60°)	14226.6	50.2			
FH (60°-80°)	9445.9	33.3			G4/12000
FVH (80°-90°)	99.6	0.4			G1/100
BL (0°-30°)	889.4	3.1	B2/1000		
BM (30°-60°)	1508.5	5.3	B2/2500		
BH (60°-80°)	530.9	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: P651478

CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0
2.5°	3092.1	3102.8	3113.4	3117.7	3132.6	3147.5	3158.2	3156.0	3173.1	3181.7	3181.7
5°	2968.4	2968.4	2996.1	3021.7	3064.4	3107.0	3147.5	3156.0	3188.1	3217.9	3228.6
7.5°	2863.9	2870.3	2891.6	2938.5	2996.1	3070.7	3151.8	3171.0	3226.4	3292.5	3320.3
10°	2814.8	2819.1	2846.9	2895.9	2968.4	3070.7	3183.8	3220.0	3305.3	3409.8	3448.2
12.5°	2804.2	2810.6	2838.3	2893.8	2977.0	3100.6	3254.2	3292.5	3416.2	3550.5	3608.1
15°	2823.4	2827.7	2855.4	2915.1	3006.8	3153.9	3348.0	3401.3	3548.4	3704.1	3778.8
17.5°	2891.6	2887.4	2906.6	2955.6	3058.0	3220.0	3461.0	3525.0	3697.7	3911.0	3960.0
20°	3181.7	3153.9	3136.8	3094.2	3134.7	3313.9	3597.5	3691.3	3904.6	4122.1	4156.2
22.5°	3806.5	3744.6	3623.0	3456.8	3328.8	3441.8	3761.7	3870.5	4145.5	4358.7	4358.7
25°	4601.9	4523.0	4401.5	4038.9	3725.5	3652.9	3947.2	4083.6	4407.8	4623.2	4552.8
27.5°	5597.8	5535.9	5299.2	4877.0	4397.2	4021.8	4162.6	4288.4	4640.2	4900.4	4753.2
30°	6408.1	6378.2	6184.2	5806.7	5277.9	4729.8	4563.5	4646.7	4949.5	5250.1	5098.7
32.5°	7092.6	7092.6	6894.3	6542.4	6047.7	5561.4	5243.7	5303.4	5593.5	5941.1	5659.6
35°	7845.4	7819.8	7659.8	7325.0	6770.6	6342.0	6211.9	6293.0	6555.3	6813.3	6120.2
37.5°	8636.5	8628.0	8461.6	8137.5	7685.4	7145.9	6840.9	6862.3	6996.6	7154.5	6659.7
40°	9495.9	9508.7	9291.2	9090.7	8664.2	8111.9	7527.6	7393.3	7519.1	7964.8	7655.5
42.5°	10511.0	10481.1	10387.3	10114.3	9771.0	9440.5	8738.8	8689.8	8800.7	9278.4	8943.6
45°	11690.2	11732.9	11570.8	11419.4	11189.1	10914.0	10327.6	10242.3	10363.8	11105.9	10630.4
47.5°	12871.6	12831.1	12935.6	12907.8	13031.5	12826.8	12308.6	12133.8	12425.9	13129.6	12430.1
50°	13771.5	13816.3	14033.8	14351.5	14882.5	14997.6	14500.8	14441.1	14571.2	15023.3	14040.2
52.5°	14355.8	14505.1	14846.3	15663.0	16620.5	17364.7	16987.3	16955.3	16902.0	17023.5	15579.9
55°	14737.5	14888.9	15334.6	16537.3	18185.7	19394.8	19414.1	19277.6	18925.7	18838.2	17019.2
57.5°	14503.0	14532.8	15168.3	16776.2	19053.6	20842.8	21469.7	21333.2	20682.9	20352.3	18290.2
60°	13035.8	13097.6	13982.6	15872.0	18676.2	21316.2	22832.4	22770.5	22058.3	21685.1	19279.7
62.5°	10436.3	10615.4	11526.0	13632.9	16921.2	20518.6	23384.7	23559.5	23005.1	22491.2	19591.0
63°	9958.6	9901.1	10862.8	12980.3	16456.3	20124.1	23393.3	23615.0	23047.8	22568.0	19505.7
65°	7372.0	7544.7	8169.5	10235.9	13694.8	18288.0	22866.5	23258.9	22889.9	22228.9	18561.0
67.5°	4139.1	4130.6	4821.5	6698.1	9585.5	14345.1	20676.5	21506.0	21429.2	19947.2	15385.8
70°	2025.9	2057.8	2341.4	3471.6	5559.3	9896.8	17181.3	18077.0	18104.7	15667.2	10638.9
72.5°	916.9	931.9	1134.5	1691.1	2857.5	5269.4	11839.5	12694.6	12536.8	9984.3	5875.0
75°	484.1	516.0	624.8	850.8	1377.6	2173.0	6440.0	7267.5	6936.9	4561.3	2162.3
77.5°	358.3	368.9	424.4	541.7	737.8	846.6	2778.6	3305.3	3096.3	1650.5	716.5
80°	262.3	270.8	315.6	383.8	464.9	430.8	1047.0	1200.6	1076.9	560.9	219.7
82.5°	160.0	162.1	230.3	285.8	292.2	240.9	345.5	371.0	388.1	315.6	119.4
85°	57.6	72.5	155.7	206.9	172.7	121.5	145.0	160.0	174.8	200.5	70.4
87.5°	6.4	8.5	74.6	100.2	49.0	44.7	53.3	59.7	64.0	74.6	34.1
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: P651478
 CATALOG NUMBER: GALN-SA6D-840-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0
2.5°	3190.2	3198.7	3192.4	3181.7	3179.5	3173.1	3160.3	3160.3	3160.3	3164.6	3160.3
5°	3237.1	3243.5	3228.6	3207.2	3183.8	3153.9	3122.0	3102.8	3100.6	3096.3	3085.7
7.5°	3326.7	3335.2	3301.1	3249.9	3185.9	3113.4	3045.2	2981.2	2951.3	2927.9	2927.9
10°	3456.8	3465.3	3397.1	3305.3	3177.4	3030.2	2868.1	2721.1	2605.9	2552.6	2539.7
12.5°	3612.4	3616.6	3503.7	3343.7	3132.6	2849.0	2503.5	2181.6	1957.6	1855.2	1844.6
15°	3783.0	3753.1	3603.9	3358.6	3004.6	2475.8	1878.7	1484.2	1251.7	1183.5	1209.1
17.5°	3955.7	3900.3	3680.6	3335.2	2716.8	1878.7	1262.4	1012.9	940.4	921.2	921.2
20°	4117.8	4041.0	3736.1	3232.8	2217.8	1294.4	936.1	876.4	863.6	850.8	853.0
22.5°	4279.8	4162.6	3785.2	3004.6	1652.6	925.5	838.1	818.9	801.8	784.7	782.6
25°	4437.7	4275.6	3804.3	2582.5	1125.9	795.4	765.6	740.0	705.9	686.7	682.4
27.5°	4601.9	4412.1	3791.6	2049.3	821.0	712.2	682.4	646.1	605.6	571.5	571.5
30°	4917.5	4672.3	3746.7	1473.5	690.9	627.0	588.5	531.0	486.2	452.1	449.9
32.5°	5348.3	5011.4	3593.3	1036.4	614.2	552.3	494.8	430.8	383.8	358.3	358.3
35°	5732.1	5352.5	3305.3	763.5	552.3	479.8	409.4	347.6	311.3	294.3	287.9
37.5°	6316.4	5851.5	2908.7	620.6	492.6	415.8	343.3	285.8	255.9	243.1	243.1
40°	7192.8	6461.4	2422.5	543.8	435.0	354.0	285.8	240.9	217.5	202.6	202.6
42.5°	8280.4	7207.8	1929.9	488.4	381.7	304.9	238.8	204.7	183.4	172.7	170.6
45°	9649.5	7994.6	1486.3	437.2	339.1	260.1	202.6	172.7	151.4	145.0	147.2
47.5°	11078.2	8687.7	1151.5	392.4	294.3	219.7	172.7	149.3	134.3	125.8	125.8
50°	12297.9	9165.4	874.3	341.2	260.1	185.5	151.4	134.3	121.5	117.3	115.1
52.5°	13317.3	9304.0	669.6	296.5	228.2	160.0	134.3	121.5	110.9	104.5	104.5
55°	14185.2	9182.5	524.6	249.5	191.9	138.6	119.4	108.7	96.0	89.6	87.5
57.5°	14692.7	8792.2	400.9	206.9	155.7	115.1	104.5	91.7	76.8	66.1	66.1
60°	14948.6	8225.0	307.0	170.6	119.4	91.7	85.3	68.2	53.3	44.7	42.6
62.5°	14641.6	7472.2	232.5	134.3	89.6	68.2	57.6	49.0	34.1	25.6	25.6
63°	14451.7	7254.6	223.9	127.9	83.2	64.0	53.3	44.7	29.9	23.5	21.4
65°	13174.4	6305.7	183.4	102.3	66.1	44.7	36.2	32.0	21.4	10.7	8.5
67.5°	10461.9	4823.6	145.0	76.8	46.9	32.0	21.4	19.2	6.4	0.0	0.0
70°	7073.4	3115.6	113.0	55.4	32.0	19.2	10.7	8.5	2.1	0.0	0.0
72.5°	3689.2	1597.2	87.5	40.5	19.2	12.8	6.4	2.1	0.0	0.0	0.0
75°	1305.1	543.8	64.0	25.6	12.8	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	394.5	202.6	40.5	19.2	8.5	4.3	0.0	0.0	0.0	0.0	0.0
80°	138.6	74.6	23.5	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.2	36.2	14.9	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.3	23.5	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	27.8	17.1	12.8	10.7	8.5	4.3	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)