

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: P650880

Luminaire Tested: **GALN-SA4C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23338.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

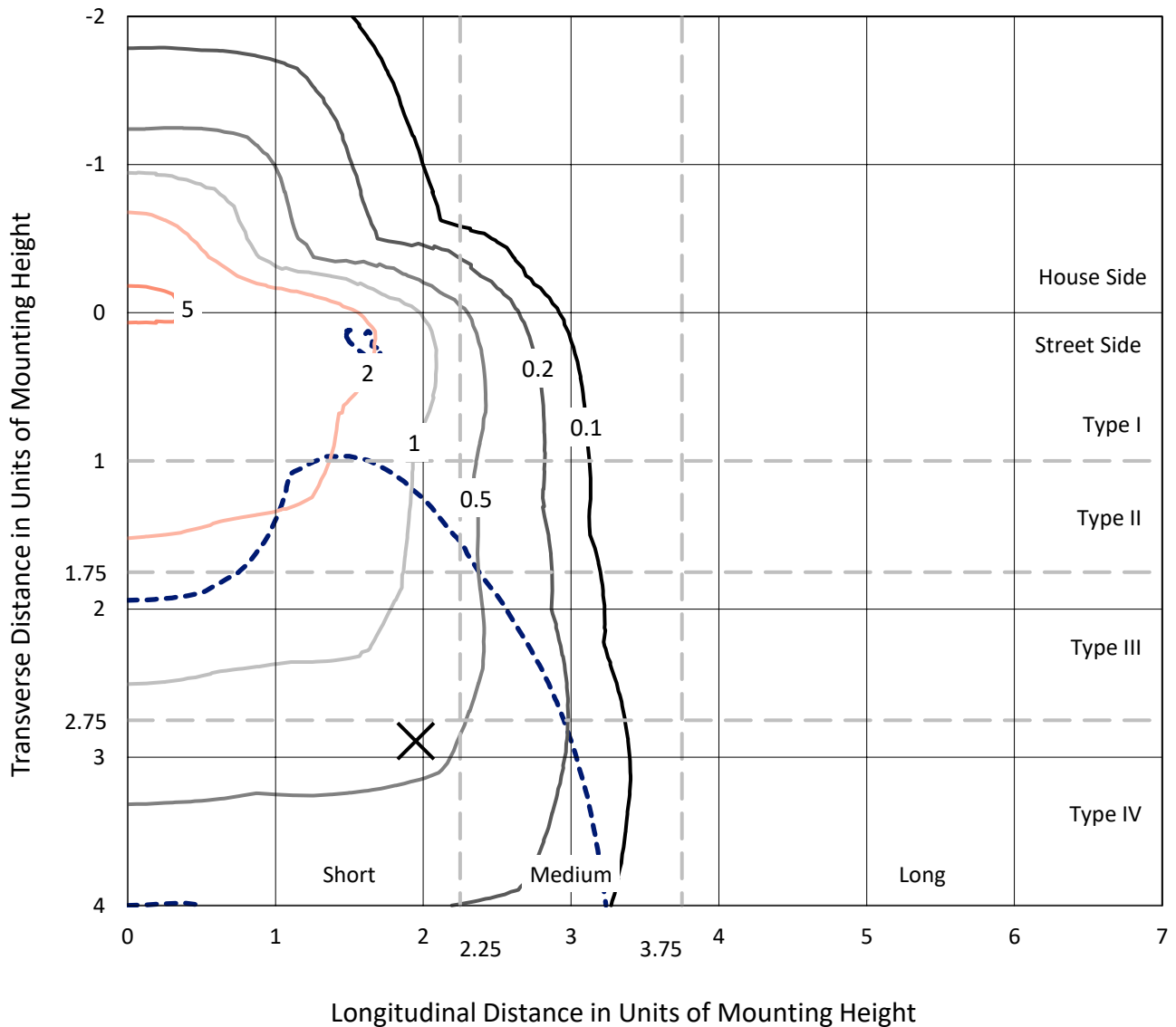
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650880
 CATALOG NUMBER: GALN-SA4C-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

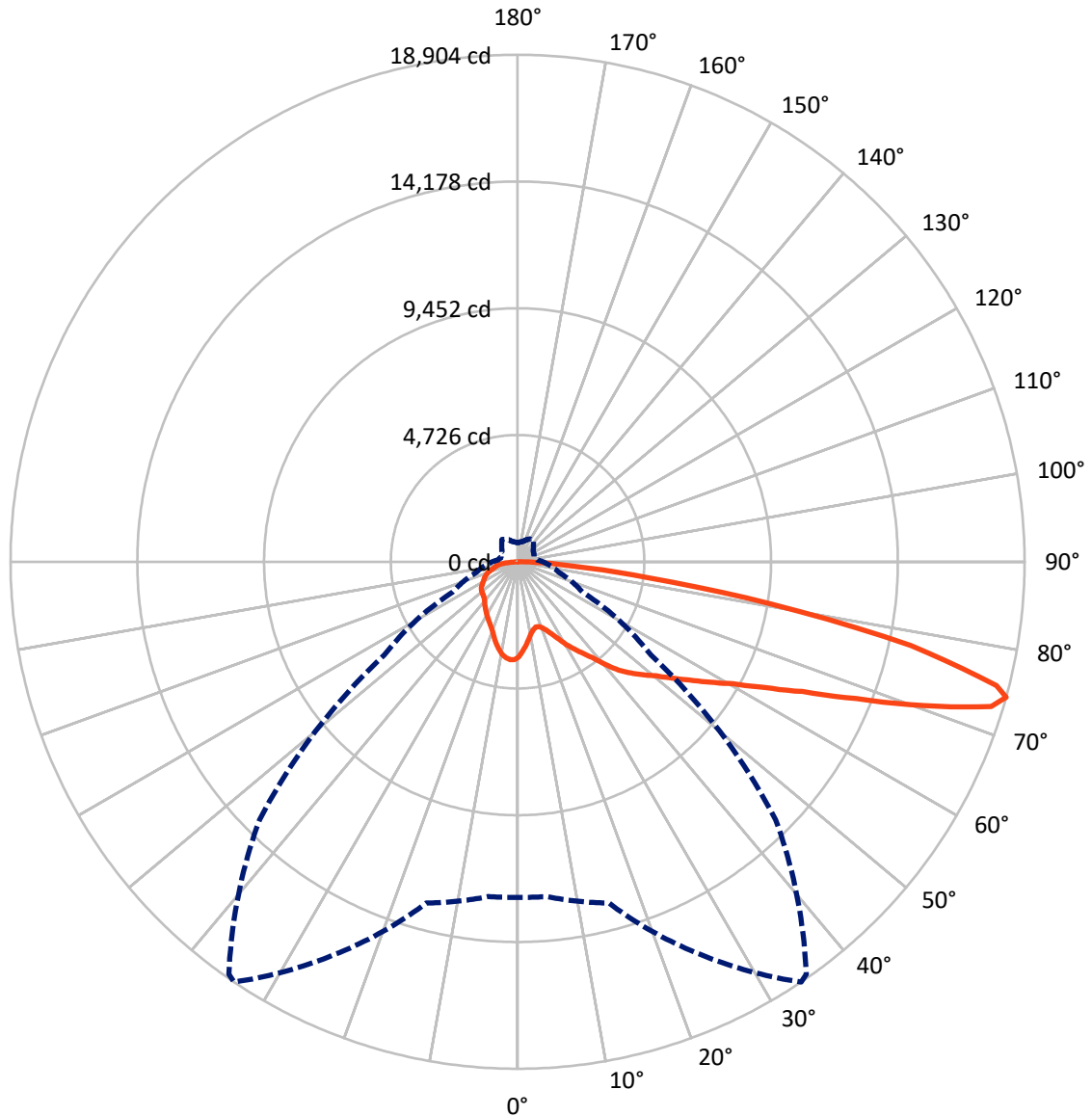
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P650880
CATALOG NUMBER: GALN-SA4C-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P650880
 CATALOG NUMBER: GALN-SA4C-840-U-T4FT

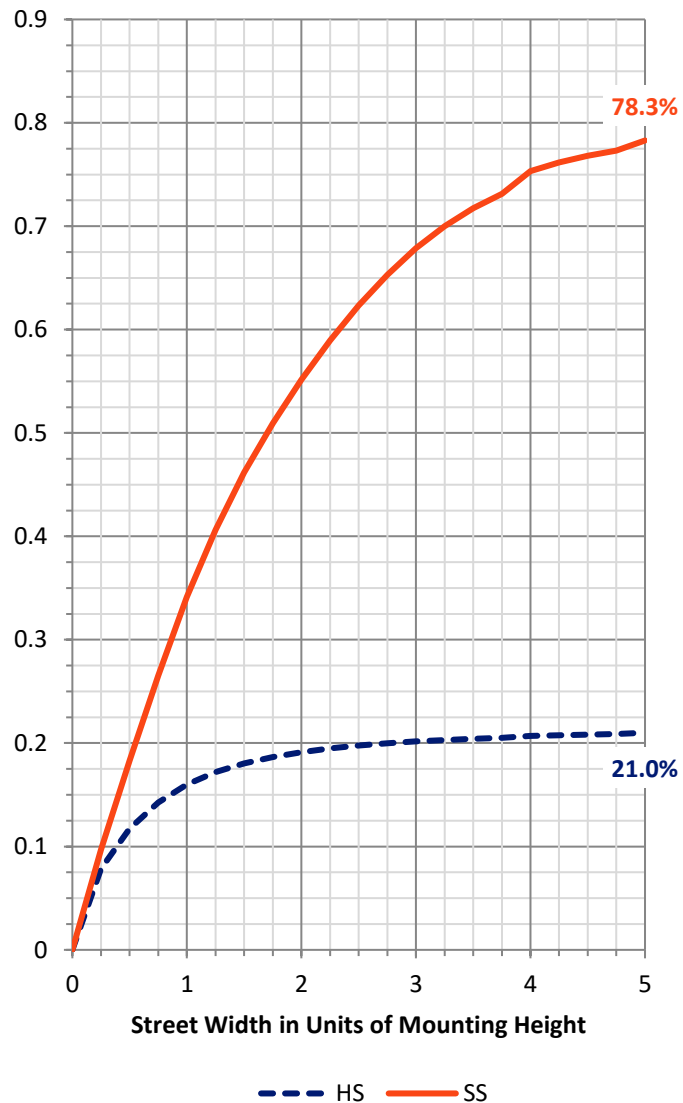
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4966.6	0.0	4966.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	18372.0	0.0	18372.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	23338.6	0.0	23338.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.4
10°-20°	887.1	3.8
20°-30°	1462.6	6.3
30°-40°	2190.9	9.4
40°-50°	3184.9	13.6
50°-60°	4448.6	19.1
60°-70°	5569.4	23.9
70°-80°	4605.5	19.7
80°-90°	665.5	2.9
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°	23338.6	100.0
0°-180°	23338.6	100.0

Coefficient of Utilization

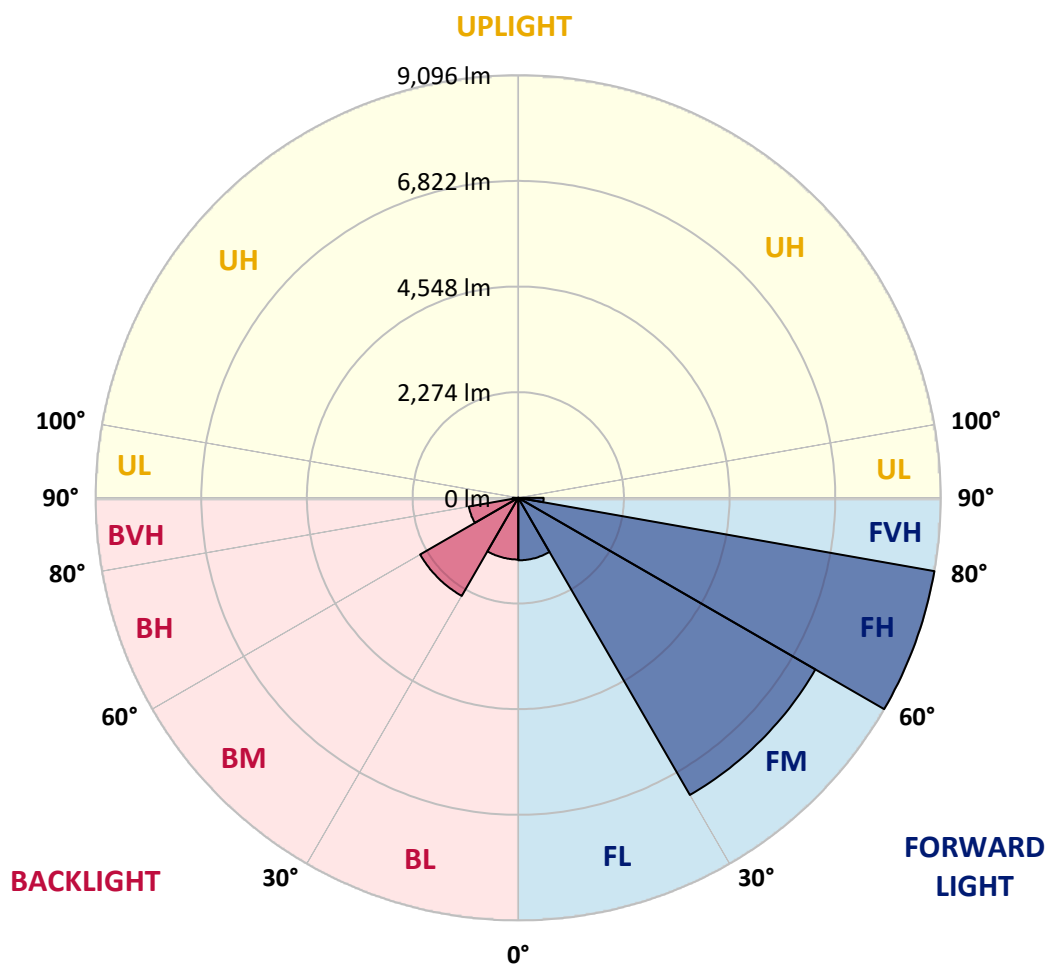


REPORT NUMBER: P650880
 CATALOG NUMBER: GALN-SA4C-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.4	5.8			
FM (30°-60°)	7385.3	31.6			
FH (60°-80°)	9096.2	39.0			G4/12000
FVH (80°-90°)	545.2	2.3			G4/750
BL (0°-30°)	1328.5	5.7	B3/2500		
BM (30°-60°)	2439.1	10.5	B2/2500		
BH (60°-80°)	1078.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





REPORT NUMBER: P650880

CATALOG NUMBER: GALN-SA4C-840-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3
2.5°	3293.1	3309.9	3319.0	3351.3	3359.0	3369.4	3396.5	3432.8	3479.3	3520.7	3556.8
5°	3019.0	3044.8	3060.4	3088.8	3144.4	3149.6	3222.0	3304.8	3399.2	3487.0	3559.4
7.5°	2759.2	2787.6	2800.5	2852.3	2925.9	2937.5	3043.6	3174.2	3331.9	3465.1	3576.3
10°	2563.9	2578.1	2606.6	2645.4	2733.2	2741.1	2879.4	3053.9	3258.2	3454.7	3604.7
12.5°	2457.9	2465.6	2472.1	2513.5	2600.1	2611.7	2756.5	2954.3	3200.0	3462.5	3651.3
15°	2473.4	2476.0	2447.6	2455.3	2525.1	2541.9	2685.4	2888.4	3163.8	3481.9	3721.1
17.5°	2604.0	2594.9	2525.1	2488.9	2538.1	2545.8	2671.2	2862.6	3147.0	3518.1	3793.5
20°	2809.5	2796.7	2676.4	2596.3	2624.7	2631.2	2717.8	2881.9	3163.8	3577.5	3905.9
22.5°	3065.5	3060.4	2878.1	2781.1	2779.8	2779.8	2825.1	2951.7	3214.2	3659.0	4023.6
25°	3423.7	3396.5	3158.6	3033.2	2998.3	2995.7	2990.6	3066.9	3278.9	3745.6	4163.3
27.5°	3790.9	3744.4	3532.3	3339.7	3264.7	3255.6	3222.0	3229.8	3361.6	3843.9	4322.3
30°	4120.6	4090.9	3891.7	3678.4	3589.2	3568.5	3475.4	3432.8	3500.0	4021.1	4575.7
32.5°	4372.7	4354.6	4199.4	4005.5	3873.6	3869.8	3734.0	3699.1	3715.9	4235.7	4865.4
35°	4577.0	4583.4	4504.6	4336.5	4185.2	4163.3	4072.8	4028.8	3979.7	4545.9	5229.9
37.5°	4856.3	4870.5	4865.4	4720.5	4535.6	4540.8	4520.1	4447.7	4317.1	4892.5	5634.6
40°	5164.0	5174.3	5173.1	5117.5	5020.5	5025.6	5017.9	4935.2	4739.9	5333.4	6084.6
42.5°	5589.4	5540.3	5412.3	5467.8	5524.7	5549.3	5602.3	5523.4	5255.8	5804.0	6507.4
45°	6065.2	5972.1	5682.5	5708.3	5919.0	5965.6	6257.8	6149.2	5815.7	6344.4	7005.1
47.5°	6365.1	6273.4	6029.0	6023.8	6303.0	6348.4	6865.5	6825.4	6325.1	6927.6	7612.8
50°	6632.8	6619.8	6344.4	6410.4	6683.2	6750.5	7527.5	7490.0	6833.2	7615.4	8274.9
52.5°	7029.8	6925.0	6705.2	6840.9	7201.7	7289.6	8184.3	8074.4	7300.0	8223.1	8917.4
55°	7208.1	7183.6	7170.6	7288.3	7783.5	7846.9	8823.0	8570.9	7698.2	8737.7	9406.2
57.5°	7685.2	7640.0	7768.0	7848.1	8468.8	8565.8	9490.2	9089.4	8047.3	9146.3	9644.0
60°	8303.3	8278.7	8396.4	8541.2	9234.2	9381.6	10250.4	9531.6	8327.8	9351.8	9513.5
62.5°	9226.4	9223.8	9201.9	9512.1	10319.0	10454.7	11123.2	9962.1	8371.8	9197.9	8838.6
65°	10550.3	10503.8	10312.5	10651.3	11668.8	11827.8	12032.1	10202.6	8106.7	8408.0	7442.2
67.5°	11935.1	11932.5	11777.4	12217.0	13606.9	13771.1	13168.6	10149.6	7371.0	6811.2	5285.5
70°	13083.3	13027.7	13225.5	14396.9	16082.9	16272.9	14162.9	9525.1	5871.3	4498.2	3140.5
72.5°	13358.6	13361.2	13772.4	16077.7	18460.6	18490.3	14521.0	7720.1	3929.2	2481.1	1570.9
74°	12510.5	12532.5	13169.9	16161.7	18904.1	18769.6	13605.6	6067.7	2657.0	1620.0	1132.6
75°	11419.3	11280.9	12202.7	15601.9	18443.8	18299.0	12533.8	4869.2	2027.3	1294.2	991.7
77.5°	6105.2	6246.2	7668.4	11642.9	14983.8	14817.1	8498.5	2335.0	1095.2	901.2	713.7
80°	2173.4	2397.1	3369.4	6092.4	9606.6	9658.3	4056.0	1070.6	770.6	664.6	504.3
82.5°	886.9	911.6	1446.8	2703.6	4878.2	4924.8	1656.3	636.1	550.8	457.7	301.2
85°	346.5	356.8	640.0	1215.3	2081.6	2217.4	572.8	336.1	338.8	262.5	153.8
87.5°	116.4	131.9	262.5	404.7	707.2	693.0	166.8	99.6	121.5	113.8	47.9
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: P650880
 CATALOG NUMBER: GALN-SA4C-840-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3	3563.3
2.5°	3575.0	3599.6	3616.4	3634.5	3651.3	3656.4	3652.5	3664.2	3665.5	3666.8	3668.1
5°	3595.7	3629.3	3661.6	3679.7	3687.4	3681.0	3659.0	3647.4	3637.1	3629.3	3631.9
7.5°	3624.1	3672.0	3701.7	3709.5	3688.8	3659.0	3604.7	3562.1	3534.9	3516.8	3515.5
10°	3668.1	3714.6	3739.2	3717.2	3660.3	3587.9	3502.6	3422.4	3361.6	3343.6	3342.2
12.5°	3723.7	3776.7	3775.4	3710.7	3611.2	3481.9	3343.6	3250.5	3167.7	3126.3	3143.2
15°	3796.1	3836.1	3798.6	3682.3	3524.5	3347.4	3176.8	3050.1	2957.0	2913.0	2915.6
17.5°	3880.1	3915.0	3815.4	3631.9	3403.0	3175.4	2977.6	2857.4	2783.7	2751.4	2748.8
20°	3984.8	3995.2	3815.4	3544.0	3246.6	2975.0	2786.3	2702.2	2660.8	2644.0	2649.2
22.5°	4097.4	4076.7	3794.8	3419.8	3041.0	2765.6	2638.9	2601.4	2580.7	2578.1	2580.7
25°	4224.0	4165.8	3752.1	3251.7	2826.3	2584.6	2510.9	2517.4	2521.2	2521.2	2530.3
27.5°	4379.2	4262.9	3681.0	3039.7	2575.6	2416.5	2395.8	2441.1	2461.8	2465.6	2472.1
30°	4583.4	4368.8	3563.3	2774.6	2362.2	2265.2	2301.4	2362.2	2385.5	2399.7	2397.1
32.5°	4826.6	4485.2	3404.3	2509.6	2190.2	2159.2	2203.2	2265.2	2291.1	2298.9	2288.5
35°	5112.3	4617.1	3194.9	2261.4	2040.3	2058.3	2110.1	2129.5	2152.7	2152.7	2157.9
37.5°	5420.0	4723.1	2938.9	2033.8	1923.9	1989.8	2027.3	2009.2	1998.9	1985.9	1992.4
40°	5732.9	4801.9	2606.6	1808.8	1807.6	1918.7	1929.1	1877.4	1836.0	1823.0	1816.6
42.5°	6005.7	4851.1	2306.6	1634.3	1697.6	1848.9	1856.7	1773.9	1708.0	1669.2	1656.3
45°	6327.7	4908.0	2013.1	1489.5	1595.5	1793.3	1812.7	1701.5	1604.5	1523.1	1502.4
47.5°	6768.5	5037.3	1781.7	1377.0	1521.8	1758.4	1785.5	1642.1	1514.1	1408.0	1391.2
50°	7266.3	5214.5	1601.9	1300.7	1464.9	1727.3	1761.0	1581.2	1430.0	1312.3	1299.4
52.5°	7722.7	5310.1	1446.8	1232.1	1409.3	1670.5	1728.7	1537.3	1347.3	1216.7	1205.0
55°	7972.3	5154.9	1294.2	1165.0	1333.0	1596.8	1683.4	1476.5	1267.1	1166.2	1149.4
57.5°	8005.9	4834.3	1155.9	1092.5	1252.8	1506.3	1599.3	1402.9	1215.3	1131.3	1117.1
60°	7746.0	4355.9	1048.6	1033.1	1171.4	1404.1	1505.0	1338.2	1162.3	1092.5	1078.3
62.5°	7099.6	3836.1	973.5	978.8	1088.7	1296.8	1435.2	1276.1	1111.9	1049.9	1037.0
65°	5987.6	3166.4	901.2	923.2	1014.9	1212.8	1371.8	1224.4	1061.5	1017.5	1005.9
67.5°	4159.4	2285.9	841.7	865.0	945.1	1127.4	1298.1	1168.8	1004.6	981.4	963.3
70°	2302.7	1406.7	771.9	799.0	872.7	1031.7	1215.3	1084.8	921.9	911.6	885.7
72.5°	1210.2	896.0	693.0	722.8	774.5	909.0	1088.7	993.0	840.4	796.4	762.9
74°	945.1	734.4	640.0	671.0	705.9	836.5	1013.7	927.0	782.2	730.5	704.7
75°	823.6	654.2	594.8	634.9	665.9	787.4	955.5	880.5	749.9	700.8	677.5
77.5°	581.8	490.1	486.2	534.0	550.8	690.5	861.1	801.6	668.4	616.7	594.8
80°	408.6	367.2	385.3	415.0	438.3	610.2	799.0	693.0	548.2	487.4	479.7
82.5°	266.3	240.5	275.4	302.5	310.3	449.9	645.2	526.2	399.6	324.5	301.2
85°	122.9	120.3	157.8	153.8	152.6	219.8	382.7	307.7	230.2	172.0	161.6
87.5°	31.0	29.8	38.8	32.3	38.8	33.6	34.9	9.1	1.3	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)