

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: P940597

Luminaire Tested: **GALN-SB3D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28339 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

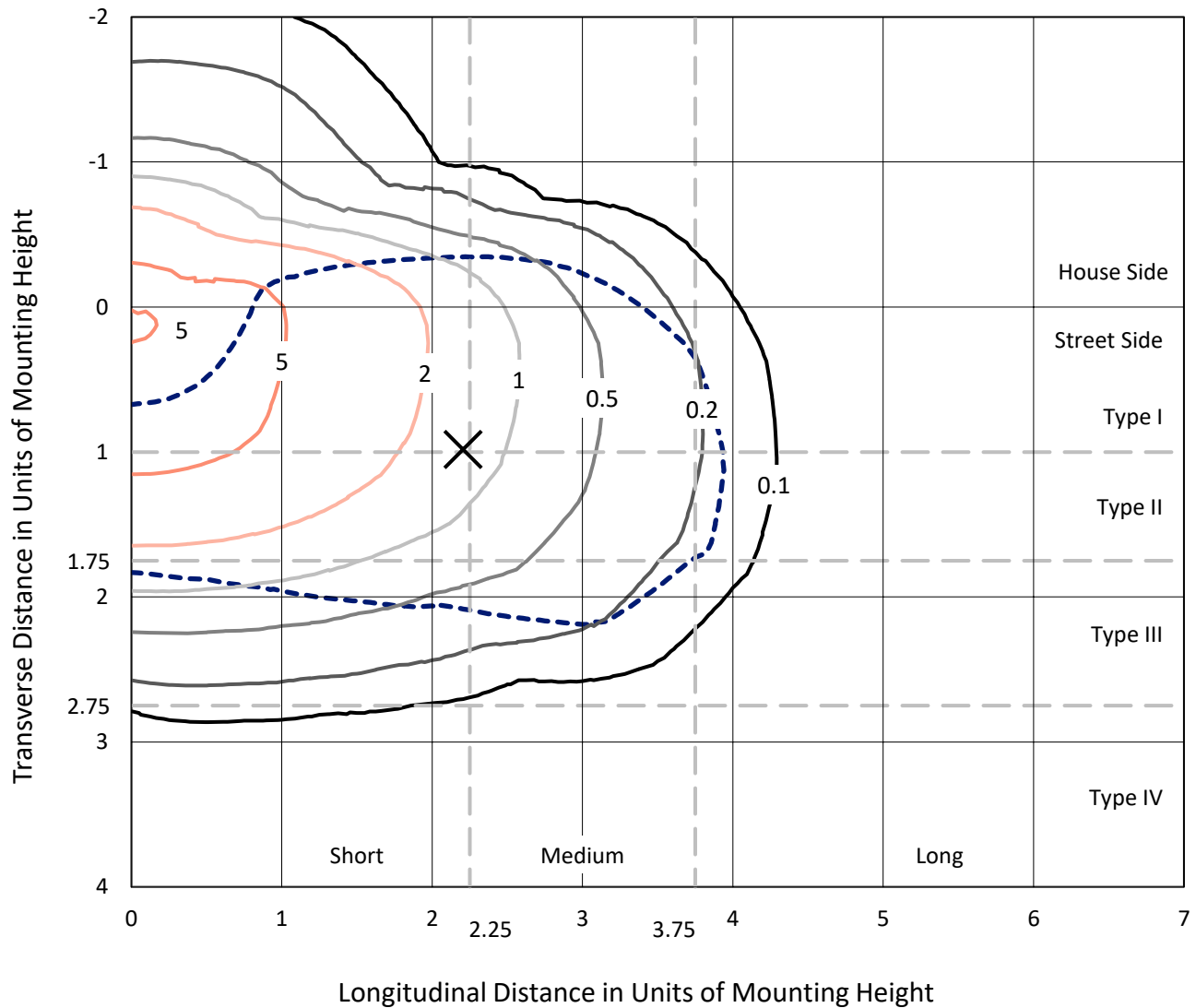


REPORT NUMBER: P940597

CATALOG NUMBER: GALN-SB3D-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

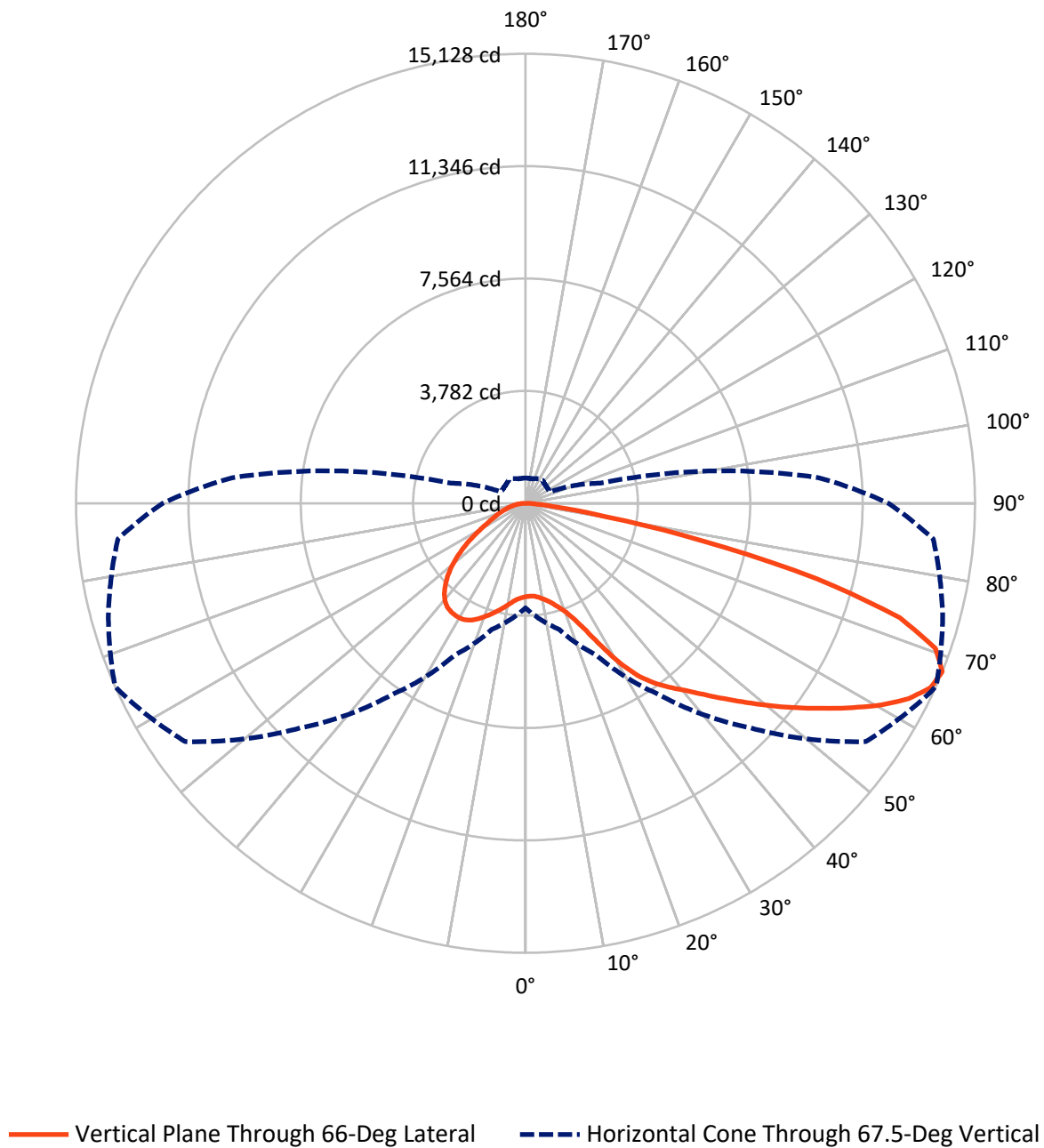


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

REPORT NUMBER: P940597

CATALOG NUMBER: GALN-SB3D-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P940597

CATALOG NUMBER: GALN-SB3D-727-U-T3

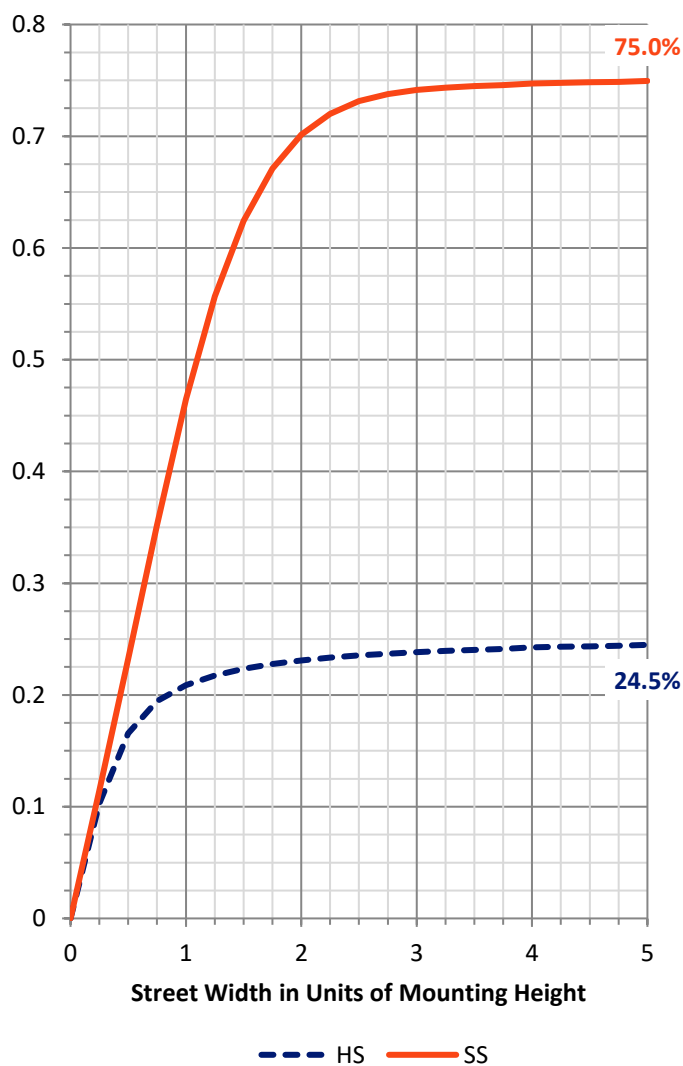
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7046.4	0.0	7046.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21292.6	0.0	21292.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	28339.0	0.0	28339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	1.1
10°-20°	1029.6	3.6
20°-30°	1984.5	7.0
30°-40°	3479.5	12.3
40°-50°	5172.9	18.3
50°-60°	6557.2	23.1
60°-70°	6416.0	22.6
70°-80°	3060.5	10.8
80°-90°	327.1	1.2
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°	28339.0	100.0
0°-180°	28339.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940597

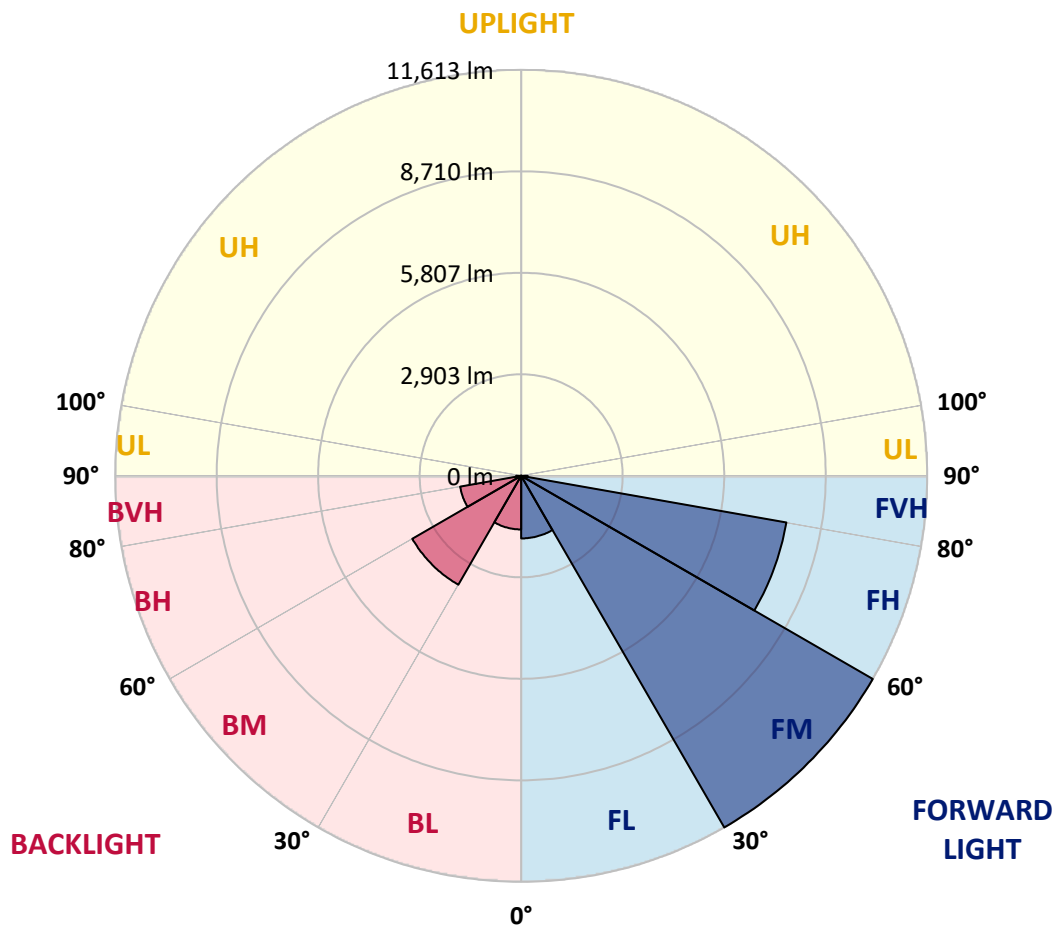
CATALOG NUMBER: GALN-SB3D-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1790.7	6.3			
FM	(30°-60°)	11613.1	41.0			
FH	(60°-80°)	7703.3	27.2			G4/12000
FVH	(80°-90°)	185.4	0.7			G2/225
BL	(0°-30°)	1535.0	5.4	B3/2500		
BM	(30°-60°)	3596.6	12.7	B3/5000		
BH	(60°-80°)	1773.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	141.6	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 III Short



REPORT NUMBER: P940597

CATALOG NUMBER: GALN-SB3D-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2
2.5°	3110.4	3128.3	3123.8	3116.4	3114.9	3117.9	3122.3	3126.8	3125.3	3132.7	3144.7
5°	3101.5	3119.3	3117.9	3117.9	3123.8	3135.7	3143.2	3150.6	3143.2	3152.1	3168.5
7.5°	3107.4	3120.8	3126.8	3132.7	3147.6	3170.0	3187.8	3204.2	3195.3	3205.7	3226.6
10°	3183.4	3193.8	3199.7	3199.7	3210.2	3235.5	3253.4	3283.1	3275.7	3292.1	3318.9
12.5°	3321.8	3332.3	3332.3	3326.3	3333.8	3350.1	3356.1	3388.8	3375.4	3402.2	3429.0
15°	3491.6	3512.4	3496.1	3485.6	3488.6	3505.0	3503.5	3528.8	3515.4	3537.7	3561.6
17.5°	3679.2	3706.0	3679.2	3677.7	3671.7	3689.6	3691.1	3713.4	3689.6	3706.0	3722.4
20°	3901.0	3938.3	3915.9	3923.4	3910.0	3917.4	3924.9	3957.6	3920.4	3932.3	3927.8
22.5°	4213.7	4258.4	4234.6	4262.9	4253.9	4248.0	4246.5	4304.5	4246.5	4250.9	4207.8
25°	4669.3	4722.9	4681.3	4720.0	4720.0	4739.3	4761.7	4836.1	4739.3	4711.0	4599.4
27.5°	5342.3	5395.9	5314.1	5337.9	5330.4	5378.1	5354.3	5538.9	5434.7	5388.5	5163.7
30°	6152.3	6247.6	6092.8	6086.8	6079.4	6155.3	6189.6	6311.7	6205.9	6159.8	5888.8
32.5°	7027.8	7127.6	6943.0	6889.4	6861.1	6907.2	6878.9	6977.2	6904.3	6832.8	6497.8
35°	7954.0	8052.2	7876.5	7772.3	7659.1	7562.4	7461.1	7486.4	7417.9	7309.2	6962.3
37.5°	8829.5	9009.6	8823.5	8711.8	8503.4	8314.3	8031.4	7913.8	7849.7	7750.0	7400.1
40°	9721.3	9824.1	9682.6	9587.3	9361.0	9064.7	8612.1	8363.4	8277.1	8180.3	7884.0
42.5°	10378.0	10476.2	10400.3	10334.8	10157.6	9813.7	9228.5	8917.3	8792.2	8683.5	8431.9
45°	10899.1	10972.1	10924.4	10948.2	10872.3	10538.8	9867.3	9511.4	9381.9	9249.3	9051.3
47.5°	11109.0	11186.5	11262.4	11403.9	11533.4	11287.7	10553.7	10154.6	10017.6	9882.1	9687.1
50°	11085.2	11164.1	11384.5	11685.3	12087.3	12005.4	11277.3	10839.5	10713.0	10558.1	10378.0
52.5°	10894.6	10984.0	11266.9	11767.2	12407.4	12542.9	12014.3	11546.8	11427.7	11243.0	11062.9
55°	10394.3	10447.9	10872.3	11581.0	12483.3	12918.1	12736.5	12300.2	12181.1	11923.5	11727.0
57.5°	9466.7	9544.2	10162.1	11079.3	12292.8	13172.7	13370.8	13092.3	12977.7	12606.9	12401.4
60°	8256.2	8379.8	9087.1	10236.5	11807.4	13171.2	13947.0	13871.0	13775.7	13279.9	13065.5
62.5°	6886.4	7029.3	7709.8	9045.4	10958.7	12797.5	14307.3	14523.2	14474.1	13900.8	13626.9
65°	5288.7	5387.0	6064.5	7504.3	9638.0	11995.0	14349.0	14968.4	14977.3	14372.8	13920.2
67.5°	3521.4	3804.3	4392.4	5631.2	7869.1	10683.2	13982.7	15041.4	15127.7	14535.1	13772.8
70°	1718.2	2090.5	2666.7	3659.8	5631.2	8671.6	13025.3	14442.8	14634.9	14061.6	12894.3
72.5°	713.2	833.8	1148.0	1806.1	3232.5	5851.6	11101.6	12819.8	13175.7	12459.5	10841.0
75°	480.9	521.1	656.6	926.1	1472.6	2885.6	8006.1	9559.0	10132.3	9410.2	7691.9
77.5°	370.7	396.1	478.0	647.7	875.5	1091.4	4285.2	5760.7	6057.0	5607.4	4002.3
80°	291.8	311.2	357.3	472.0	620.9	583.7	1460.7	2610.1	2781.4	2333.2	1286.5
82.5°	253.1	260.6	256.1	320.1	412.4	341.0	479.4	963.3	1063.1	771.3	419.9
85°	183.1	204.0	212.9	198.0	218.9	172.7	196.5	341.0	375.2	335.0	236.7
87.5°	74.4	110.2	135.5	128.0	80.4	49.1	61.0	99.8	114.6	125.1	77.4
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: P940597

CATALOG NUMBER: GALN-SB3D-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2	3143.2
2.5°	3146.1	3156.6	3164.0	3172.9	3178.9	3187.8	3205.7	3216.1	3217.6	3225.1	3223.6
5°	3174.4	3189.3	3205.7	3229.5	3256.3	3278.7	3312.9	3336.7	3345.7	3353.1	3351.6
7.5°	3235.5	3256.3	3286.1	3327.8	3366.5	3396.3	3438.0	3466.3	3494.6	3505.0	3506.5
10°	3326.3	3356.1	3399.3	3455.8	3497.5	3536.3	3579.4	3603.3	3631.5	3643.5	3649.4
12.5°	3439.5	3470.7	3527.3	3606.2	3644.9	3671.7	3686.6	3680.7	3686.6	3697.1	3700.0
15°	3569.0	3603.3	3667.3	3752.1	3779.0	3755.1	3722.4	3692.6	3688.1	3691.1	3701.5
17.5°	3722.4	3747.7	3822.1	3893.6	3874.2	3776.0	3704.5	3656.9	3633.0	3625.6	3636.0
20°	3936.8	3936.8	3997.8	4042.5	3913.0	3746.2	3634.5	3557.1	3508.0	3487.1	3482.6
22.5°	4197.3	4173.5	4212.2	4181.0	3905.5	3662.8	3508.0	3374.0	3299.5	3269.7	3265.3
25°	4527.9	4499.6	4489.2	4295.6	3851.9	3530.3	3278.7	3116.4	3050.9	3034.5	3037.5
27.5°	5026.7	4955.2	4819.7	4358.2	3753.6	3321.8	3010.7	2860.3	2823.0	2824.5	2829.0
30°	5690.8	5547.8	5215.8	4368.6	3592.8	3027.0	2736.7	2629.5	2611.6	2619.1	2644.4
32.5°	6305.7	6170.2	5620.8	4320.9	3345.7	2738.2	2491.0	2419.5	2392.7	2401.7	2413.6
35°	6788.1	6750.9	5996.0	4253.9	3041.9	2467.2	2270.6	2209.6	2157.5	2145.6	2154.5
37.5°	7243.7	7228.8	6277.4	4160.1	2741.2	2275.1	2093.5	2013.1	1937.1	1895.4	1896.9
40°	7744.0	7729.1	6462.0	4015.7	2474.6	2108.4	1934.1	1828.4	1734.6	1658.7	1666.1
42.5°	8306.8	8219.0	6549.9	3808.7	2248.3	1966.9	1804.6	1661.7	1538.1	1468.1	1472.6
45°	8921.8	8723.7	6548.4	3545.2	2057.7	1837.4	1666.1	1463.6	1349.0	1283.5	1280.5
47.5°	9573.9	9206.2	6468.0	3253.4	1873.1	1694.4	1451.7	1296.9	1220.9	1180.7	1171.8
50°	10246.9	9657.3	6331.0	2918.3	1684.0	1532.1	1317.7	1212.0	1153.9	1116.7	1103.3
52.5°	10879.7	10066.8	6165.7	2538.7	1491.9	1374.3	1258.2	1176.3	1115.2	1073.5	1055.7
55°	11467.9	10419.7	5932.0	2150.0	1335.6	1268.6	1229.9	1161.4	1091.4	1042.3	1022.9
57.5°	11990.5	10649.0	5528.5	1785.2	1223.9	1195.6	1200.1	1136.1	1055.7	1014.0	987.2
60°	12425.3	10817.2	4931.4	1447.3	1133.1	1124.2	1153.9	1088.4	994.6	947.0	926.1
62.5°	12685.8	10814.2	4198.8	1185.2	1055.7	1058.6	1092.9	1028.9	933.6	888.9	875.5
65°	12663.5	10549.2	3394.8	1014.0	981.2	984.2	1028.9	963.3	882.9	856.1	854.7
67.5°	12215.3	9903.0	2604.2	902.3	899.3	912.7	964.8	918.7	851.7	848.7	853.2
70°	11001.8	8561.5	1876.1	813.0	814.5	833.8	902.3	890.4	835.3	841.3	839.8
72.5°	8822.0	6527.5	1259.7	719.2	720.7	751.9	842.7	868.1	818.9	897.8	909.7
75°	5875.4	4070.8	810.0	619.4	620.9	661.1	790.6	824.9	774.3	894.9	902.3
77.5°	2823.0	1829.9	586.6	521.1	521.1	558.4	683.4	738.5	659.6	695.3	637.3
80°	975.3	687.9	461.6	419.9	410.9	436.3	576.2	640.2	568.8	524.1	491.4
82.5°	384.1	357.3	370.7	326.1	296.3	312.7	448.2	528.6	418.4	378.2	376.7
85°	220.4	232.3	262.1	215.9	171.2	192.1	329.1	379.7	315.7	278.4	284.4
87.5°	59.6	81.9	120.6	111.7	77.4	81.9	156.3	209.9	181.7	140.0	144.4
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)