

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: P943145

Luminaire Tested: **GALN-SB7C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48948 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 350.5
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

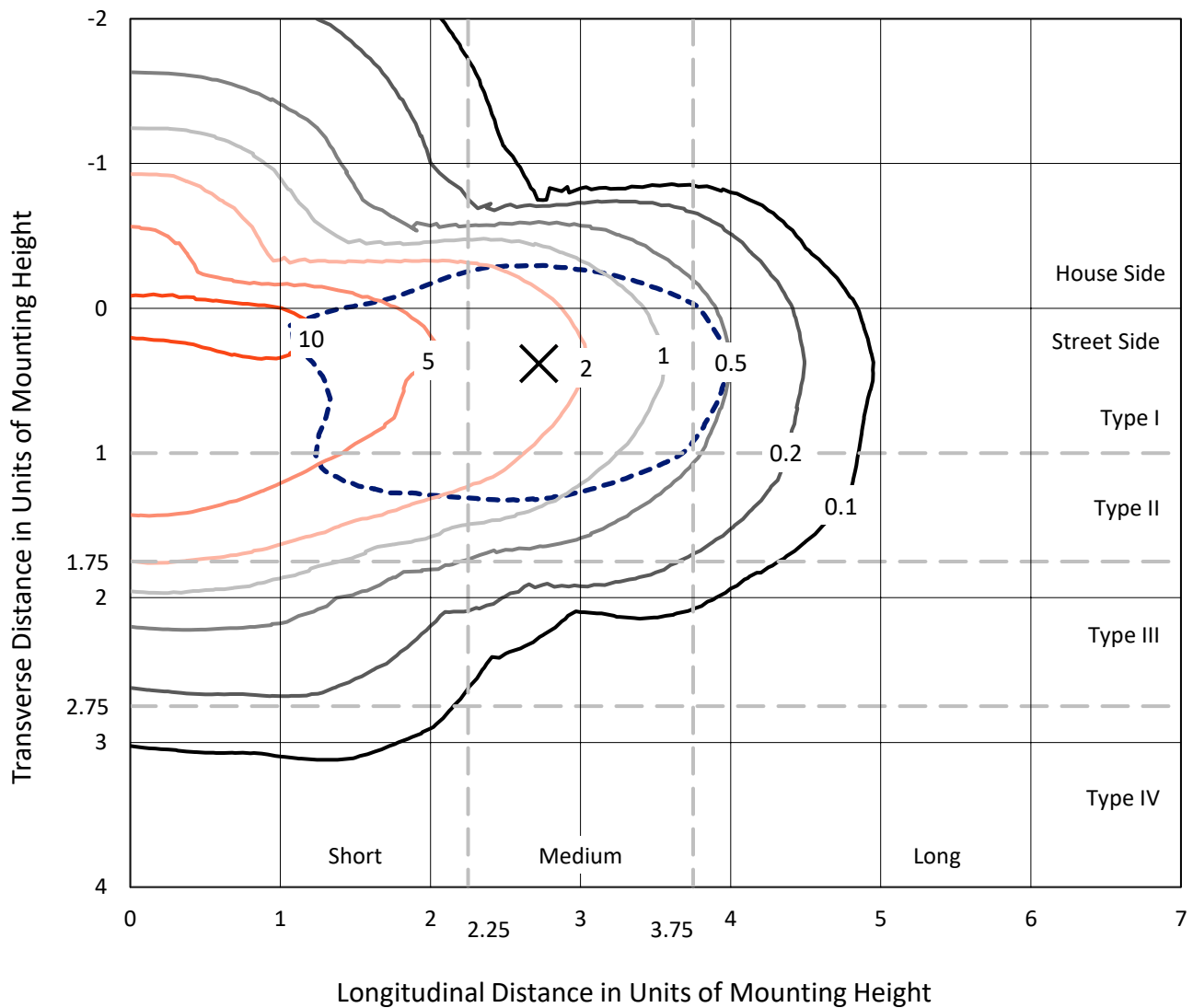


REPORT NUMBER: P943145

CATALOG NUMBER: GALN-SB7C-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

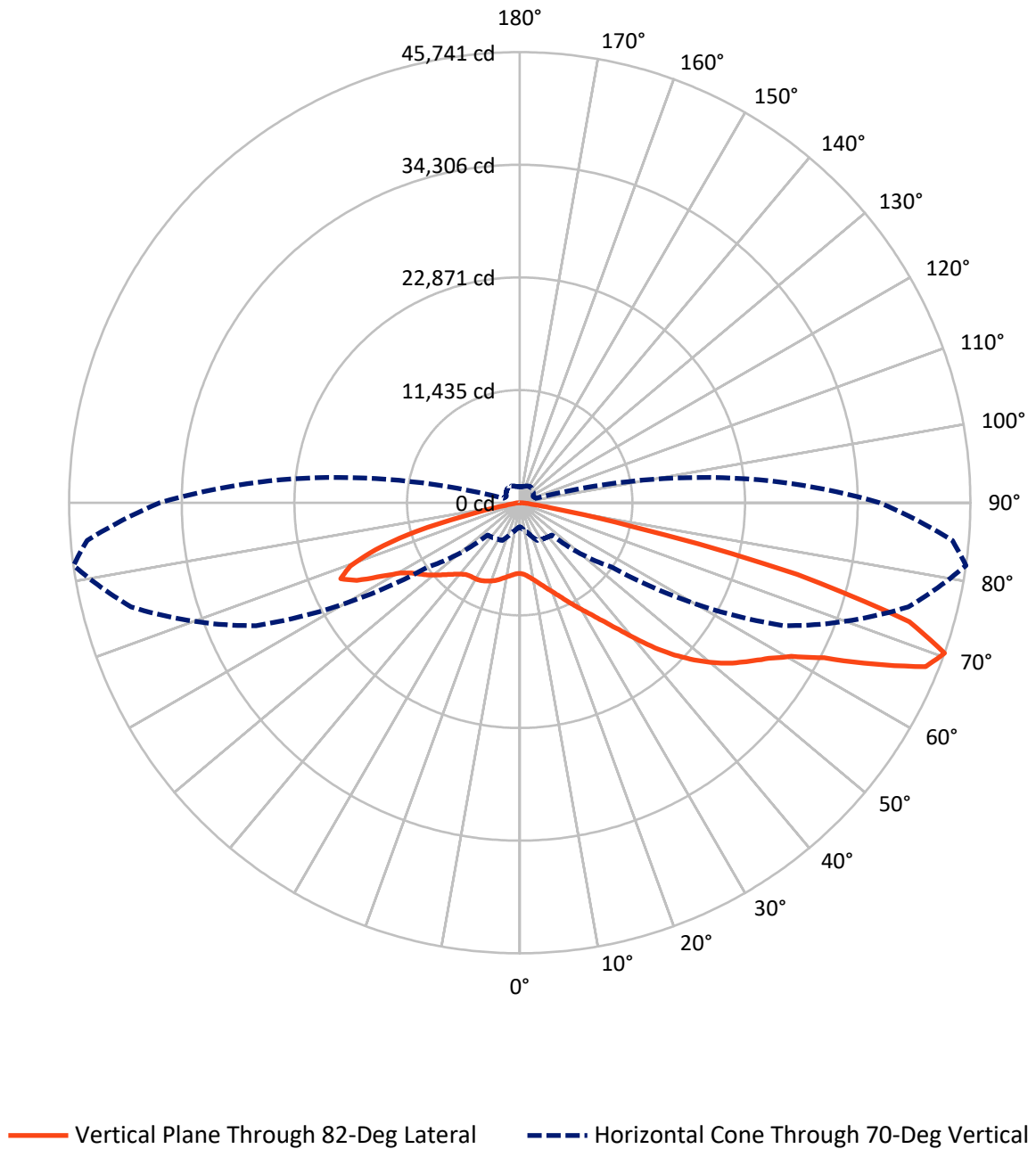


Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type II - Medium - N/A

REPORT NUMBER: P943145

CATALOG NUMBER: GALN-SB7C-727-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P943145

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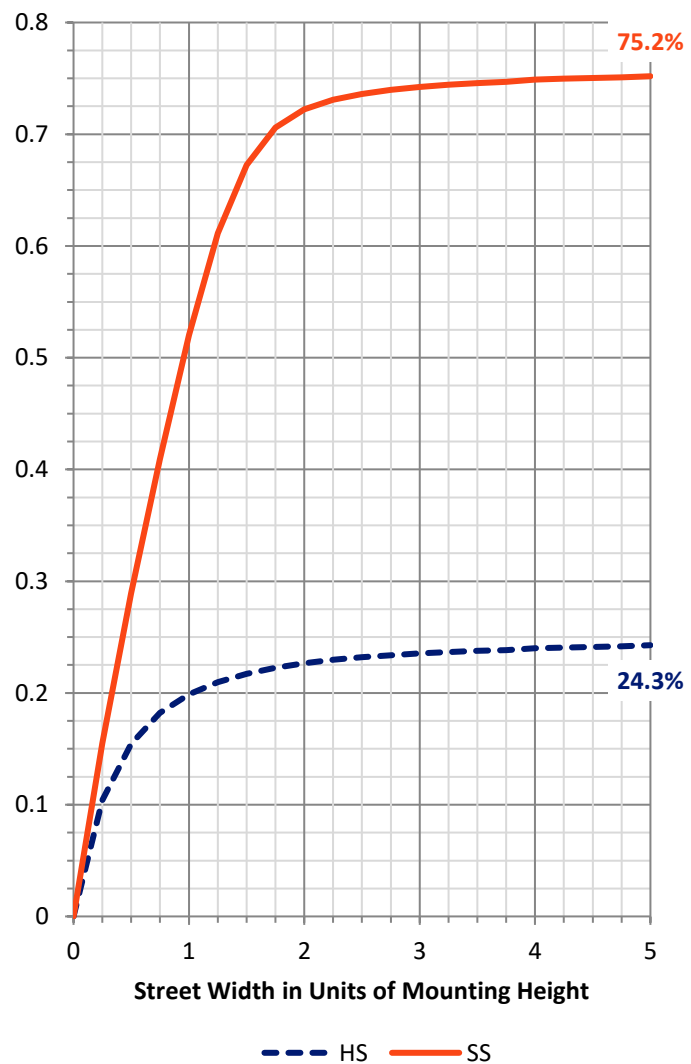
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12066.9	0.0	12066.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36881.1	0.0	36881.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	48948.0	0.0	48948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.6	1.4
10°-20°	1946.7	4.0
20°-30°	3256.7	6.7
30°-40°	5087.8	10.4
40°-50°	8102.8	16.6
50°-60°	11276.1	23.0
60°-70°	11795.3	24.1
70°-80°	6164.9	12.6
80°-90°	640.2	1.3
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°	48948.0	100.0
0°-180°	48948.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943145

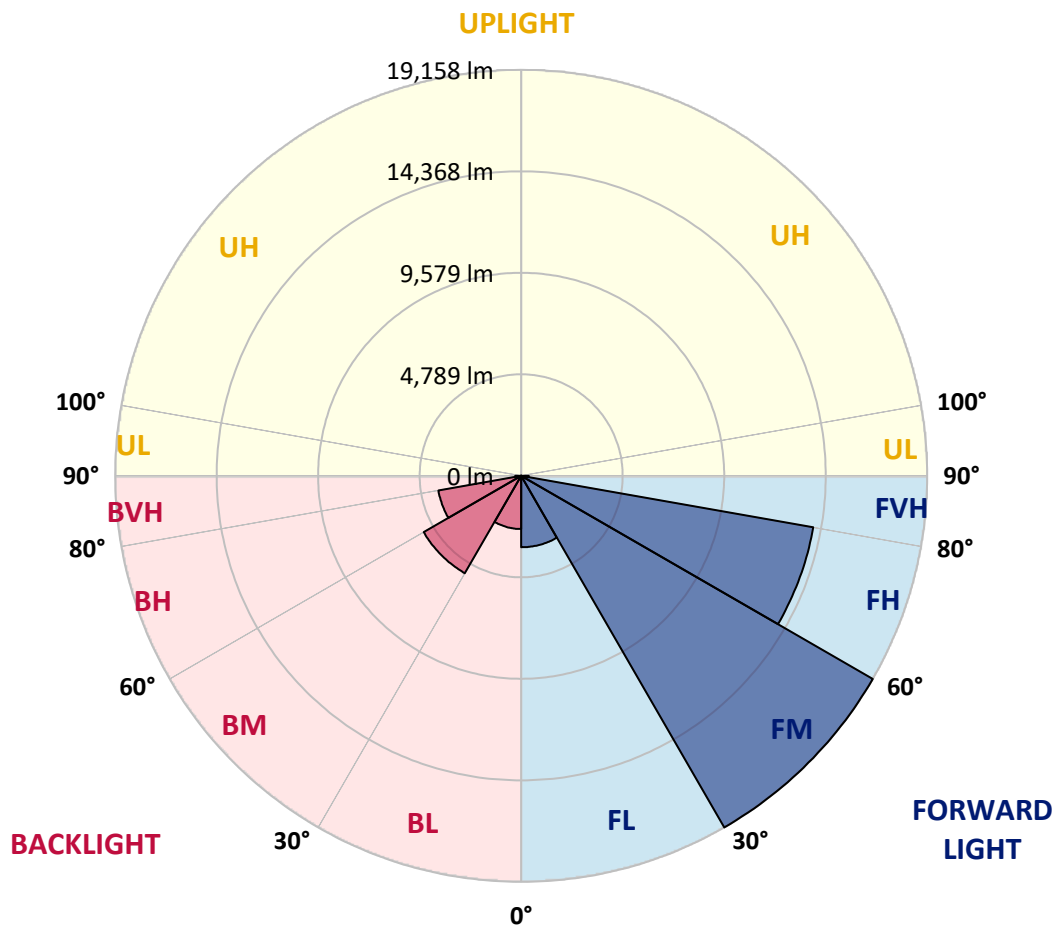
CATALOG NUMBER: GALN-SB7C-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3370.6	6.9			
FM	(30°-60°)	19157.8	39.1			
FH	(60°-80°)	13994.4	28.6			G5
FVH	(80°-90°)	358.4	0.7			G3/500
BL	(0°-30°)	2510.4	5.1	B4/5000		
BM	(30°-60°)	5309.0	10.8	B4/8500		
BH	(60°-80°)	3965.8	8.1	B4/5000		G4/5000
BVH	(80°-90°)	281.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P943145

CATALOG NUMBER: GALN-SB7C-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
2.5°	7347.8	7389.4	7376.4	7363.4	7363.4	7345.2	7342.6	7316.6	7295.9	7262.1	7254.3
5°	7441.3	7485.5	7480.3	7490.7	7524.4	7532.2	7540.0	7524.4	7482.9	7441.3	7423.1
7.5°	7358.2	7407.6	7423.1	7485.5	7589.4	7682.9	7753.0	7781.6	7742.6	7682.9	7654.3
10°	7077.7	7132.2	7186.8	7334.8	7519.2	7740.0	7927.0	8038.7	8030.9	7973.8	7924.4
12.5°	6508.9	6566.0	6682.9	6971.2	7308.9	7698.4	8046.5	8280.2	8360.8	8319.2	8233.5
15°	6054.3	6103.7	6192.0	6488.1	6927.0	7519.2	8090.6	8545.2	8750.4	8727.0	8623.1
17.5°	6041.4	6062.1	6116.7	6256.9	6594.6	7238.7	8043.9	8804.9	9197.1	9194.5	9064.6
20°	6269.9	6277.7	6308.9	6337.5	6529.7	7025.7	7924.4	9020.5	9698.4	9698.4	9558.1
22.5°	6586.8	6581.6	6612.8	6586.8	6680.3	7007.6	7849.1	9210.1	10256.8	10298.4	10121.7
25°	7062.1	7036.1	7028.3	6968.6	6986.8	7176.4	7932.2	9425.7	10919.1	11004.8	10784.1
27.5°	7695.9	7654.3	7625.7	7488.1	7441.3	7524.4	8186.7	9685.4	11656.8	11804.8	11524.3
30°	8521.8	8446.5	8404.9	8166.0	7997.1	8010.1	8571.1	10030.8	12428.2	12667.1	12311.3
32.5°	9649.0	9532.2	9420.5	9028.3	8719.2	8617.9	9067.2	10508.7	13264.5	13646.3	13189.2
35°	10911.3	10817.8	10698.4	10093.2	9617.9	9384.1	9737.3	11176.3	14243.7	14848.9	14254.1
37.5°	12126.9	12046.4	12103.5	11287.9	10675.0	10334.7	10615.2	12072.3	15451.4	16344.9	15589.1
40°	13384.0	13321.6	13329.4	12550.2	11836.0	11454.2	11680.1	13197.0	16835.8	18124.1	17194.2
42.5°	14750.2	14703.4	14547.6	13856.7	13054.1	12698.3	12906.1	14495.6	18321.5	20150.0	18955.2
45°	16280.0	16251.4	16106.0	15313.8	14394.3	13994.3	14274.9	15929.3	19814.9	22056.4	20724.0
47.5°	17602.0	17625.4	17607.2	16939.7	15986.5	15399.5	15734.6	17425.4	21204.5	23848.6	22420.0
50°	18238.4	18360.4	18539.7	18331.9	17739.7	17142.3	17207.2	18869.5	22529.1	25529.0	24046.0
52.5°	17905.9	18137.1	18625.4	18957.8	19186.4	19061.7	18887.7	20303.2	23775.8	27045.9	25583.6
55°	16667.0	16991.7	17802.0	18604.6	19770.8	20677.2	20905.8	21892.8	24991.4	28380.9	27038.1
57.5°	14409.9	14937.2	15664.4	17287.7	19251.3	21459.0	23259.0	24097.9	26279.7	29806.8	28560.1
60°	10539.9	11246.4	12150.3	14565.8	17433.2	21040.9	25261.5	27484.8	28110.8	31653.5	30541.9
62.5°	6745.2	7181.6	8012.7	10288.0	13584.0	18898.1	25874.5	31718.4	31214.6	34682.0	33513.2
65°	4618.0	4898.5	5659.6	6937.4	8781.5	14067.1	24233.0	34892.4	36144.3	39481.8	38593.5
67.5°	3355.7	3568.7	4218.0	5337.5	5721.9	8324.4	18804.6	34746.9	40936.3	44427.1	43045.3
70°	2446.7	2597.3	3142.8	4218.0	4402.5	4631.0	11391.8	29536.7	40832.4	45741.4	44086.9
72.5°	1812.9	1916.8	2283.0	3272.6	3563.5	3127.2	5638.8	21466.8	35087.2	41372.7	40045.4
75°	1311.6	1389.6	1659.7	2503.8	2851.9	2381.7	2812.9	12545.0	24474.5	29102.9	29336.7
77.5°	1002.6	1062.3	1238.9	1833.7	2283.0	1787.0	1745.4	5771.2	11604.8	11662.0	12316.5
80°	805.2	844.1	940.2	1290.9	1750.6	1337.6	1137.6	2329.8	3667.4	3103.8	3257.0
82.5°	592.2	657.1	794.8	906.5	1251.9	922.0	693.5	1176.6	1394.8	1200.0	1210.4
85°	337.7	381.8	480.5	649.3	800.0	563.6	397.4	522.1	649.3	532.5	475.3
87.5°	119.5	155.8	168.8	254.5	348.0	233.8	153.2	150.6	213.0	158.4	132.5
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: P943145

CATALOG NUMBER: GALN-SB7C-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
2.5°	7228.3	7215.3	7163.4	7093.3	7020.5	6950.4	6927.0	6877.7	6843.9	6825.8	6846.5
5°	7373.8	7332.2	7210.2	7054.3	6890.7	6714.1	6589.4	6475.1	6392.0	6314.1	6345.2
7.5°	7581.6	7508.8	7298.5	7025.7	6734.8	6441.3	6223.2	6056.9	5945.3	5872.5	5888.1
10°	7823.1	7711.4	7389.4	6981.6	6532.3	6111.5	5854.4	5711.5	5641.4	5602.4	5612.8
12.5°	8101.0	7942.6	7482.9	6880.3	6223.2	5742.7	5566.1	5524.5	5527.1	5529.7	5534.9
15°	8443.9	8223.1	7558.2	6659.5	5820.6	5459.6	5428.4	5495.9	5566.1	5599.8	5597.2
17.5°	8830.9	8519.2	7571.2	6295.9	5425.8	5277.7	5376.4	5521.9	5628.4	5675.1	5685.5
20°	9246.5	8820.5	7477.7	5781.6	5101.1	5129.7	5306.3	5493.3	5610.2	5669.9	5685.5
22.5°	9721.8	9142.6	7254.3	5241.4	4836.2	4968.7	5176.5	5358.3	5480.3	5540.1	5555.7
25°	10264.6	9503.6	6903.7	4786.9	4607.6	4786.9	4994.6	5145.3	5244.0	5298.5	5314.1
27.5°	10867.2	9880.2	6436.2	4425.8	4407.6	4599.8	4771.3	4888.2	4940.1	4981.7	4997.2
30°	11472.4	10223.0	5869.9	4153.1	4233.6	4415.4	4537.5	4589.5	4605.0	4612.8	4631.0
32.5°	12126.9	10519.1	5275.2	3927.1	4067.4	4236.2	4309.0	4332.3	4259.6	4210.3	4225.8
35°	12919.1	10836.0	4693.4	3747.9	3903.8	4049.2	4072.6	4051.8	3966.1	3864.8	3870.0
37.5°	13898.2	11230.8	4228.4	3620.7	3750.5	3846.6	3818.1	3812.9	3820.7	3701.2	3709.0
40°	15098.2	11745.1	3888.2	3522.0	3625.9	3646.6	3566.1	3610.3	3649.2	3467.4	3472.6
42.5°	16430.6	12365.8	3672.6	3454.4	3522.0	3472.6	3347.9	3397.3	3392.1	3153.1	3150.5
45°	17789.0	13041.1	3597.3	3405.1	3425.9	3327.2	3189.5	3202.5	3093.4	2877.8	2885.6
47.5°	19139.6	13765.8	3644.0	3363.5	3306.4	3194.7	3088.2	3031.1	2870.0	2709.0	2709.0
50°	20464.3	14526.8	3815.5	3280.4	3142.8	3077.8	2999.9	2898.6	2727.2	2589.5	2579.1
52.5°	21692.8	15293.0	4007.7	3142.8	2937.6	2976.5	2927.2	2810.3	2641.5	2501.2	2503.8
55°	22856.4	16059.2	4083.0	2953.2	2745.4	2888.2	2859.6	2644.1	2441.5	2327.2	2316.8
57.5°	24123.9	16981.3	3999.9	2711.6	2589.5	2786.9	2677.8	2438.9	2322.0	2236.3	2228.5
60°	25879.7	18428.0	3820.7	2412.9	2441.5	2636.3	2449.3	2350.6	2223.3	2127.2	2122.0
62.5°	28796.5	21126.6	3532.4	2116.8	2267.5	2412.9	2340.2	2241.5	2111.6	2018.1	2018.1
65°	33108.0	24877.1	2989.5	1885.7	2072.7	2194.7	2223.3	2124.6	1989.5	1890.8	1896.0
67.5°	36744.3	27230.3	2262.3	1693.5	1872.7	2018.1	2098.6	2002.5	1859.7	1763.6	1766.2
70°	36544.3	25521.2	1727.2	1503.8	1696.0	1844.1	1948.0	1872.7	1719.4	1628.5	1636.3
72.5°	32458.7	21350.0	1397.4	1311.6	1516.8	1662.3	1787.0	1729.8	1574.0	1485.7	1485.7
75°	23846.0	15155.3	1116.8	1116.8	1293.5	1472.7	1610.3	1574.0	1431.1	1368.8	1350.6
77.5°	10051.6	6358.2	875.3	927.2	1075.3	1264.9	1436.3	1449.3	1324.6	1402.6	1272.7
80°	2672.6	1753.2	667.5	729.8	844.1	1044.1	1249.3	1244.1	1109.1	1036.3	963.6
82.5°	1018.1	690.9	475.3	514.3	610.4	800.0	989.6	1020.7	885.7	766.2	766.2
85°	392.2	296.1	293.5	309.1	355.8	529.9	748.0	774.0	667.5	566.2	584.4
87.5°	101.3	88.3	109.1	103.9	163.6	283.1	428.6	444.1	407.8	236.4	337.7
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)