

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: P941955

Luminaire Tested: **GALN-SB5D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941955
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-SB5D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47242 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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

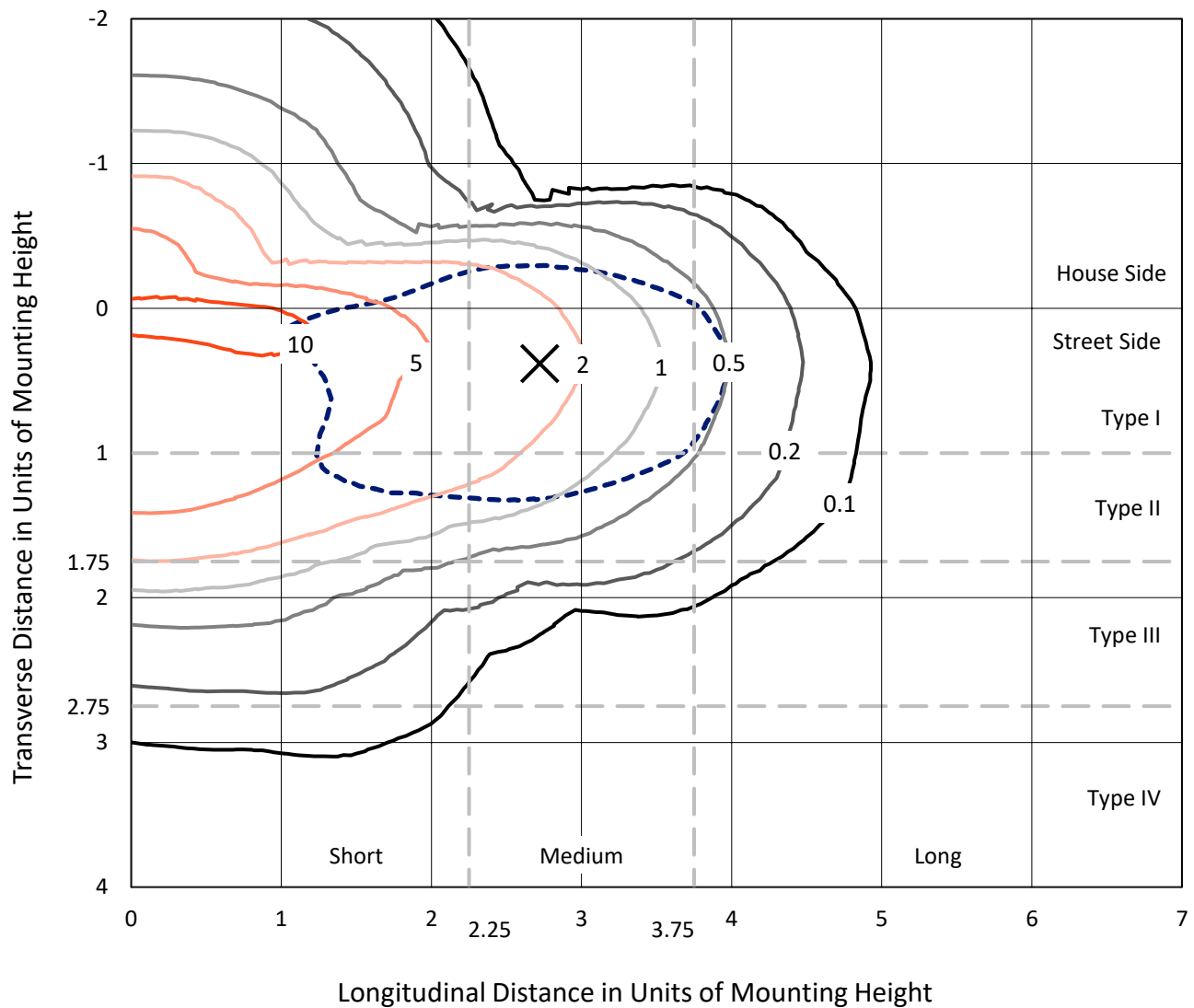


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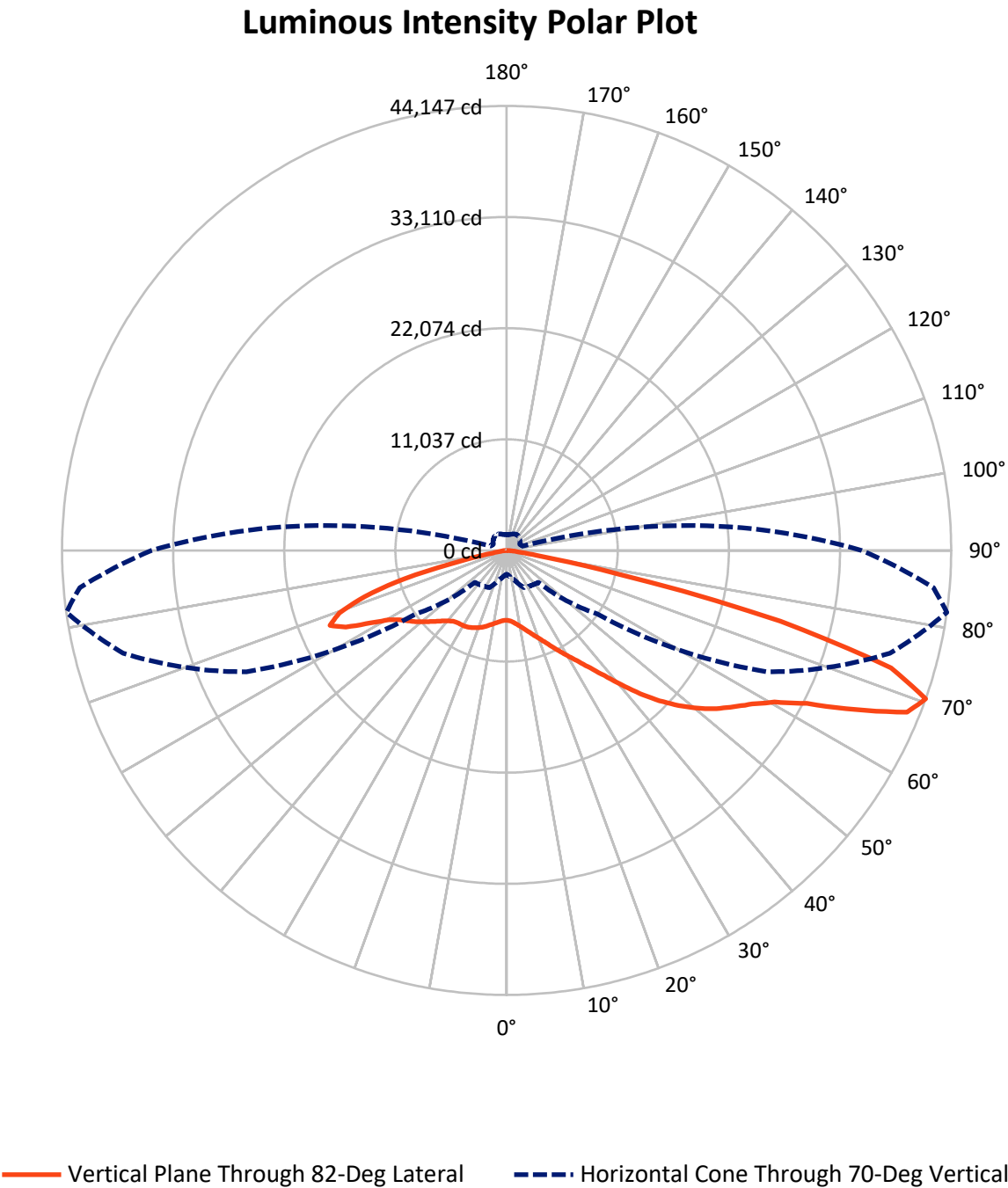
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type II - Medium - N/A

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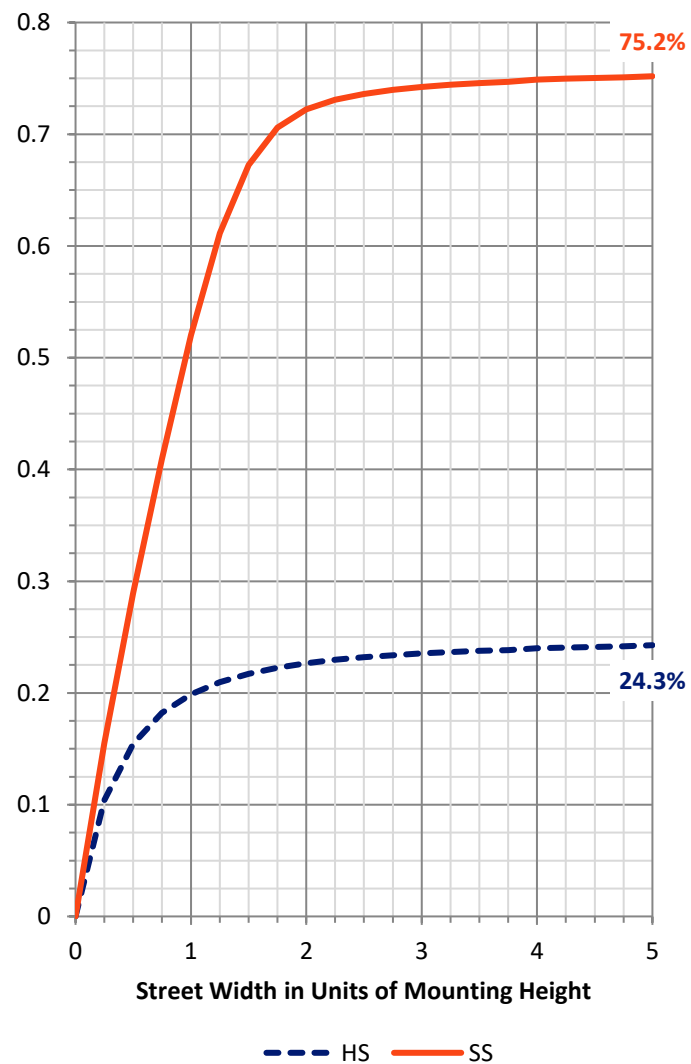
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11646.3	0.0	11646.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35595.7	0.0	35595.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	47242.0	0.0	47242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.0	1.4
10°-20°	1878.9	4.0
20°-30°	3143.2	6.7
30°-40°	4910.4	10.4
40°-50°	7820.4	16.6
50°-60°	10883.1	23.0
60°-70°	11384.2	24.1
70°-80°	5950.0	12.6
80°-90°	617.8	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°	47242.0	100.0
0°-180°	47242.0	100.0

Coefficient of Utilization



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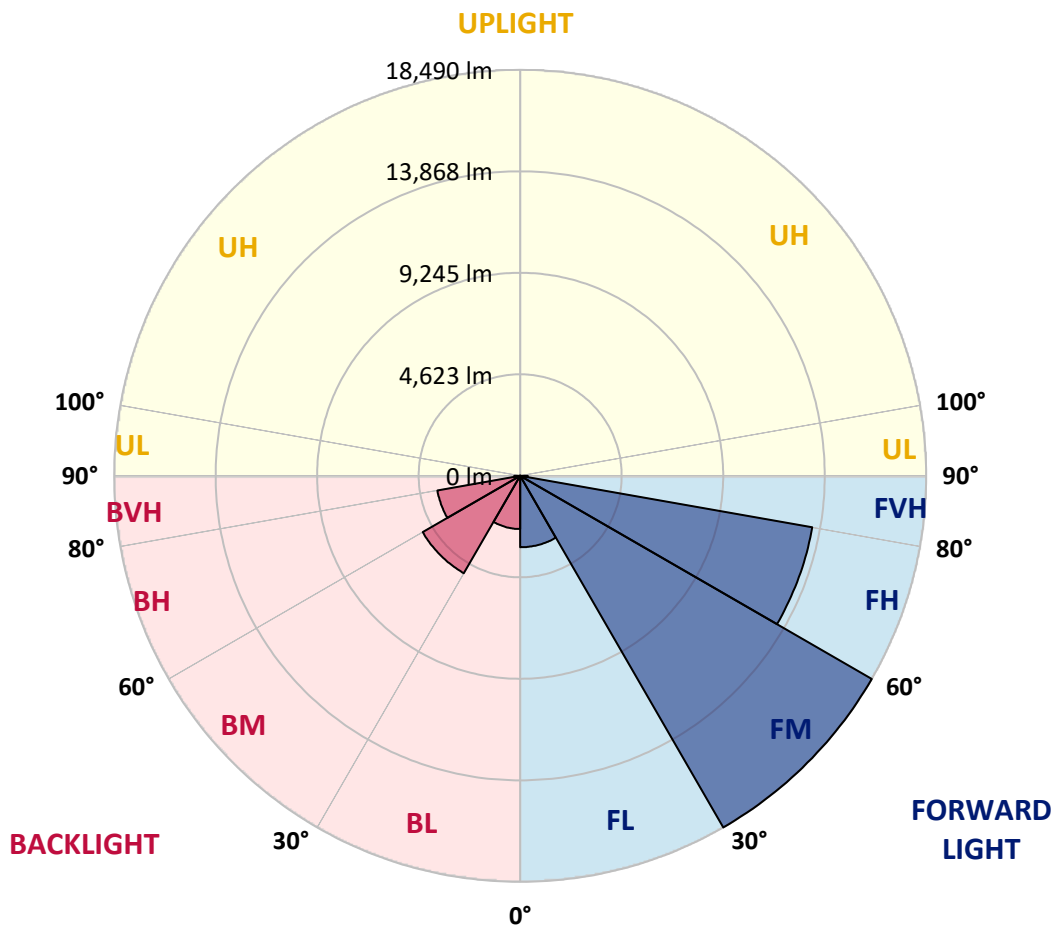
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3253.1	6.9			
FM	(30°-60°)	18490.0	39.1			
FH	(60°-80°)	13506.6	28.6			G5
FVH	(80°-90°)	345.9	0.7			G3/500
BL	(0°-30°)	2422.9	5.1	B3/2500		
BM	(30°-60°)	5123.9	10.8	B4/8500		
BH	(60°-80°)	3827.6	8.1	B4/5000		G4/5000
BVH	(80°-90°)	272.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3
2.5°	7091.7	7131.8	7119.3	7106.8	7106.8	7089.2	7086.7	7061.6	7041.6	7009.0	7001.5
5°	7182.0	7224.6	7219.6	7229.6	7262.2	7269.7	7277.2	7262.2	7222.1	7182.0	7164.4
7.5°	7101.7	7149.4	7164.4	7224.6	7324.8	7415.1	7482.8	7510.4	7472.7	7415.1	7387.5
10°	6831.0	6883.7	6936.3	7079.2	7257.2	7470.2	7650.7	7758.5	7751.0	7695.9	7648.2
12.5°	6282.0	6337.2	6450.0	6728.2	7054.1	7430.1	7766.0	7991.7	8069.4	8029.3	7946.5
15°	5843.3	5891.0	5976.2	6262.0	6685.6	7257.2	7808.7	8247.3	8445.4	8422.8	8322.6
17.5°	5830.8	5850.9	5903.5	6038.9	6364.7	6986.4	7763.5	8498.0	8876.6	8874.0	8748.7
20°	6051.4	6058.9	6089.0	6116.6	6302.1	6780.9	7648.2	8706.1	9360.4	9360.4	9225.0
22.5°	6357.2	6352.2	6382.3	6357.2	6447.5	6763.3	7575.5	8889.1	9899.3	9939.4	9769.0
25°	6816.0	6790.9	6783.4	6725.7	6743.3	6926.3	7655.7	9097.2	10538.6	10621.3	10408.2
27.5°	7427.6	7387.5	7359.9	7227.1	7182.0	7262.2	7901.4	9347.8	11250.5	11393.4	11122.6
30°	8224.8	8152.1	8112.0	7881.4	7718.4	7730.9	8272.4	9681.2	11995.0	12225.6	11882.2
32.5°	9312.7	9199.9	9092.1	8713.6	8415.3	8317.5	8751.2	10142.5	12802.2	13170.7	12729.5
35°	10531.0	10440.8	10325.5	9741.4	9282.7	9057.0	9398.0	10786.7	13747.3	14331.3	13757.3
37.5°	11704.2	11626.5	11681.7	10894.5	10302.9	9974.5	10245.3	11651.6	14912.9	15775.2	15045.8
40°	12917.5	12857.3	12864.9	12112.8	11423.5	11055.0	11273.0	12737.0	16249.0	17492.4	16595.0
42.5°	14236.1	14191.0	14040.5	13373.7	12599.1	12255.7	12456.3	13990.4	17682.9	19447.7	18294.6
45°	15712.6	15685.0	15544.6	14780.0	13892.6	13506.6	13777.3	15374.2	19124.3	21287.7	20001.7
47.5°	16988.5	17011.1	16993.5	16349.3	15429.3	14862.8	15186.1	16818.1	20465.5	23017.4	21638.6
50°	17602.7	17720.5	17893.5	17692.9	17121.4	16544.8	16607.5	18211.8	21743.9	24639.3	23207.9
52.5°	17281.8	17504.9	17976.2	18297.1	18517.7	18397.4	18229.4	19595.6	22947.2	26103.2	24691.9
55°	16086.1	16399.4	17181.6	17956.2	19081.7	19956.6	20177.2	21129.8	24120.4	27391.7	26095.7
57.5°	13907.7	14416.6	15118.5	16685.2	18580.3	20711.1	22448.3	23258.0	25363.7	28768.0	27564.7
60°	10172.6	10854.4	11726.8	14058.1	16825.6	20307.5	24381.1	26526.9	27131.0	30550.3	29477.4
62.5°	6510.1	6931.3	7733.5	9929.4	13110.5	18239.4	24972.7	30613.0	30126.6	33473.2	32345.1
65°	4457.1	4727.8	5462.3	6695.6	8475.5	13576.8	23388.4	33676.3	34884.5	38105.8	37248.4
67.5°	3238.8	3444.3	4071.0	5151.5	5522.5	8034.3	18149.2	33535.9	39509.6	42878.7	41545.1
70°	2361.4	2506.8	3033.2	4071.0	4249.0	4469.6	10994.8	28507.2	39409.3	44147.1	42550.3
72.5°	1749.7	1850.0	2203.5	3158.6	3439.3	3018.2	5442.2	20718.6	33864.3	39930.7	38649.7
75°	1265.9	1341.1	1601.8	2416.5	2752.5	2298.7	2714.9	12107.8	23621.5	28088.6	28314.2
77.5°	967.6	1025.3	1195.7	1769.8	2203.5	1724.7	1684.6	5570.1	11200.3	11255.5	11887.2
80°	777.1	814.7	907.5	1245.9	1689.6	1291.0	1098.0	2248.6	3539.6	2995.6	3143.5
82.5°	571.5	634.2	767.1	874.9	1208.3	889.9	669.3	1135.6	1346.1	1158.1	1168.2
85°	325.9	368.5	463.8	626.7	772.1	544.0	383.5	503.9	626.7	513.9	458.7
87.5°	115.3	150.4	162.9	245.7	335.9	225.6	147.9	145.4	205.6	152.9	127.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3
2.5°	6976.4	6963.9	6913.7	6846.1	6775.9	6708.2	6685.6	6638.0	6605.4	6587.9	6607.9
5°	7116.8	7076.7	6958.9	6808.4	6650.5	6480.1	6359.7	6249.4	6169.2	6094.0	6124.1
7.5°	7317.3	7247.1	7044.1	6780.9	6500.1	6216.8	6006.3	5845.8	5738.0	5667.9	5682.9
10°	7550.5	7442.7	7131.8	6738.3	6304.6	5898.5	5650.3	5512.4	5444.8	5407.2	5417.2
12.5°	7818.7	7665.8	7222.1	6640.5	6006.3	5542.5	5372.1	5331.9	5334.5	5337.0	5342.0
15°	8149.6	7936.5	7294.8	6427.4	5617.7	5269.3	5239.2	5304.4	5372.1	5404.6	5402.1
17.5°	8523.1	8222.3	7307.3	6076.5	5236.7	5093.8	5189.1	5329.4	5432.2	5477.3	5487.4
20°	8924.2	8513.1	7217.1	5580.1	4923.3	4950.9	5121.4	5301.9	5414.7	5472.3	5487.4
22.5°	9382.9	8823.9	7001.5	5058.7	4667.6	4795.5	4996.0	5171.5	5289.3	5347.0	5362.0
25°	9906.8	9172.4	6663.1	4620.0	4447.1	4620.0	4820.6	4966.0	5061.2	5113.9	5128.9
27.5°	10488.4	9535.8	6211.8	4271.6	4254.0	4439.5	4605.0	4717.8	4767.9	4808.0	4823.1
30°	11072.5	9866.7	5665.4	4008.4	4086.1	4261.5	4379.4	4429.5	4444.5	4452.1	4469.6
32.5°	11704.2	10152.5	5091.3	3790.3	3925.6	4088.6	4158.8	4181.3	4111.1	4063.5	4078.6
35°	12468.8	10458.3	4529.8	3617.3	3767.7	3908.1	3930.7	3910.6	3827.9	3730.1	3735.1
37.5°	13413.8	10839.4	4081.1	3494.5	3619.8	3712.6	3685.0	3680.0	3687.5	3572.2	3579.7
40°	14572.0	11335.7	3752.7	3399.2	3499.5	3519.5	3441.8	3484.4	3522.0	3346.6	3351.6
42.5°	15858.0	11934.8	3544.6	3334.0	3399.2	3351.6	3231.3	3278.9	3273.9	3043.2	3040.7
45°	17169.0	12586.6	3471.9	3286.4	3306.5	3211.2	3078.3	3090.9	2985.6	2777.5	2785.0
47.5°	18472.6	13286.0	3517.0	3246.3	3191.1	3083.4	2980.6	2925.4	2770.0	2614.6	2614.6
50°	19751.0	14020.5	3682.5	3166.1	3033.2	2970.5	2895.3	2797.6	2632.1	2499.3	2489.2
52.5°	20936.7	14760.0	3868.0	3033.2	2835.2	2872.8	2825.2	2712.3	2549.4	2414.0	2416.5
55°	22059.8	15499.5	3940.7	2850.2	2649.7	2787.6	2760.0	2551.9	2356.4	2246.1	2236.1
57.5°	23283.1	16389.4	3860.5	2617.1	2499.3	2689.8	2584.5	2353.9	2241.1	2158.3	2150.8
60°	24977.7	17785.7	3687.5	2328.8	2356.4	2544.4	2363.9	2268.6	2145.8	2053.1	2048.0
62.5°	27792.8	20390.3	3409.2	2043.0	2188.4	2328.8	2258.6	2163.4	2038.0	1947.8	1947.8
65°	31954.1	24010.1	2885.3	1819.9	2000.4	2118.2	2145.8	2050.6	1920.2	1824.9	1830.0
67.5°	35463.6	26281.2	2183.4	1634.4	1807.4	1947.8	2025.5	1932.7	1794.9	1702.1	1704.6
70°	35270.6	24631.7	1667.0	1451.4	1636.9	1779.8	1880.1	1807.4	1659.5	1571.8	1579.3
72.5°	31327.4	20605.8	1348.7	1265.9	1464.0	1604.3	1724.7	1669.5	1519.1	1433.9	1433.9
75°	23014.9	14627.1	1077.9	1077.9	1248.4	1421.4	1554.2	1519.1	1381.2	1321.1	1303.5
77.5°	9701.3	6136.6	844.8	894.9	1037.8	1220.8	1386.3	1398.8	1278.5	1353.7	1228.3
80°	2579.5	1692.1	644.2	704.4	814.7	1007.7	1205.8	1200.8	1070.4	1000.2	930.0
82.5°	982.7	666.8	458.7	496.3	589.1	772.1	955.1	985.2	854.8	739.5	739.5
85°	378.5	285.8	283.3	298.3	343.4	511.4	722.0	747.0	644.2	546.5	564.0
87.5°	97.8	85.2	105.3	100.3	157.9	273.2	413.6	428.7	393.6	228.1	325.9
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)