

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: P531912

Luminaire Tested: **GALN-SA7B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28934 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

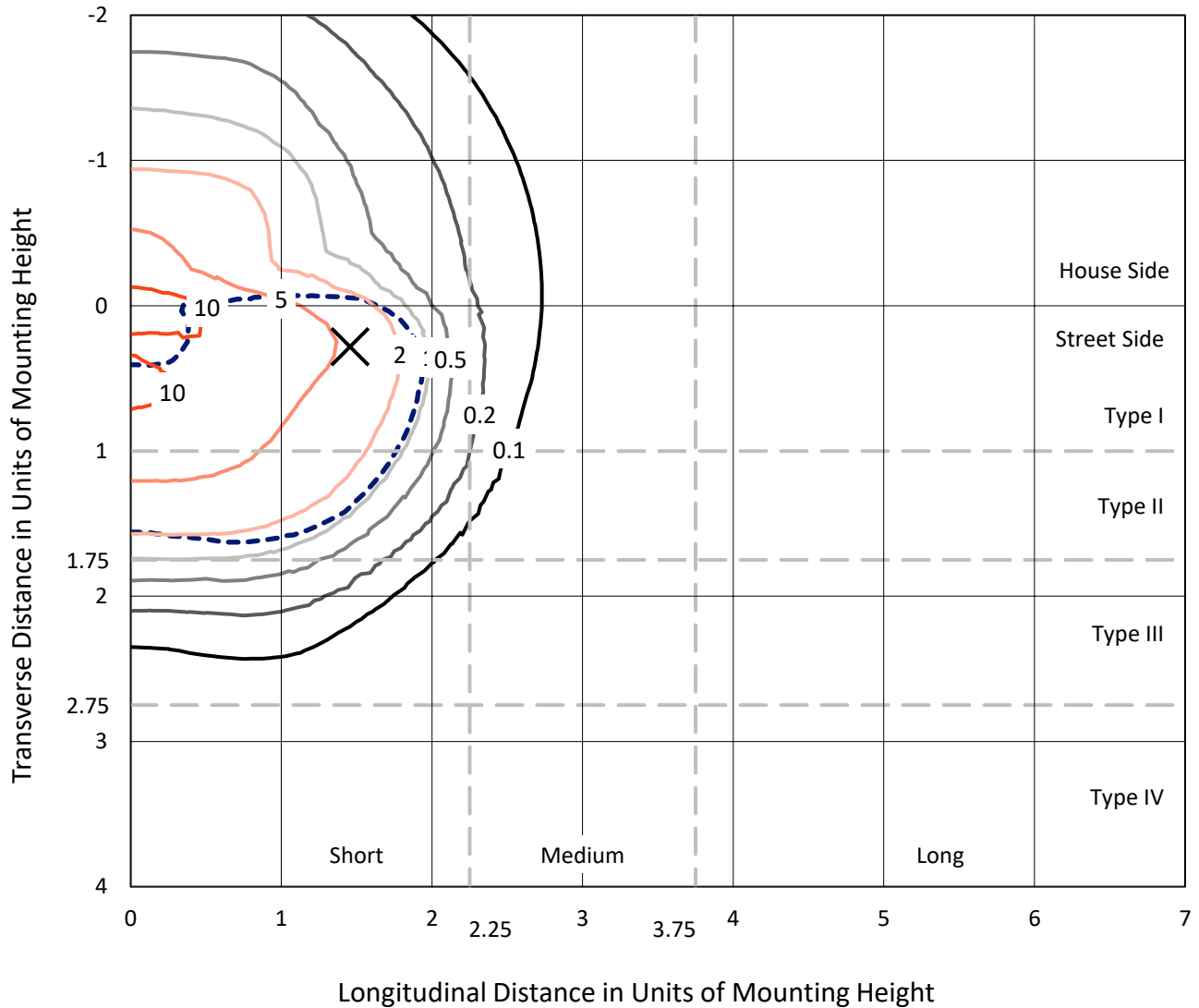
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

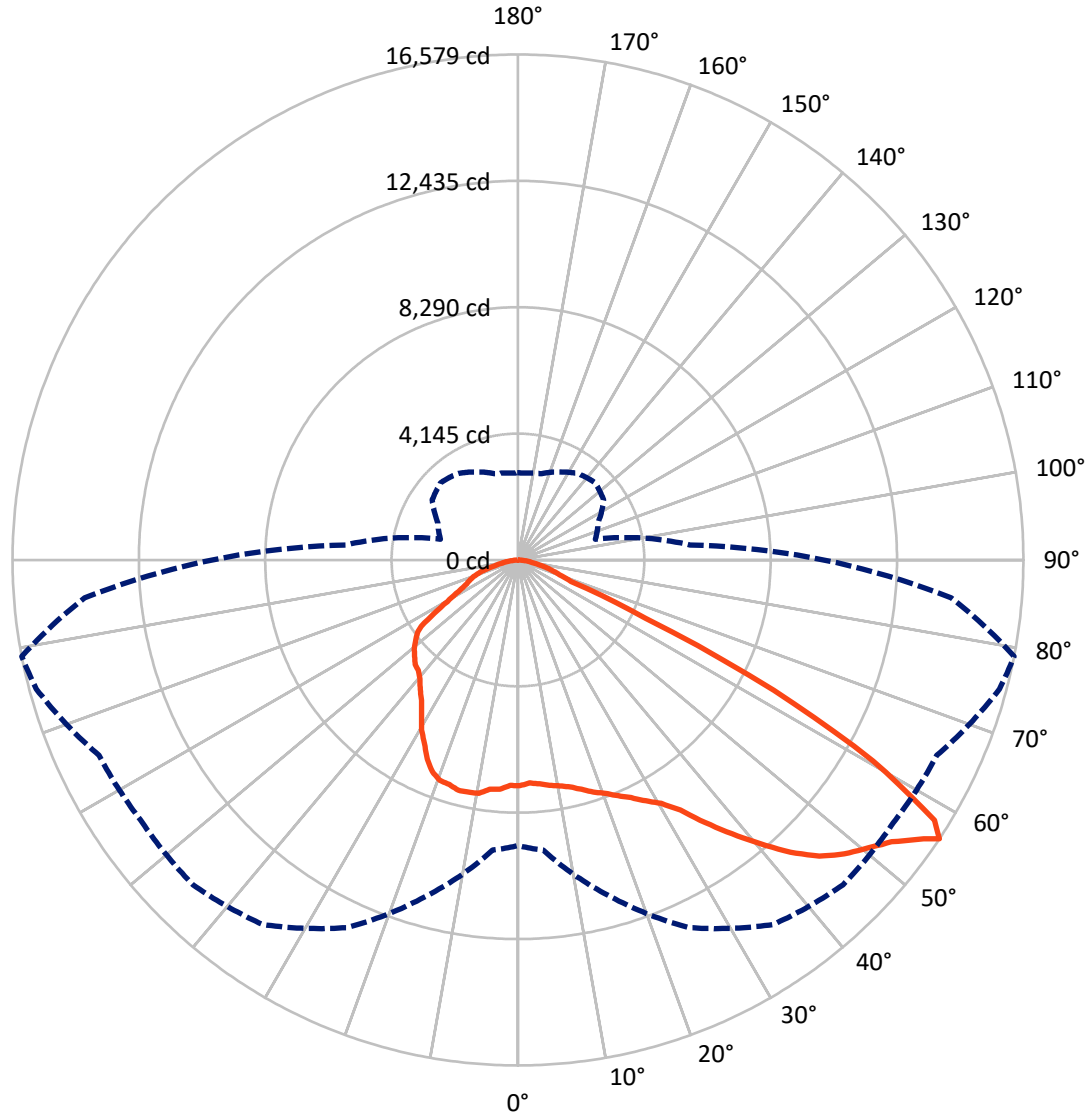
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8544.8	0.0	8544.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20389.2	0.0	20389.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	28934.0	0.0	28934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.1	2.3
10°-20°	1842.0	6.4
20°-30°	3151.4	10.9
30°-40°	4829.9	16.7
40°-50°	6527.5	22.6
50°-60°	7497.1	25.9
60°-70°	3417.4	11.8
70°-80°	842.6	2.9
80°-90°	153.1	0.5
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°	28934.0	100.0
0°-180°	28934.0	100.0

Coefficient of Utilization

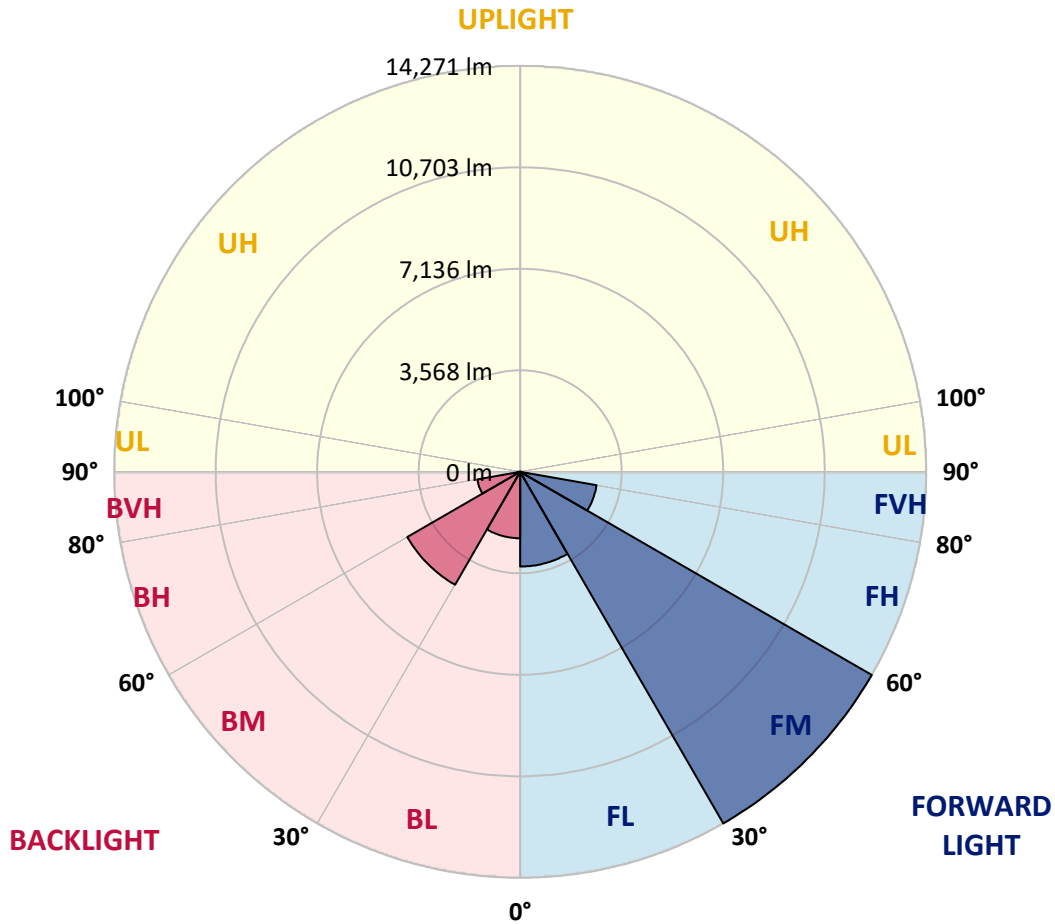


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3329.1	11.5			
FM (30°-60°)	14271.1	49.3			
FH (60°-80°)	2727.8	9.4			G2/5000
FVH (80°-90°)	61.1	0.2			G1/100
BL (0°-30°)	2337.4	8.1	B3/2500		
BM (30°-60°)	4583.3	15.8	B3/5000		
BH (60°-80°)	1532.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	92.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1
2.5°	7042.6	7024.6	7067.9	7100.3	7140.0	7190.4	7215.6	7230.1	7356.2	7323.8	7421.1
5°	6891.3	6844.4	6876.8	6902.1	6970.6	7031.8	7100.3	7208.4	7323.8	7374.2	7493.2
7.5°	6757.9	6732.7	6725.5	6743.5	6837.2	6916.5	7035.4	7194.0	7381.4	7464.3	7532.8
10°	6538.1	6502.0	6556.1	6675.0	6700.2	6866.0	7003.0	7230.1	7392.3	7536.4	7738.3
12.5°	6440.7	6404.7	6415.5	6484.0	6660.6	6819.2	6981.4	7237.3	7579.7	7637.3	7907.7
15°	6595.7	6559.7	6570.5	6552.5	6721.9	6804.8	7060.7	7381.4	7709.4	7806.7	8095.1
17.5°	6948.9	6952.5	6905.7	6866.0	6826.4	7003.0	7179.6	7467.9	7759.9	8005.0	8221.2
20°	7622.9	7504.0	7410.3	7186.8	7125.5	7201.2	7424.7	7702.2	7965.3	8167.2	8412.2
22.5°	8141.9	8152.7	8019.4	7651.8	7518.4	7550.8	7741.9	7968.9	8257.3	8401.4	8682.6
25°	8895.2	8819.5	8675.4	8383.4	8084.3	8109.5	8250.1	8455.5	8534.8	8635.7	8942.1
27.5°	9583.6	9605.2	9320.5	9046.6	8675.4	8603.3	8855.6	8891.6	8758.3	8949.3	9053.8
30°	10282.8	10264.8	10077.4	9756.6	9392.6	9407.0	9518.7	9342.1	9158.3	9262.8	9334.9
32.5°	11007.3	10801.8	10794.6	10506.3	10228.8	10095.4	9958.5	10045.0	9760.2	9781.8	9713.4
35°	11587.6	11616.4	11450.6	11245.2	11108.2	10873.9	10499.1	10654.1	10600.0	10574.8	10279.2
37.5°	12009.3	11897.5	11980.4	11911.9	11782.2	11490.2	11101.0	11248.8	11274.0	11396.5	11054.1
40°	12355.3	12308.4	12528.3	12564.3	12474.2	11843.5	11144.2	11584.0	11962.4	12229.1	11821.8
42.5°	12521.1	12622.0	12852.6	13130.2	12928.3	12254.3	11367.7	11839.9	12683.2	13104.9	12549.9
45°	12744.5	12614.8	12957.2	13465.4	13469.0	12600.3	11584.0	12185.9	13245.5	13858.2	13047.3
47.5°	12517.5	12582.3	12935.5	13580.7	13746.5	12964.4	12167.8	12676.0	13865.4	14409.7	13508.6
50°	12009.3	12139.0	12784.2	13454.5	13955.5	13350.0	12838.2	13205.9	14438.5	14853.0	13584.3
52.5°	11479.4	11551.5	12560.7	13551.9	14049.2	13847.4	13735.7	13937.5	15137.7	15354.0	13678.0
55°	10037.7	10380.1	11821.8	13508.6	14507.0	14744.9	14658.4	14953.9	15930.6	16146.9	14189.8
56°	9371.0	9551.2	11378.5	13306.8	14597.1	15072.8	15029.6	15162.9	16352.3	16579.4	14269.1
57.5°	8138.3	8152.7	9702.6	12412.9	14258.3	15170.2	15126.9	15231.4	16269.4	16114.5	13573.5
60°	5092.8	5316.2	6602.9	9547.6	12124.6	14074.5	14319.6	13479.8	13717.7	13389.7	10560.4
62.5°	2638.3	2605.8	3460.0	5582.9	8048.2	10077.4	10304.5	10264.8	9897.2	9417.8	6898.5
65°	1315.5	1322.7	1809.3	2764.4	4123.2	5276.6	5910.9	5979.4	5002.7	4602.6	3272.6
67.5°	955.1	991.2	1301.1	1690.4	1942.7	2173.3	2663.5	2613.1	1978.7	1881.4	1744.4
70°	742.5	774.9	1056.0	1290.3	1171.4	1171.4	1275.9	1319.1	1409.2	1448.9	1495.8
72.5°	540.6	565.9	807.3	890.2	767.7	825.4	955.1	1056.0	1149.7	1164.2	1218.2
75°	371.2	392.9	529.8	490.2	461.3	569.5	699.2	792.9	861.4	897.5	929.9
77.5°	241.5	248.7	302.8	255.9	295.5	367.6	454.1	533.4	601.9	630.7	637.9
80°	108.1	118.9	129.8	162.2	205.4	263.1	324.4	389.3	432.5	443.3	464.9
82.5°	61.3	61.3	79.3	115.3	151.4	191.0	234.3	281.1	331.6	342.4	338.8
85°	32.4	32.4	46.9	68.5	93.7	111.7	108.1	111.7	118.9	137.0	133.4
87.5°	10.8	10.8	14.4	14.4	18.0	21.6	18.0	25.2	32.4	32.4	32.4
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°	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1
2.5°	7392.3	7424.7	7381.4	7475.1	7475.1	7457.1	7367.0	7395.9	7417.5	7417.5	7435.5
5°	7532.8	7522.0	7550.8	7439.1	7370.6	7345.4	7197.6	7125.5	7064.3	7060.7	7006.6
7.5°	7612.1	7583.3	7572.5	7489.6	7186.8	7003.0	6685.8	6502.0	6462.4	6321.8	6375.9
10°	7738.3	7792.3	7738.3	7287.7	6866.0	6444.3	6134.4	5849.6	5737.9	5647.8	5593.7
12.5°	7997.8	7972.5	7659.0	7049.9	6458.8	5957.8	5496.4	5197.3	5085.6	5006.3	4999.1
15°	8217.6	8091.5	7612.1	6675.0	5824.4	5291.0	4912.5	4699.9	4649.4	4656.7	4689.1
17.5°	8293.3	8206.8	7367.0	6285.8	5352.3	4725.1	4548.5	4516.1	4562.9	4617.0	4631.4
20°	8412.2	8275.3	7266.1	5755.9	4768.4	4371.9	4361.1	4476.4	4562.9	4642.2	4653.0
22.5°	8660.9	8314.9	6938.1	5255.0	4368.3	4267.4	4371.9	4469.2	4602.6	4667.5	4609.8
25°	8733.0	8228.4	6476.8	4653.0	4116.0	4202.5	4314.2	4447.6	4541.3	4577.4	4602.6
27.5°	8794.3	8095.1	5853.3	4253.0	4036.7	4198.9	4314.2	4426.0	4476.4	4508.9	4537.7
30°	8967.3	8055.4	5312.6	3986.3	3986.3	4126.8	4274.6	4303.4	4371.9	4411.6	4462.0
32.5°	9053.8	7781.5	4757.6	3816.9	3935.8	4162.9	4173.7	4227.7	4231.4	4263.8	4209.7
35°	9280.9	7586.9	4242.2	3694.3	3957.4	4126.8	4180.9	4148.5	3971.8	3885.3	3903.4
37.5°	9446.7	7489.6	3870.9	3679.9	3961.0	4166.5	4195.3	3950.2	3766.4	3622.2	3658.3
40°	9893.6	7248.1	3589.8	3654.7	3993.5	4209.7	4130.4	3863.7	3532.1	3384.4	3359.1
42.5°	10236.0	7075.1	3413.2	3625.8	4018.7	4271.0	4098.0	3690.7	3351.9	3215.0	3251.0
45°	10632.4	7035.4	3319.5	3633.1	4062.0	4303.4	4058.4	3557.4	3196.9	3142.9	3132.1
47.5°	10773.0	6750.7	3218.6	3571.8	4051.1	4292.6	3925.0	3456.4	3139.3	3146.5	3175.3
50°	10538.7	6458.8	3142.9	3445.6	3979.1	4195.3	3715.9	3323.1	3106.8	3196.9	3247.4
52.5°	10239.6	6159.6	2987.9	3276.2	3831.3	4043.9	3618.6	3315.9	3074.4	3045.6	3056.4
55°	10329.7	5914.5	2771.6	3045.6	3593.4	3762.8	3510.5	3247.4	2995.1	2887.0	2923.0
56°	10037.7	5662.2	2631.1	2901.4	3431.2	3582.6	3456.4	3186.1	2930.2	2858.1	2858.1
57.5°	9212.4	4815.2	2447.3	2670.7	3088.8	3269.0	3351.9	3150.1	2858.1	2732.0	2735.6
60°	6794.0	3424.0	2195.0	2353.6	2559.0	2703.2	3088.8	3049.2	2677.9	2591.4	2559.0
62.5°	4188.1	2501.3	2014.8	2076.0	2180.6	2299.5	2696.0	2760.8	2486.9	2393.2	2371.6
65°	2346.3	1913.8	1877.8	1903.0	1953.5	2014.8	2238.2	2382.4	2195.0	2050.8	2043.6
67.5°	1715.6	1712.0	1740.8	1762.5	1784.1	1784.1	1838.2	1895.8	1870.6	1755.3	1744.4
70°	1524.6	1535.4	1557.0	1560.6	1567.8	1542.6	1499.4	1481.3	1510.2	1438.1	1423.7
72.5°	1257.9	1293.9	1319.1	1322.7	1283.1	1250.7	1193.0	1131.7	1110.1	1095.7	1092.1
75°	965.9	991.2	1002.0	998.4	984.0	937.1	868.6	807.3	767.7	724.4	746.1
77.5°	652.4	688.4	706.4	706.4	684.8	612.7	580.3	533.4	493.8	446.9	454.1
80°	457.7	483.0	511.8	508.2	472.2	436.1	389.3	346.0	313.6	277.5	273.9
82.5°	342.4	356.8	371.2	364.0	338.8	302.8	270.3	230.7	194.6	169.4	169.4
85°	122.5	133.4	162.2	169.4	183.8	183.8	155.0	129.8	104.5	86.5	86.5
87.5°	36.0	36.0	39.6	39.6	36.0	39.6	32.4	36.0	39.6	25.2	25.2
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)