

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: P531492

Luminaire Tested: **GALN-SA6D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37552 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

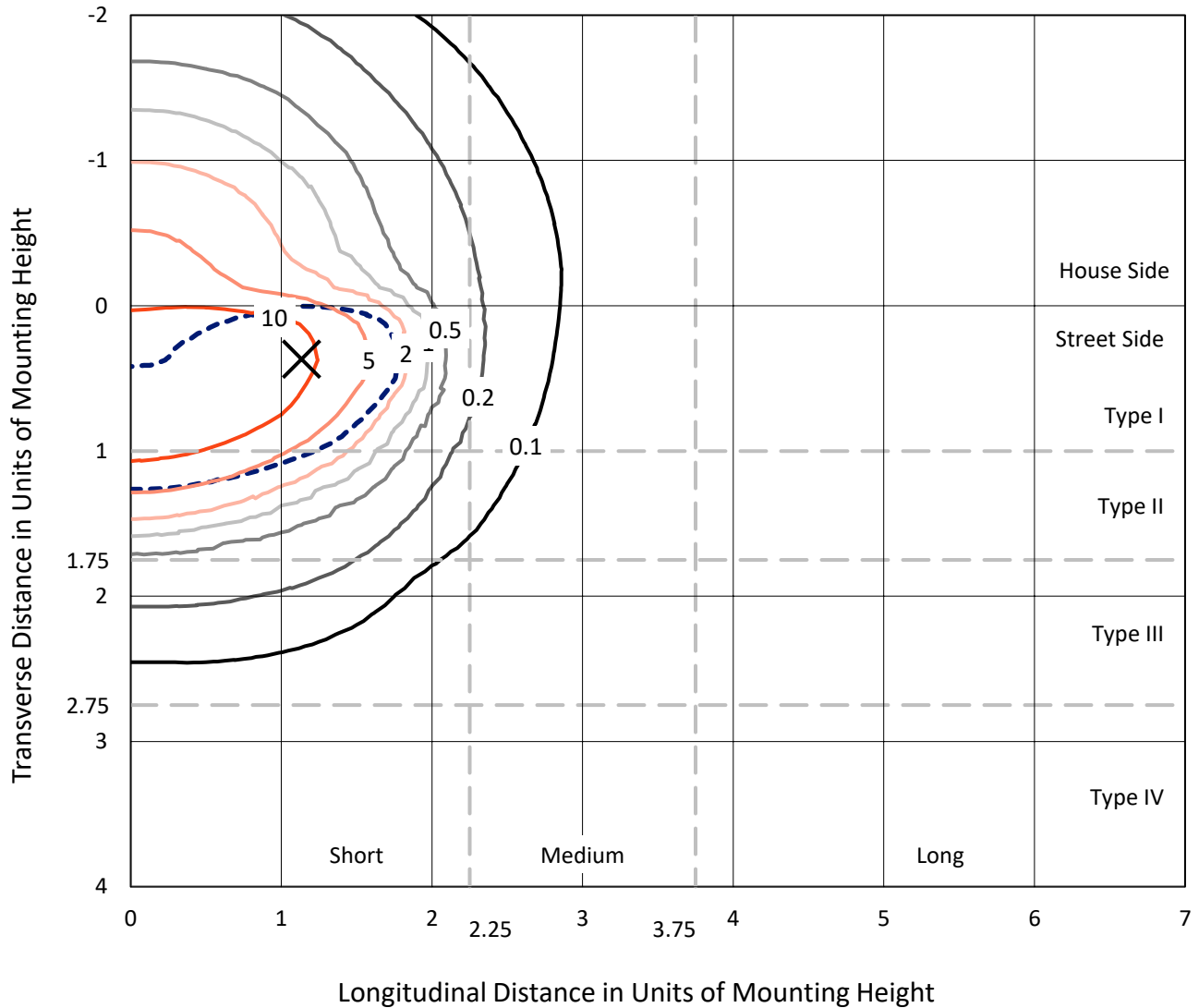
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

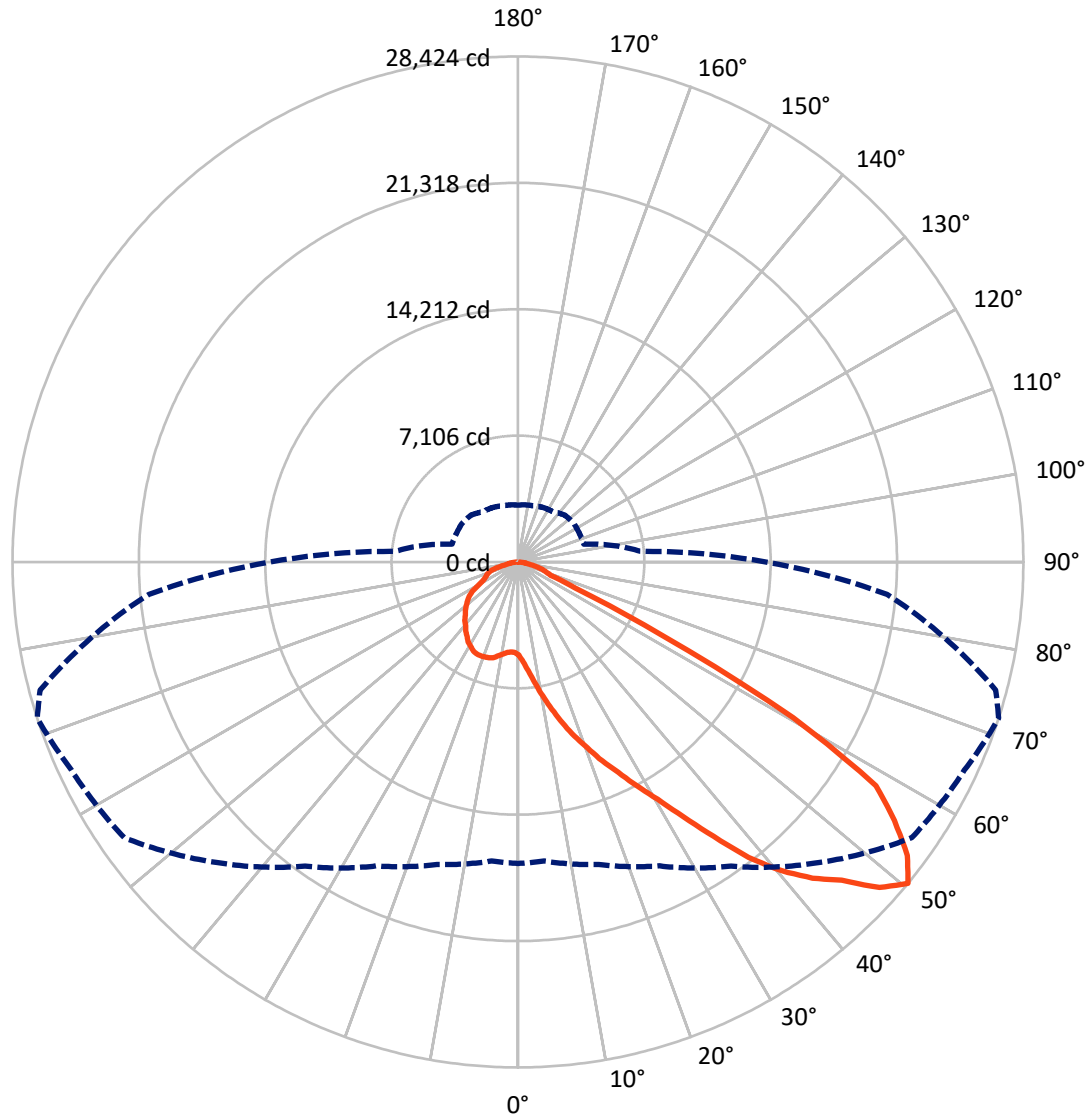
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8603.4	0.0	8603.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28948.6	0.0	28948.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	37552.0	0.0	37552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.9	1.6
10°-20°	2298.7	6.1
20°-30°	4457.0	11.9
30°-40°	7383.7	19.7
40°-50°	10331.4	27.5
50°-60°	8715.8	23.2
60°-70°	2656.6	7.1
70°-80°	932.0	2.5
80°-90°	162.0	0.4
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°	37552.0	100.0
0°-180°	37552.0	100.0

Coefficient of Utilization



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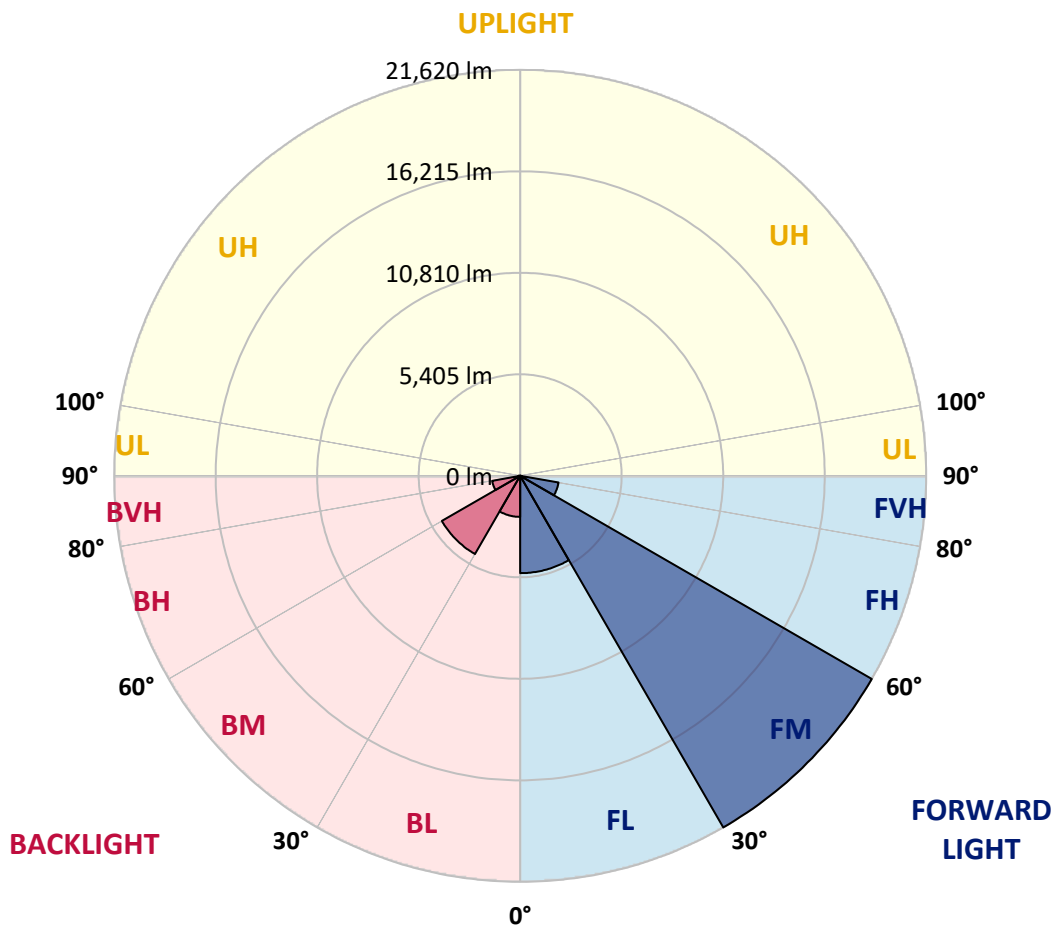
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5183.5	13.8			
FM (30°-60°)	21619.7	57.6			
FH (60°-80°)	2072.8	5.5			G2/5000
FVH (80°-90°)	72.6	0.2			G1/100
BL (0°-30°)	2187.0	5.8	B3/2500		
BM (30°-60°)	4811.2	12.8	B3/5000		
BH (60°-80°)	1515.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.2			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°	72°	75°	85°
0°	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6
2.5°	6723.8	6682.0	6556.5	6514.7	6366.0	6096.5	6003.6	5729.4	5613.2	5506.4	5380.9
5°	8503.5	8308.3	8294.4	8057.4	7713.6	7513.7	6919.0	6519.3	6152.3	5966.4	5622.5
7.5°	9637.3	9641.9	9641.9	9446.8	9172.6	8666.1	8131.8	7411.5	6858.6	6584.4	5998.9
10°	10715.3	10622.4	10571.3	10552.7	10366.8	9874.3	9302.7	8410.6	7653.1	7332.5	6282.4
12.5°	11477.4	11398.4	11514.6	11454.2	11319.4	10998.8	10459.8	9442.1	8494.2	8062.1	6737.7
15°	11839.8	11895.6	11988.5	12155.8	12095.4	11974.6	11379.8	10501.6	9400.3	8912.4	7142.0
17.5°	12397.4	12244.1	12355.6	12564.7	12732.0	12676.2	12337.0	11268.3	10297.1	9697.7	7685.7
20°	12787.8	12699.5	12755.2	12996.9	13122.3	13438.3	13261.7	12272.0	11156.8	10524.8	8326.9
22.5°	13903.0	13772.9	13591.7	13628.8	13675.3	13898.3	13940.2	13373.3	12155.8	11486.7	8935.6
25°	15278.4	15157.6	14943.8	14725.5	14590.7	14548.9	14692.9	14237.5	13113.0	12420.7	9590.8
27.5°	16793.2	16588.8	16454.0	16003.3	15640.9	15585.1	15515.4	15269.1	14246.8	13498.7	10329.7
30°	18266.3	18103.6	17922.4	17202.2	16825.8	16765.4	16421.5	16491.2	15478.2	14646.5	11166.1
32.5°	19381.5	19395.4	18981.8	18438.2	18085.0	17764.4	17638.9	17838.8	17058.1	16389.0	12100.1
35°	20282.9	20324.7	19929.8	19437.2	19056.2	19279.2	19223.5	19316.4	18944.7	18126.8	13187.4
37.5°	21161.2	20952.1	20529.2	20292.2	20092.4	20459.5	20933.5	21012.5	21082.2	20120.3	14451.3
40°	21305.2	21323.8	21077.5	21244.8	20993.9	21546.8	22648.1	22545.9	22829.3	21988.3	15822.1
42.5°	21100.8	21142.6	21240.2	21477.1	22081.2	22745.7	24381.3	23963.1	24307.0	23558.9	17155.7
45°	20766.2	20594.3	20715.1	21616.5	22662.0	24139.7	25965.9	25640.6	25529.1	24901.8	18744.9
47.5°	19167.7	19344.3	19720.7	20831.2	22401.8	24381.3	27090.4	27016.0	27350.6	26909.1	20190.0
50°	16951.2	16881.5	17606.4	18856.4	20882.4	23907.4	27030.0	27703.7	28424.0	27810.6	20835.9
52.5°	12694.8	13066.6	13689.2	15241.2	18131.5	21323.8	25710.3	26834.8	27420.3	27290.2	20315.5
55°	8024.9	8136.4	8512.8	10357.5	12959.7	17113.9	22039.4	24646.2	25691.7	26179.6	19836.8
57.5°	3898.6	3689.5	4149.5	5631.8	7485.9	11509.9	16997.7	21467.8	23740.1	24623.0	18796.0
60°	2035.3	2114.3	2295.5	2825.2	3870.7	5975.7	10594.5	14307.2	17778.3	19135.2	14246.8
62.5°	1686.8	1714.6	1835.5	2100.3	2574.3	3438.6	5408.8	6974.7	9065.7	10287.8	8103.9
65°	1431.2	1445.1	1575.2	1751.8	2053.8	2420.9	2783.4	2913.5	3526.9	3619.8	2881.0
67.5°	1194.2	1208.1	1347.5	1514.8	1710.0	1807.6	1900.5	1891.2	1960.9	1933.0	1928.4
70°	920.1	934.0	1078.0	1254.6	1352.2	1296.4	1584.5	1649.6	1677.5	1700.7	1737.9
72.5°	664.5	692.4	803.9	929.3	878.2	1008.3	1305.7	1403.3	1440.5	1454.4	1500.9
75°	483.3	492.6	520.4	483.3	557.6	701.7	920.1	1040.9	1087.3	1101.3	1171.0
77.5°	213.7	218.4	223.0	278.8	357.8	436.8	548.3	645.9	710.9	729.5	748.1
80°	111.5	116.2	144.0	190.5	255.6	320.6	399.6	455.4	497.2	501.8	520.4
82.5°	69.7	74.3	102.2	134.8	181.2	237.0	292.7	339.2	371.7	376.4	381.0
85°	32.5	41.8	60.4	83.6	120.8	153.3	158.0	134.8	144.0	148.7	139.4
87.5°	9.3	13.9	18.6	13.9	18.6	18.6	23.2	27.9	27.9	27.9	32.5
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°	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6	5227.6
2.5°	5311.2	5269.4	5106.7	5046.3	4888.3	4916.2	4832.6	4827.9	4809.4	4804.7	4800.1
5°	5441.3	5311.2	5116.0	4967.3	4879.1	4869.8	4809.4	4809.4	4827.9	4841.9	4809.4
7.5°	5655.1	5506.4	5176.4	5037.0	4958.0	4944.1	4902.3	4869.8	4911.6	4897.6	4860.5
10°	5901.3	5641.1	5292.6	5171.8	5041.7	5009.2	5009.2	5023.1	4953.4	4976.6	4939.5
12.5°	6175.5	5827.0	5441.3	5301.9	5148.6	5130.0	5120.7	5018.5	5055.6	5037.0	4944.1
15°	6524.0	6040.7	5631.8	5394.8	5264.7	5181.1	5060.3	5041.7	5018.5	4972.0	4930.2
17.5°	6900.4	6273.1	5720.1	5422.7	5227.6	5167.2	5074.2	4976.6	4906.9	4916.2	4883.7
20°	7221.0	6486.8	5752.6	5450.6	5199.7	5083.5	4939.5	4879.1	4804.7	4800.1	4795.4
22.5°	7602.0	6774.9	5799.1	5376.3	5116.0	4995.2	4897.6	4790.8	4739.7	4674.6	4707.1
25°	8057.4	6886.4	5808.4	5334.4	5055.6	4841.9	4790.8	4674.6	4656.0	4563.1	4581.7
27.5°	8387.3	6946.8	5734.1	5204.3	4916.2	4753.6	4660.7	4577.0	4544.5	4474.8	4456.2
30°	8828.8	7039.8	5576.1	5041.7	4776.8	4595.6	4539.8	4521.3	4428.3	4354.0	4344.7
32.5°	9330.6	7100.2	5473.8	4874.4	4632.8	4493.4	4521.3	4433.0	4316.8	4251.7	4233.2
35°	9730.2	7123.4	5218.3	4683.9	4535.2	4446.9	4414.4	4395.8	4228.5	4168.1	4121.6
37.5°	10338.9	7072.3	5004.5	4549.1	4428.3	4395.8	4367.9	4242.5	4051.9	3963.7	3898.6
40°	11049.9	7058.4	4730.4	4358.6	4326.1	4363.3	4279.6	4084.5	3819.6	3722.0	3675.6
42.5°	11733.0	7155.9	4558.4	4256.4	4214.6	4228.5	4112.3	3819.6	3689.5	3633.7	3559.4
45°	12876.1	7360.4	4275.0	4098.4	4079.8	4070.5	3931.1	3624.4	3550.1	3480.4	3466.5
47.5°	13907.6	7225.6	4093.8	3935.8	3954.4	3903.2	3605.9	3508.3	3424.6	3354.9	3331.7
50°	13968.0	6905.0	3838.2	3810.3	3815.0	3726.7	3443.2	3378.2	3271.3	3224.8	3192.3
52.5°	13652.1	6379.9	3601.2	3610.5	3624.4	3480.4	3243.4	3196.9	3108.7	3043.6	3025.0
55°	12764.5	5562.1	3368.9	3406.0	3443.2	3169.1	3094.7	2978.5	2908.8	2815.9	2820.6
57.5°	11245.1	4479.4	3043.6	3104.0	3183.0	2881.0	2825.2	2681.2	2578.9	2504.6	2495.3
60°	7537.0	3187.6	2555.7	2578.9	2755.5	2634.7	2630.0	2486.0	2346.6	2281.5	2244.4
62.5°	4446.9	2434.9	2207.2	2184.0	2179.3	2249.0	2365.2	2314.1	2132.8	2007.4	2044.6
65°	2328.0	2105.0	2053.8	1974.9	1928.4	1909.8	1998.1	2021.3	1900.5	1765.8	1756.5
67.5°	1956.3	1956.3	1914.4	1886.6	1821.5	1742.5	1686.8	1612.4	1593.8	1556.7	1510.2
70°	1779.7	1826.2	1812.2	1747.2	1691.4	1603.1	1459.1	1338.3	1222.1	1180.3	1208.1
72.5°	1552.0	1598.5	1598.5	1565.9	1491.6	1356.8	1217.4	1078.0	980.5	906.1	896.8
75°	1194.2	1217.4	1273.2	1236.0	1138.4	1054.8	910.8	766.7	673.8	604.1	590.1
77.5°	762.1	799.2	799.2	794.6	724.9	645.9	553.0	450.7	381.0	329.9	316.0
80°	506.5	529.7	548.3	529.7	483.3	422.9	353.2	283.4	232.3	190.5	181.2
82.5°	371.7	399.6	413.6	395.0	348.5	302.0	250.9	199.8	148.7	116.2	106.9
85°	144.0	148.7	167.3	199.8	195.2	190.5	153.3	111.5	83.6	60.4	55.8
87.5°	37.2	32.5	37.2	37.2	32.5	27.9	27.9	27.9	27.9	13.9	18.6
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)