

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: P530326

Luminaire Tested: **GALN-SA5C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530326
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-SA5C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 28631 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

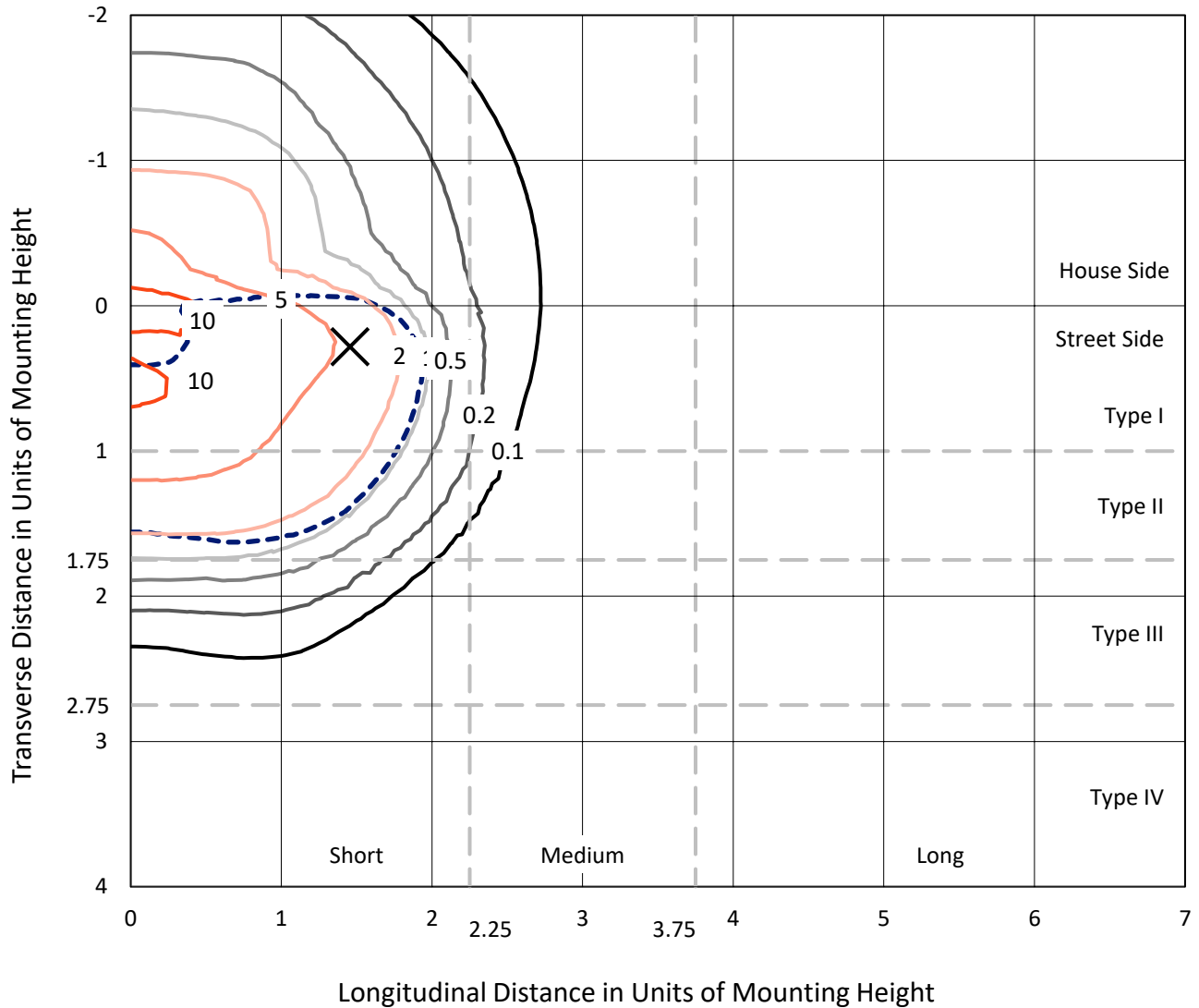
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530326
 CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

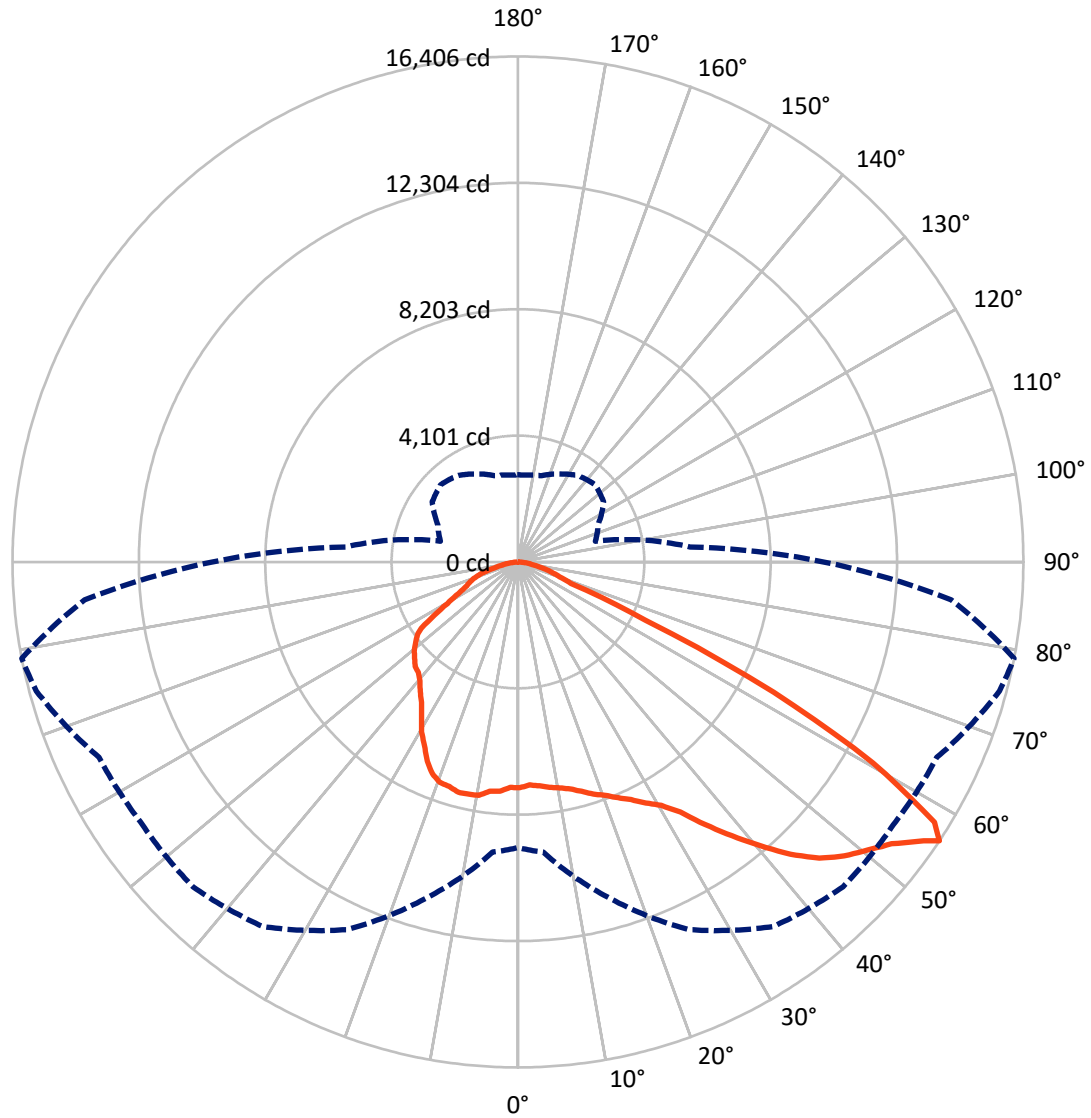
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

REPORT NUMBER: P530326
CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530326
 CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8455.4	0.0	8455.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20175.7	0.0	20175.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	28631.0	0.0	28631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.0	2.3
10°-20°	1822.7	6.4
20°-30°	3118.4	10.9
30°-40°	4779.3	16.7
40°-50°	6459.2	22.6
50°-60°	7418.6	25.9
60°-70°	3381.6	11.8
70°-80°	833.7	2.9
80°-90°	151.5	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°	28631.0	100.0
0°-180°	28631.0	100.0

Coefficient of Utilization

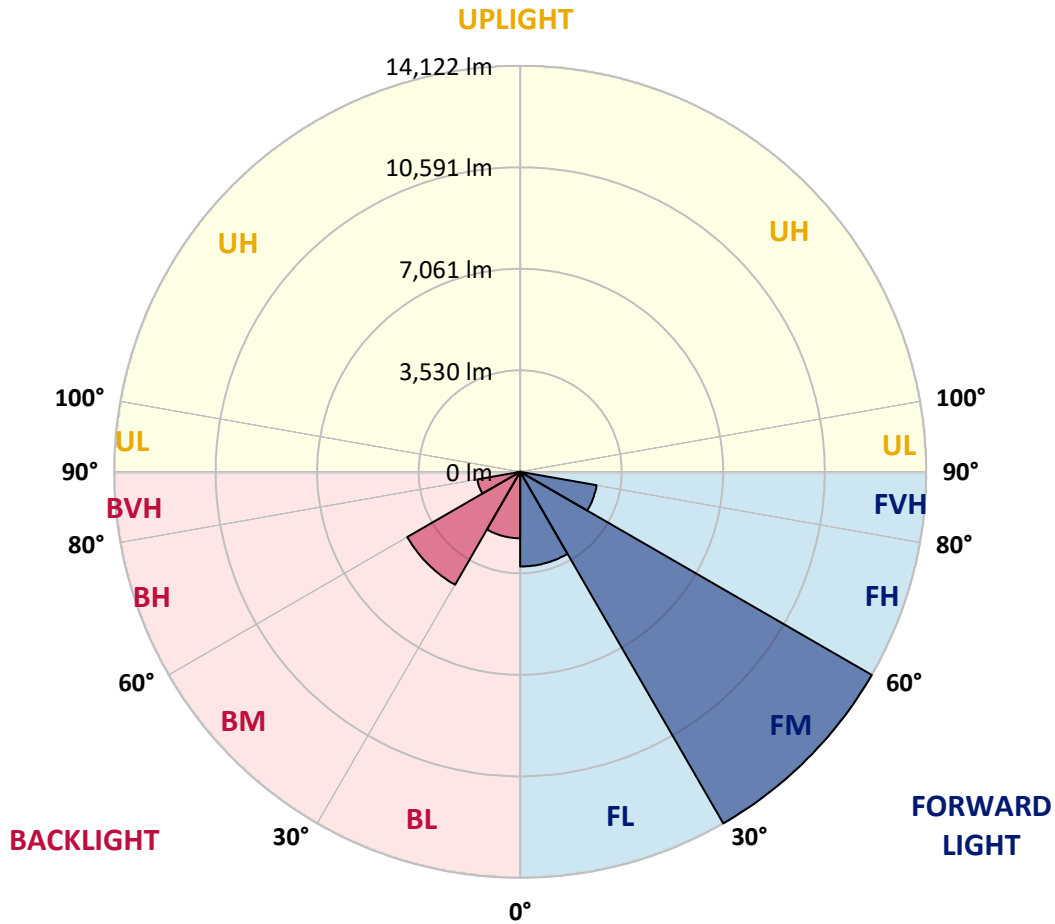


REPORT NUMBER: P530326
 CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3294.2	11.5			
FM (30°-60°)	14121.7	49.3			
FH (60°-80°)	2699.3	9.4			G2/5000
FVH (80°-90°)	60.5	0.2			G1/100
BL (0°-30°)	2312.9	8.1	B3/2500		
BM (30°-60°)	4535.3	15.8	B3/5000		
BH (60°-80°)	1516.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	91.0	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





REPORT NUMBER: P530326

CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5
2.5°	6968.9	6951.1	6993.9	7026.0	7065.2	7115.1	7140.1	7154.3	7279.2	7247.1	7343.4
5°	6819.1	6772.7	6804.8	6829.8	6897.6	6958.2	7026.0	7132.9	7247.1	7297.0	7414.7
7.5°	6687.1	6662.2	6655.0	6672.9	6765.6	6844.1	6961.8	7118.7	7304.1	7386.2	7453.9
10°	6469.6	6433.9	6487.4	6605.1	6630.1	6794.1	6929.7	7154.3	7314.8	7457.5	7657.2
12.5°	6373.3	6337.6	6348.3	6416.1	6590.8	6747.8	6908.3	7161.5	7500.3	7557.4	7824.8
15°	6526.6	6491.0	6501.7	6483.9	6651.5	6733.5	6986.7	7304.1	7628.7	7725.0	8010.3
17.5°	6876.2	6879.7	6833.4	6794.1	6754.9	6929.7	7104.4	7389.7	7678.6	7921.1	8135.1
20°	7543.1	7425.4	7332.7	7111.6	7050.9	7125.8	7346.9	7621.6	7881.9	8081.6	8324.2
22.5°	8056.7	8067.4	7935.4	7571.6	7439.7	7471.8	7660.8	7885.5	8170.8	8313.5	8591.6
25°	8802.1	8727.2	8584.5	8295.6	7999.6	8024.6	8163.7	8366.9	8445.4	8545.3	8848.4
27.5°	9483.3	9504.7	9222.9	8951.9	8584.5	8513.2	8762.8	8798.5	8666.5	8855.6	8959.0
30°	10175.2	10157.3	9971.9	9654.4	9294.2	9308.5	9419.1	9244.3	9062.4	9165.8	9237.2
32.5°	10892.0	10688.7	10681.6	10396.3	10121.7	9989.7	9854.2	9939.8	9658.0	9679.4	9611.6
35°	11466.2	11494.7	11330.7	11127.4	10991.9	10760.1	10389.1	10542.5	10489.0	10464.0	10171.6
37.5°	11883.5	11772.9	11855.0	11787.2	11658.8	11369.9	10984.7	11131.0	11155.9	11277.2	10938.4
40°	12225.9	12179.5	12397.1	12432.7	12343.6	11719.4	11027.5	11462.6	11837.1	12101.0	11698.0
42.5°	12389.9	12489.8	12718.0	12992.7	12792.9	12126.0	11248.7	11715.9	12550.4	12967.7	12418.5
45°	12611.1	12482.7	12821.5	13324.3	13327.9	12468.4	11462.6	12058.3	13106.8	13713.1	12910.6
47.5°	12386.4	12450.6	12800.1	13438.5	13602.5	12828.6	12040.4	12543.3	13720.2	14258.8	13367.1
50°	11883.5	12011.9	12650.3	13313.7	13809.4	13210.2	12703.8	13067.6	14287.3	14697.4	13442.0
52.5°	11359.2	11430.6	12429.2	13409.9	13902.1	13702.4	13591.8	13791.6	14979.2	15193.2	13534.8
55°	9932.6	10271.4	11698.0	13367.1	14355.1	14590.4	14504.9	14797.3	15763.8	15977.8	14041.2
56°	9272.8	9451.2	11259.4	13167.4	14444.2	14915.0	14872.2	15004.2	16181.1	16405.8	14119.7
57.5°	8053.1	8067.4	9601.0	12282.9	14109.0	15011.3	14968.5	15071.9	16099.1	15945.7	13431.3
60°	5039.4	5260.6	6533.8	9447.6	11997.6	13927.1	14169.6	13338.6	13574.0	13249.5	10449.8
62.5°	2610.7	2578.6	3423.8	5524.5	7963.9	9971.9	10196.6	10157.3	9793.5	9319.2	6826.2
65°	1301.8	1308.9	1790.4	2735.5	4080.0	5221.3	5849.0	5916.8	4950.3	4554.4	3238.4
67.5°	945.1	980.8	1287.5	1672.7	1922.3	2150.6	2635.6	2585.7	1958.0	1861.7	1726.2
70°	734.7	766.8	1045.0	1276.8	1159.1	1159.1	1262.5	1305.3	1394.5	1433.7	1480.1
72.5°	535.0	559.9	798.9	880.9	759.7	816.7	945.1	1045.0	1137.7	1152.0	1205.5
75°	367.3	388.7	524.3	485.0	456.5	563.5	691.9	784.6	852.4	888.1	920.2
77.5°	239.0	246.1	299.6	253.2	292.5	363.8	449.4	527.8	595.6	624.1	631.3
80°	107.0	117.7	128.4	160.5	203.3	260.4	321.0	385.2	428.0	438.7	460.1
82.5°	60.6	60.6	78.5	114.1	149.8	189.0	231.8	278.2	328.1	338.8	335.2
85°	32.1	32.1	46.4	67.8	92.7	110.6	107.0	110.6	117.7	135.5	132.0
87.5°	10.7	10.7	14.3	14.3	17.8	21.4	17.8	25.0	32.1	32.1	32.1
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: P530326

CATALOG NUMBER: GALN-SA5C-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5	7325.5
2.5°	7314.8	7346.9	7304.1	7396.9	7396.9	7379.0	7289.9	7318.4	7339.8	7339.8	7357.6
5°	7453.9	7443.2	7471.8	7361.2	7293.4	7268.5	7122.3	7050.9	6990.3	6986.7	6933.2
7.5°	7532.4	7503.9	7493.2	7411.1	7111.6	6929.7	6615.8	6433.9	6394.7	6255.6	6309.1
10°	7657.2	7710.7	7657.2	7211.4	6794.1	6376.9	6070.1	5788.4	5677.8	5588.7	5535.2
12.5°	7914.0	7889.0	7578.8	6976.0	6391.1	5895.4	5438.9	5142.9	5032.3	4953.8	4946.7
15°	8131.6	8006.7	7532.4	6605.1	5763.4	5235.6	4861.1	4650.7	4600.8	4607.9	4640.0
17.5°	8206.5	8120.9	7289.9	6219.9	5296.2	4675.6	4500.9	4468.8	4515.2	4568.7	4582.9
20°	8324.2	8188.6	7190.0	5695.7	4718.4	4326.1	4315.4	4429.6	4515.2	4593.6	4604.3
22.5°	8570.2	8227.9	6865.5	5199.9	4322.6	4222.7	4326.1	4422.4	4554.4	4618.6	4561.5
25°	8641.6	8142.3	6409.0	4604.3	4072.9	4158.5	4269.1	4401.0	4493.8	4529.4	4554.4
27.5°	8702.2	8010.3	5792.0	4208.4	3994.5	4154.9	4269.1	4379.6	4429.6	4461.7	4490.2
30°	8873.4	7971.1	5257.0	3944.5	3944.5	4083.6	4229.8	4258.4	4326.1	4365.4	4415.3
32.5°	8959.0	7700.0	4707.7	3776.9	3894.6	4119.3	4130.0	4183.5	4187.0	4219.1	4165.6
35°	9183.7	7507.4	4197.7	3655.6	3916.0	4083.6	4137.1	4105.0	3930.3	3844.7	3862.5
37.5°	9347.7	7411.1	3830.4	3641.4	3919.6	4122.8	4151.4	3908.9	3727.0	3584.3	3620.0
40°	9790.0	7172.2	3552.2	3616.4	3951.7	4165.6	4087.2	3823.3	3495.1	3348.9	3324.0
42.5°	10128.8	7001.0	3377.5	3587.9	3976.6	4226.3	4055.1	3652.1	3316.8	3181.3	3217.0
45°	10521.1	6961.8	3284.7	3595.0	4019.4	4258.4	4015.9	3520.1	3163.5	3110.0	3099.3
47.5°	10660.2	6680.0	3184.9	3534.4	4008.7	4247.7	3883.9	3420.2	3106.4	3113.5	3142.1
50°	10428.4	6391.1	3110.0	3409.5	3937.4	4151.4	3677.0	3288.3	3074.3	3163.5	3213.4
52.5°	10132.4	6095.1	2956.6	3241.9	3791.2	4001.6	3580.7	3281.2	3042.2	3013.7	3024.4
55°	10221.5	5852.6	2742.6	3013.7	3555.8	3723.4	3473.7	3213.4	2963.7	2856.7	2892.4
56°	9932.6	5602.9	2603.5	2871.0	3395.3	3545.1	3420.2	3152.8	2899.5	2828.2	2828.2
57.5°	9115.9	4764.8	2421.6	2642.8	3056.5	3234.8	3316.8	3117.1	2828.2	2703.4	2707.0
60°	6722.8	3388.2	2172.0	2328.9	2532.2	2674.9	3056.5	3017.2	2649.9	2564.3	2532.2
62.5°	4144.2	2475.1	1993.7	2054.3	2157.7	2275.4	2667.7	2731.9	2460.9	2368.1	2346.7
65°	2321.8	1893.8	1858.1	1883.1	1933.0	1993.7	2214.8	2357.4	2172.0	2029.3	2022.2
67.5°	1697.6	1694.1	1722.6	1744.0	1765.4	1765.4	1818.9	1876.0	1851.0	1736.9	1726.2
70°	1508.6	1519.3	1540.7	1544.3	1551.4	1526.5	1483.7	1465.8	1494.4	1423.0	1408.8
72.5°	1244.7	1280.4	1305.3	1308.9	1269.7	1237.6	1180.5	1119.9	1098.5	1084.2	1080.6
75°	955.8	980.8	991.5	987.9	973.6	927.3	859.5	798.9	759.7	716.9	738.3
77.5°	645.5	681.2	699.0	699.0	677.6	606.3	574.2	527.8	488.6	442.2	449.4
80°	452.9	477.9	506.4	502.9	467.2	431.5	385.2	342.4	310.3	274.6	271.1
82.5°	338.8	353.1	367.3	360.2	335.2	299.6	267.5	228.3	192.6	167.6	167.6
85°	121.3	132.0	160.5	167.6	181.9	181.9	153.4	128.4	103.4	85.6	85.6
87.5°	35.7	35.7	39.2	39.2	35.7	39.2	32.1	35.7	39.2	25.0	25.0
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)