

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: P458096

Luminaire Tested: **GALN-SA9C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53606 lumens
Efficiency: N/A
Efficacy: 111.4 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

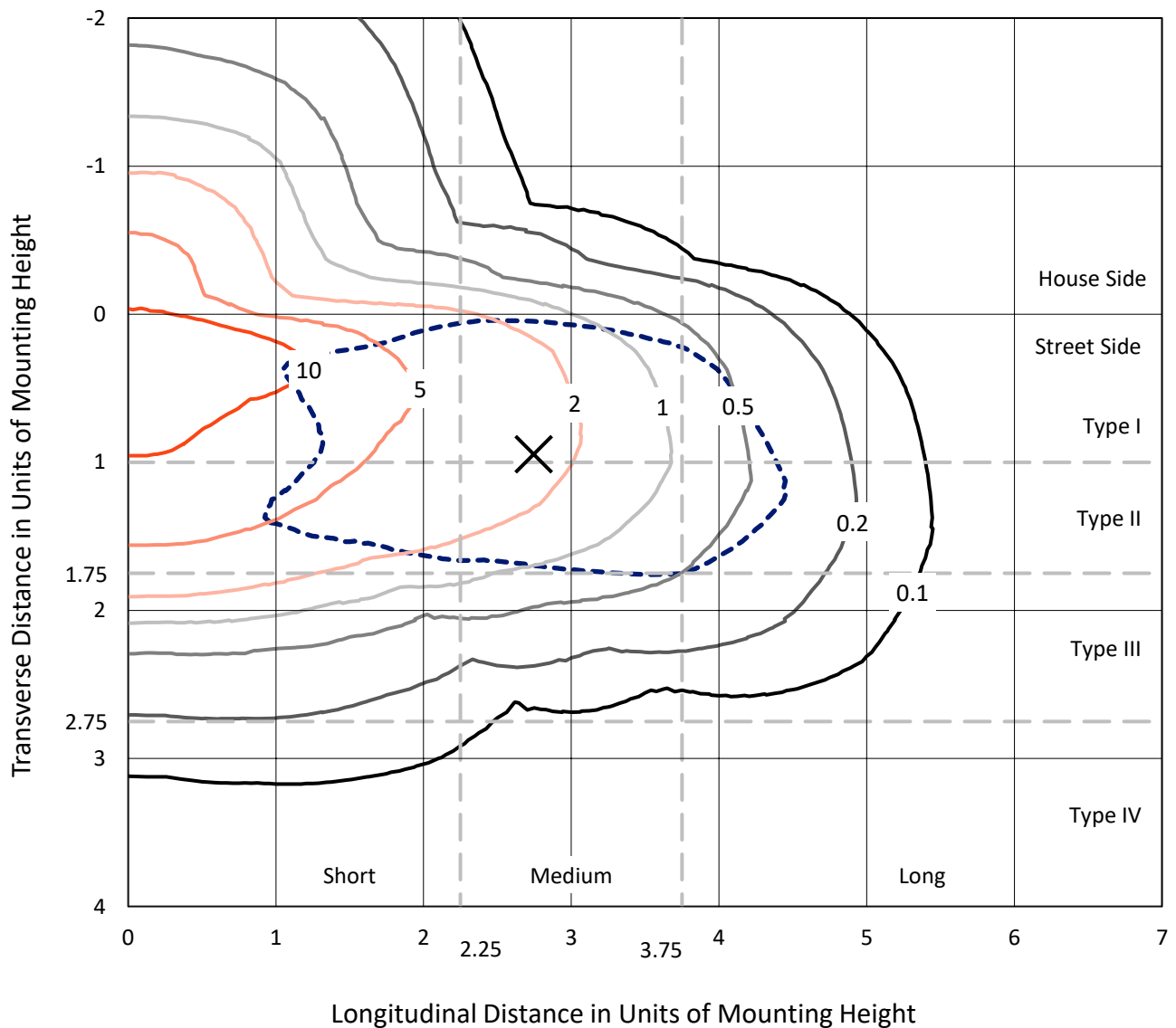
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458096
 CATALOG NUMBER: GALN-SA9C-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

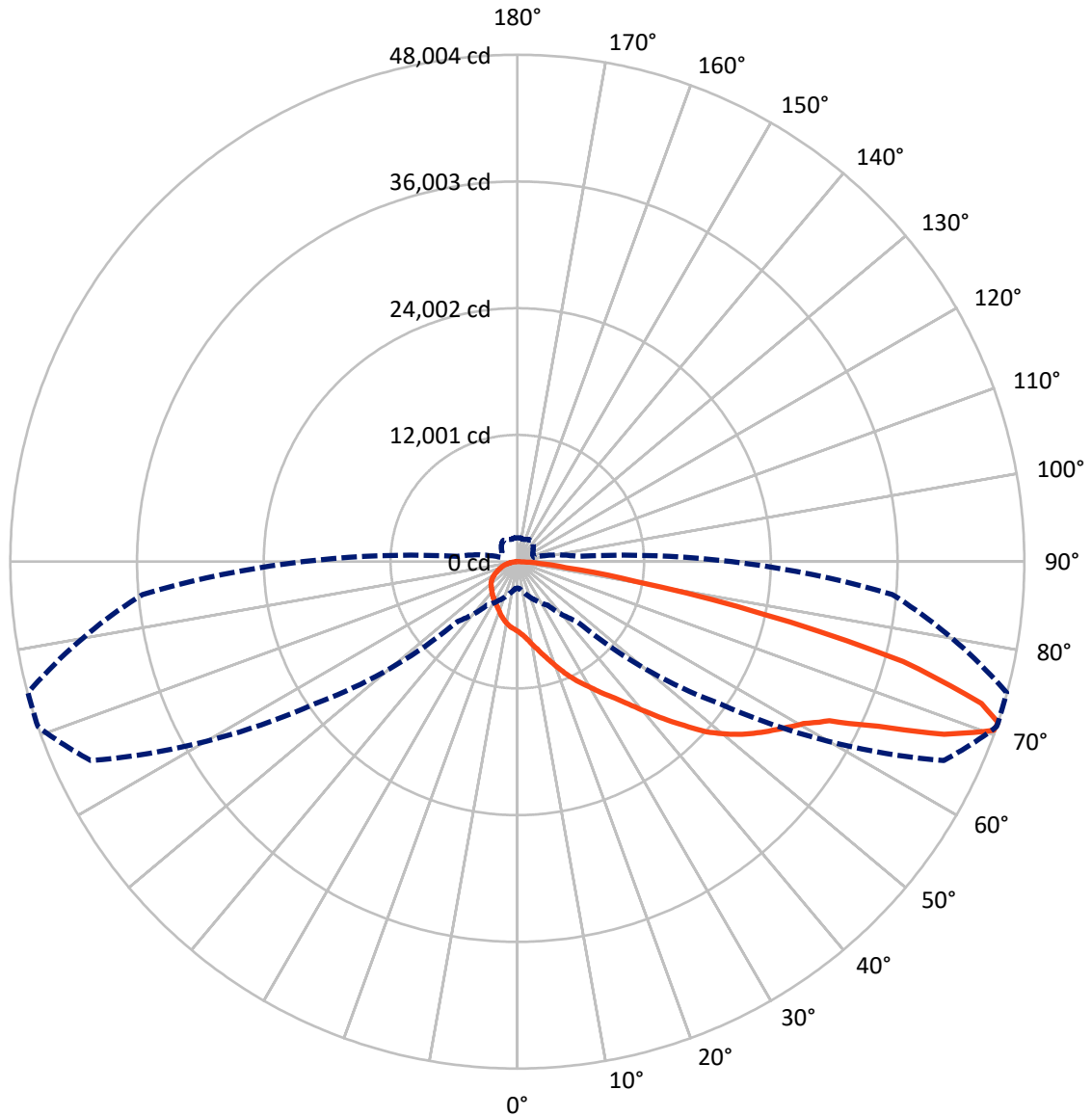
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P458096
CATALOG NUMBER: GALN-SA9C-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P458096

CATALOG NUMBER: GALN-SA9C-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9640.9	0.0	9640.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	43965.1	0.0	43965.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	53606.0	0.0	53606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.6	1.2
10°-20°	2146.2	4.0
20°-30°	3750.6	7.0
30°-40°	5578.6	10.4
40°-50°	8219.3	15.3
50°-60°	11507.2	21.5
60°-70°	12870.4	24.0
70°-80°	7861.7	14.7
80°-90°	1011.3	1.9
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°	53606.0	100.0
0°-180°	53606.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458096

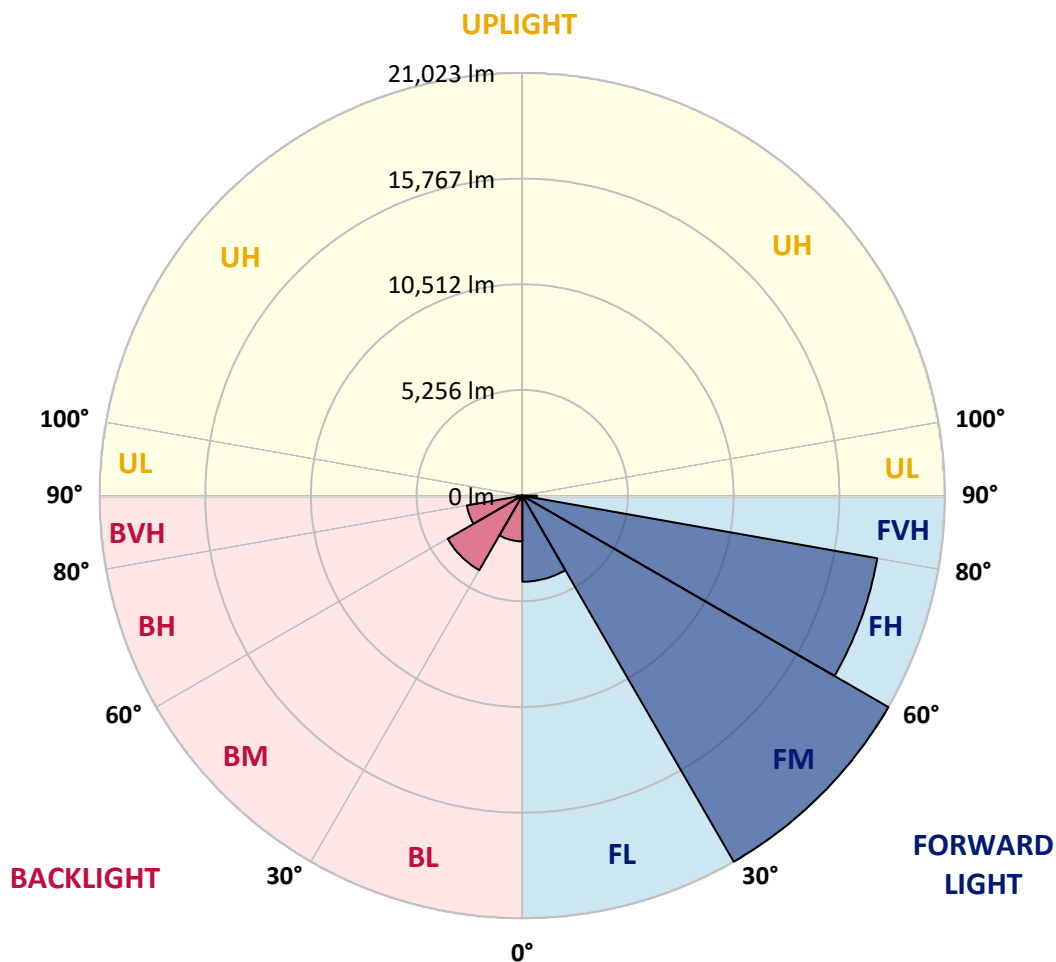
CATALOG NUMBER: GALN-SA9C-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4283.1	8.0			
FM	(30°-60°)	21023.2	39.2			
FH	(60°-80°)	17931.0	33.4			G5
FVH	(80°-90°)	727.7	1.4			G4/750
BL	(0°-30°)	2274.3	4.2	B3/2500		
BM	(30°-60°)	4281.9	8.0	B3/5000		
BH	(60°-80°)	2801.1	5.2	B4/5000		G4/5000
BVH	(80°-90°)	283.6	0.5			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: P458096

CATALOG NUMBER: GALN-SA9C-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1
2.5°	7303.9	7268.5	7271.5	7221.4	7156.6	7085.8	6985.7	6897.3	6826.6	6785.3	6664.5
5°	8093.5	8058.1	8013.9	7904.9	7857.8	7683.9	7463.0	7262.6	7109.4	7024.0	6782.4
7.5°	8732.8	8724.0	8712.2	8650.3	8529.5	8287.9	8099.4	7751.7	7524.8	7362.8	6950.3
10°	9127.6	9142.4	9151.2	9163.0	9112.9	8986.2	8726.9	8287.9	7999.2	7793.0	7168.3
12.5°	9328.0	9342.7	9392.8	9501.8	9569.6	9554.8	9342.7	8912.5	8514.8	8243.7	7401.1
15°	9451.7	9475.3	9563.7	9708.0	9934.9	10079.3	9976.2	9578.4	9142.4	8821.2	7678.0
17.5°	9587.2	9613.8	9711.0	9917.2	10214.8	10527.1	10639.1	10297.3	9823.0	9439.9	7987.4
20°	9663.9	9699.2	9837.7	10108.7	10456.4	10910.1	11281.4	11101.6	10583.1	10158.8	8343.9
22.5°	9787.6	9817.1	9934.9	10223.6	10639.1	11207.7	11923.7	11885.4	11428.7	10880.7	8735.8
25°	10123.5	10170.6	10229.5	10403.4	10804.1	11511.2	12456.9	12722.1	12247.8	11634.9	9095.2
27.5°	10756.9	10795.2	10792.3	10815.9	11042.7	11773.4	12919.5	13550.0	13060.9	12398.0	9442.9
30°	11478.8	11493.5	11505.3	11452.3	11502.3	12041.5	13343.8	14369.1	13880.0	13181.7	9746.3
32.5°	12356.8	12386.2	12286.1	12150.5	12109.3	12439.3	13694.4	15188.2	14849.3	13977.2	10046.9
35°	13393.9	13470.5	13267.2	13028.5	12860.6	13010.8	14165.8	16024.9	15842.2	14993.7	10444.6
37.5°	14578.3	14672.6	14484.0	14015.5	13776.9	13818.1	14781.6	17059.1	17097.4	16151.6	11036.8
40°	15547.6	15671.3	15677.2	15014.3	14651.9	14699.1	15562.3	18172.8	18611.8	17583.5	11735.1
42.5°	16187.0	16307.7	16434.4	16045.5	15665.5	15933.6	16472.7	19380.7	20314.7	19321.8	12710.3
45°	16888.2	16997.2	17067.9	16891.1	16679.0	17374.3	17571.7	20665.3	22129.6	21263.4	13776.9
47.5°	17701.3	17822.1	17889.9	17722.0	17642.4	18638.3	18756.1	21864.5	24068.3	23149.0	14955.4
50°	18785.6	18876.9	18841.6	18735.5	18717.8	19607.6	19893.4	22987.0	25668.1	25179.0	16178.1
52.5°	20135.0	20244.0	20282.3	20132.0	20064.3	20300.0	20809.7	24009.4	27123.6	26923.3	17483.3
55°	20951.1	21124.9	21708.3	21944.0	22106.1	21195.7	21796.7	25137.8	28428.8	28761.7	18885.8
57.5°	19905.2	20129.1	21434.3	22612.8	24136.1	23434.8	23196.2	26316.3	29734.0	30544.3	20565.1
60°	17353.7	17403.8	19086.1	21257.5	24321.7	26313.4	26116.0	28190.2	31148.2	32341.5	22777.8
62.5°	12038.6	12144.6	14133.4	17598.2	22029.5	27350.5	31083.4	31425.2	33175.3	35031.5	26021.7
65°	6207.8	6069.4	7881.3	11060.4	16608.3	24887.4	35108.1	37373.8	37571.2	39238.8	30588.4
67.5°	3821.3	3883.2	4731.8	6458.3	9820.0	18087.3	34686.7	44642.3	43602.2	44403.6	34828.2
70°	2869.7	2946.3	3529.7	4419.4	5986.9	10341.5	27895.5	46404.2	47856.7	47650.4	36118.6
71°	2495.5	2575.1	3182.0	4021.7	5029.3	7981.5	23502.6	44559.8	48004.0	47968.6	35632.5
72.5°	2127.2	2177.3	2651.7	3405.9	4239.7	5595.0	17657.2	39963.6	45956.3	47131.9	33897.1
75°	1670.5	1708.9	1921.0	2598.6	3338.2	3435.4	9475.3	29960.9	37745.0	39984.2	28219.6
77.5°	1361.2	1387.7	1496.7	1929.8	2575.1	2433.6	4970.4	19501.5	23647.0	25900.9	16623.0
80°	1081.3	1110.8	1175.6	1308.2	1929.8	1735.4	2371.8	9881.9	11422.8	11399.2	6635.1
82.5°	839.7	848.5	925.1	960.5	1319.9	1231.6	1284.6	4183.7	4634.5	4787.7	2395.3
85°	530.3	556.8	819.1	736.6	789.6	721.8	633.5	1661.7	2047.7	2018.2	957.5
87.5°	162.0	170.9	277.0	312.3	350.6	315.3	232.8	489.1	598.1	648.2	238.6
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: P458096
 CATALOG NUMBER: GALN-SA9C-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1
2.5°	6617.4	6585.0	6470.1	6375.8	6287.4	6190.2	6107.7	6084.1	6063.5	6054.6	6051.7
5°	6679.3	6582.0	6355.2	6169.5	6022.2	5886.7	5801.3	5763.0	5724.7	5724.7	5736.4
7.5°	6767.6	6590.9	6240.3	5963.3	5777.7	5651.0	5589.1	5583.2	5592.1	5600.9	5603.9
10°	6864.9	6585.0	6072.3	5727.6	5562.6	5503.7	5506.6	5556.7	5603.9	5639.2	5645.1
12.5°	6959.2	6549.6	5874.9	5506.6	5400.6	5412.3	5494.8	5606.8	5698.1	5748.2	5751.2
15°	7065.2	6493.6	5636.3	5297.4	5262.1	5353.4	5506.6	5677.5	5816.0	5898.5	5907.3
17.5°	7153.6	6399.4	5385.8	5094.1	5138.3	5306.3	5518.4	5739.4	5907.3	6010.4	6028.1
20°	7253.8	6278.6	5126.6	4899.7	5026.4	5253.2	5494.8	5733.5	5907.3	6007.5	6031.1
22.5°	7333.3	6107.7	4879.1	4740.6	4926.2	5188.4	5415.3	5606.8	5748.2	5801.3	5836.6
25°	7365.7	5892.6	4646.3	4611.0	4846.7	5082.4	5235.6	5344.6	5388.8	5382.9	5397.6
27.5°	7348.1	5645.1	4446.0	4507.8	4746.5	4917.4	4994.0	4985.1	4905.6	4831.9	4867.3
30°	7274.4	5350.5	4278.0	4401.8	4616.8	4711.1	4699.3	4584.4	4434.2	4295.7	4304.5
32.5°	7141.8	5032.3	4121.9	4281.0	4434.2	4475.4	4395.9	4245.6	4030.5	3850.8	3824.3
35°	7029.9	4728.8	3983.4	4142.5	4251.5	4230.9	4154.3	3959.8	3765.4	3606.3	3579.7
37.5°	7012.2	4469.5	3850.8	3986.3	4048.2	4018.7	3924.5	3759.5	3688.8	3568.0	3553.2
40°	7106.5	4286.9	3715.3	3821.3	3850.8	3827.2	3724.1	3629.8	3694.7	3665.2	3665.2
42.5°	7362.8	4189.6	3594.5	3656.4	3679.9	3697.6	3623.9	3544.4	3623.9	3488.4	3444.2
45°	7769.4	4192.6	3485.5	3494.3	3565.0	3626.9	3576.8	3459.0	3417.7	3146.6	3093.6
47.5°	8367.5	4292.8	3397.1	3341.1	3467.8	3570.9	3500.2	3329.3	3146.6	2966.9	2934.5
50°	9065.8	4472.5	3317.5	3182.0	3338.2	3500.2	3447.2	3246.8	3058.3	2949.2	2928.6
52.5°	9840.6	4699.3	3220.3	3005.2	3179.1	3467.8	3459.0	3235.0	2975.8	2902.1	2884.4
55°	10798.2	4923.3	3099.5	2799.0	3037.6	3441.3	3426.5	3137.8	2958.1	2905.0	2899.2
57.5°	11911.9	5247.4	2925.7	2589.8	2875.6	3332.3	3299.9	3078.9	2899.2	2860.9	2857.9
60°	13706.2	5751.2	2678.2	2398.3	2710.6	3140.8	3182.0	2978.7	2804.9	2796.0	2793.1
62.5°	16066.2	6458.3	2421.9	2200.9	2519.1	2893.3	3011.1	2843.2	2704.7	2748.9	2754.8
65°	19324.8	7053.4	2156.7	2032.9	2306.9	2654.6	2849.1	2716.5	2592.7	2678.2	2678.2
67.5°	21449.0	7065.2	1915.1	1859.1	2091.9	2454.3	2678.2	2566.2	2448.4	2592.7	2598.6
70°	21007.1	6190.2	1714.7	1676.4	1882.7	2239.2	2489.6	2401.2	2265.7	2395.3	2348.2
71°	20294.1	5704.0	1635.2	1605.7	1800.2	2136.1	2401.2	2327.6	2192.0	2277.5	2251.0
72.5°	19156.8	4952.7	1505.6	1511.4	1676.4	2006.4	2277.5	2200.9	2065.4	2112.5	2103.7
75°	16192.8	4325.2	1287.5	1314.0	1440.7	1785.5	2030.0	1971.1	1832.6	1832.6	1823.8
77.5°	10123.5	3022.9	1069.5	1084.2	1222.7	1529.1	1744.2	1694.1	1561.5	1517.3	1505.6
80°	3777.2	1561.5	836.7	854.4	939.9	1205.0	1443.7	1396.5	1261.0	1210.9	1163.8
82.5°	1429.0	783.7	615.8	601.0	692.4	919.2	1131.4	1075.4	969.3	848.5	813.2
85°	539.2	388.9	377.1	365.3	406.6	545.1	701.2	689.4	577.5	492.0	483.2
87.5°	141.4	126.7	147.3	109.0	114.9	103.1	106.1	44.2	20.6	8.8	5.9
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)