

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: P457172

Luminaire Tested: **GALN-SA8C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47082 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

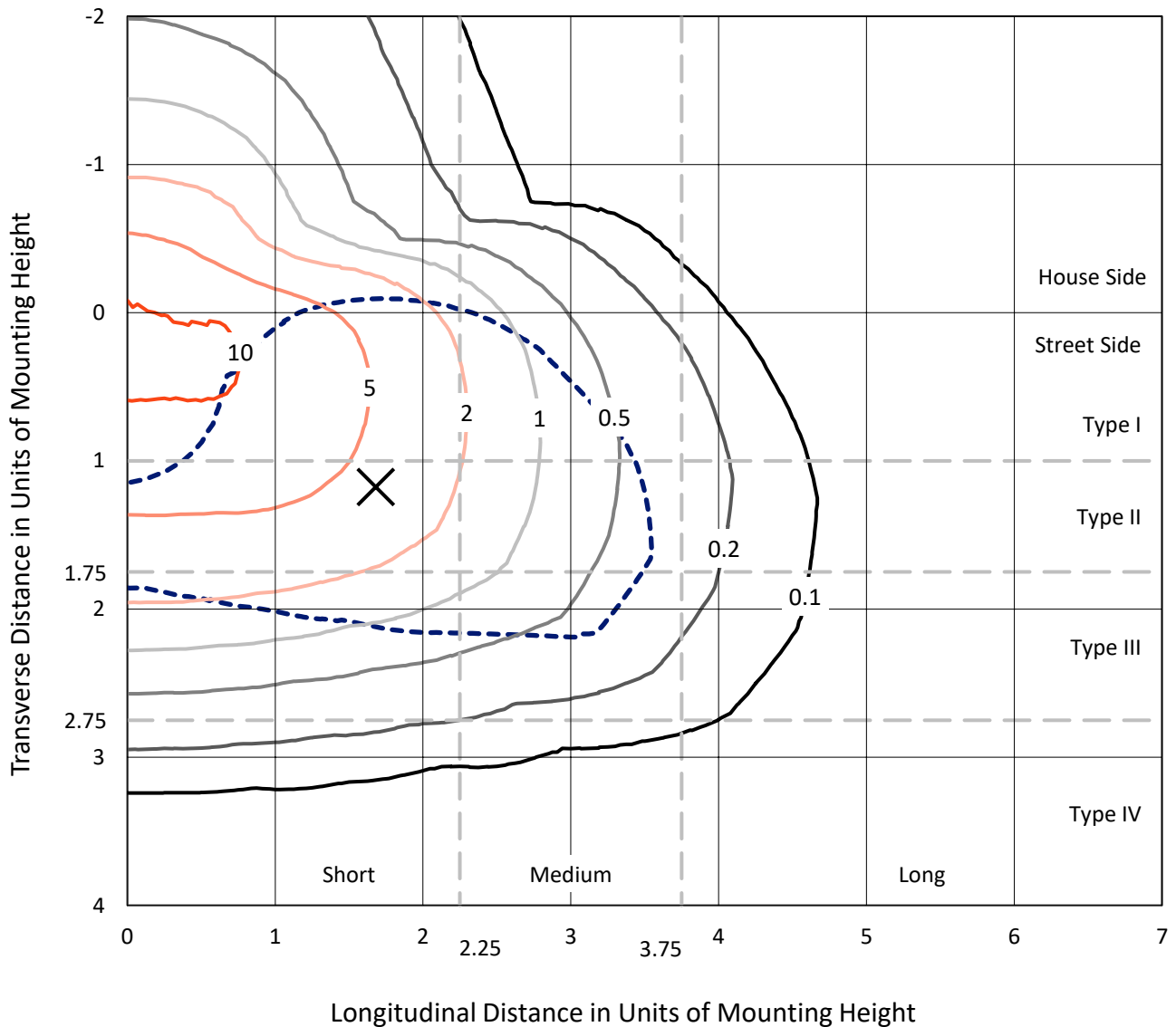
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457172
 CATALOG NUMBER: GALN-SA8C-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

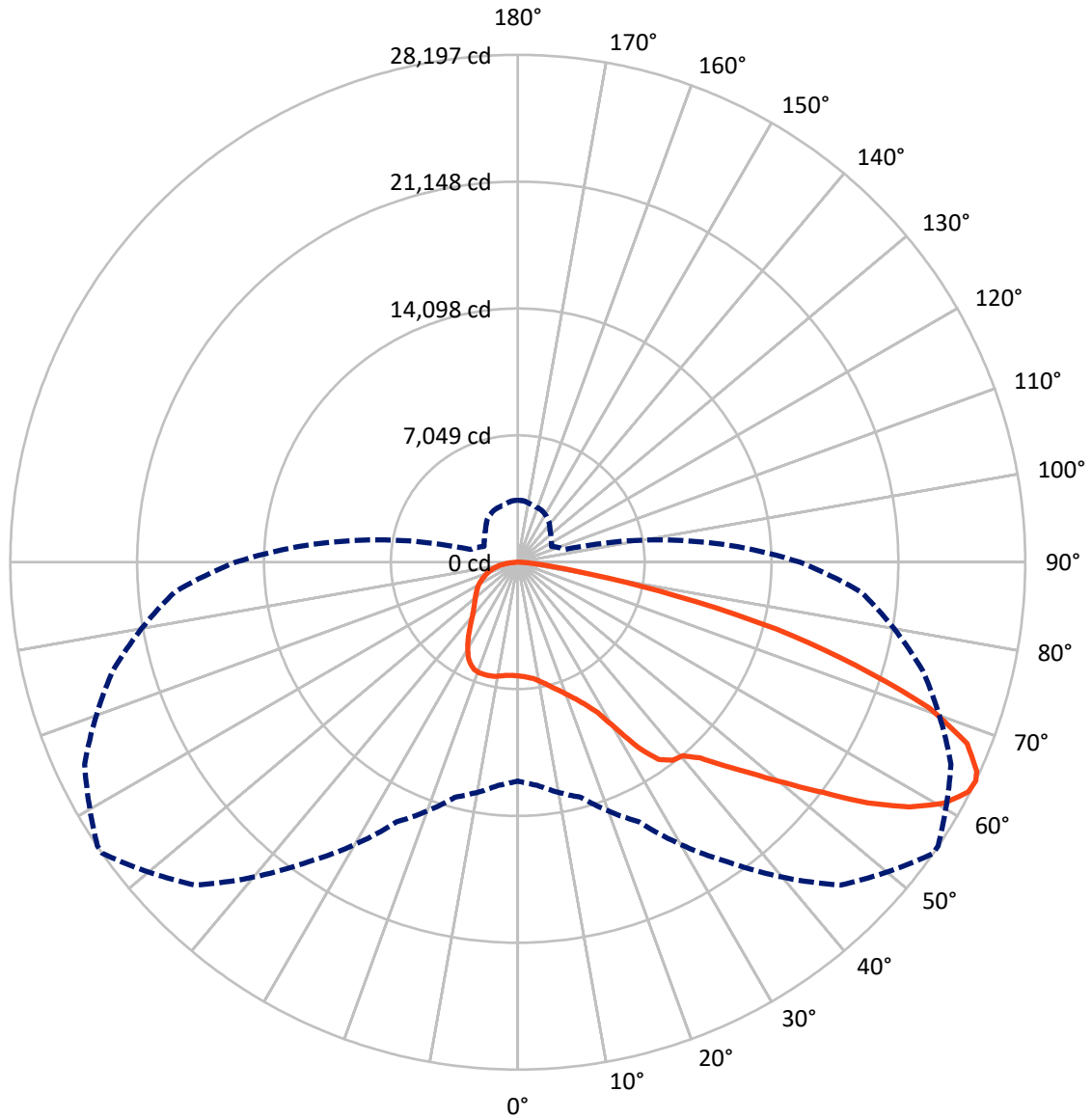
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

REPORT NUMBER: P457172
CATALOG NUMBER: GALN-SA8C-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P457172

CATALOG NUMBER: GALN-SA8C-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11437.1	0.0	11437.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	35644.9	0.0	35644.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	47082.0	0.0	47082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.5	1.3
10°-20°	1938.8	4.1
20°-30°	3451.7	7.3
30°-40°	5310.8	11.3
40°-50°	7528.4	16.0
50°-60°	10897.2	23.1
60°-70°	11277.5	24.0
70°-80°	5281.3	11.2
80°-90°	781.8	1.7
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°	47082.0	100.0
0°-180°	47082.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457172

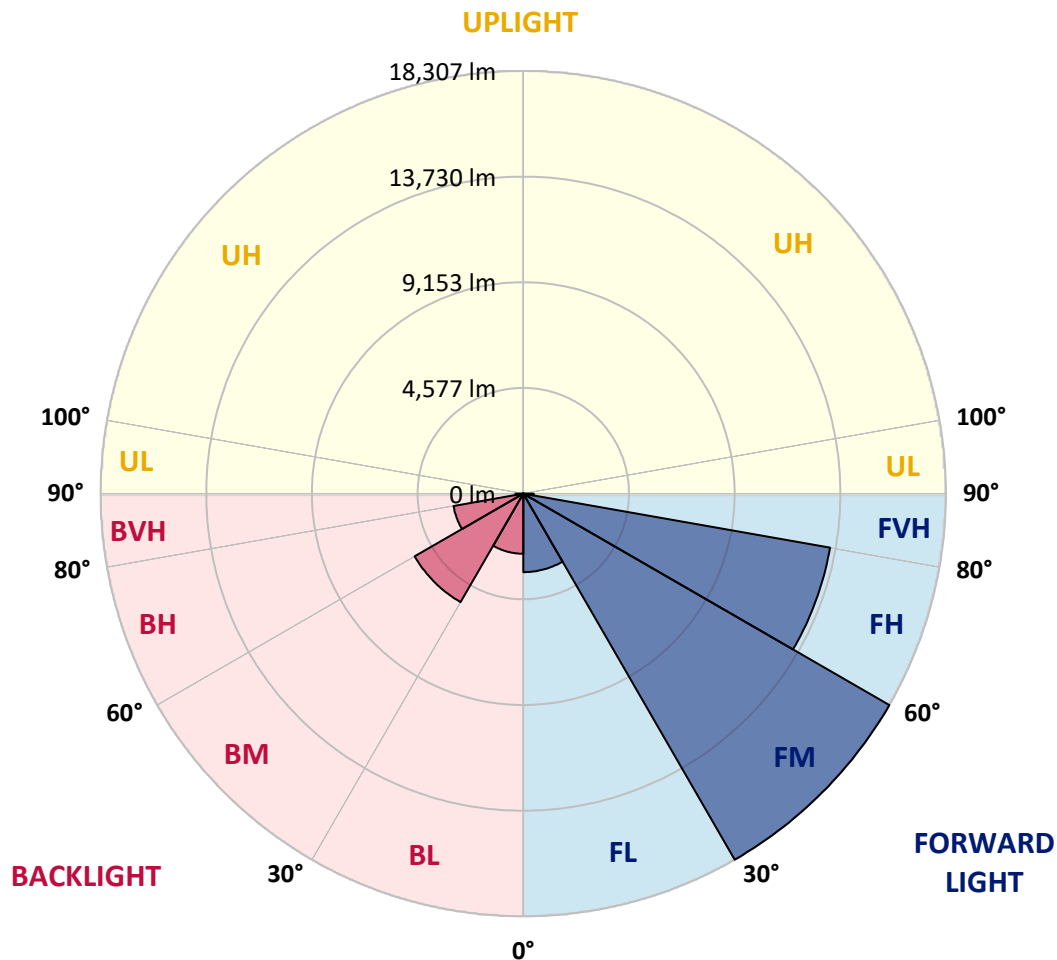
CATALOG NUMBER: GALN-SA8C-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3400.1	7.2			
FM	(30°-60°)	18306.8	38.9			
FH	(60°-80°)	13490.4	28.7			G5
FVH	(80°-90°)	447.7	1.0			G3/500
BL	(0°-30°)	2604.9	5.5	B4/5000		
BM	(30°-60°)	5429.7	11.5	B4/8500		
BH	(60°-80°)	3068.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	334.2	0.7			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 III Short





REPORT NUMBER: P457172

CATALOG NUMBER: GALN-SA8C-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0
2.5°	6387.8	6385.2	6393.1	6385.2	6390.5	6372.1	6364.2	6369.5	6361.6	6348.5	6324.9
5°	6466.6	6464.0	6466.6	6456.1	6461.3	6450.8	6432.5	6437.7	6424.6	6395.7	6361.6
7.5°	6600.4	6589.9	6589.9	6587.3	6576.8	6561.1	6547.9	6542.7	6529.6	6492.8	6440.3
10°	6773.6	6773.6	6776.3	6755.3	6768.4	6739.5	6726.4	6723.8	6679.2	6631.9	6558.4
12.5°	7002.0	7015.1	7007.2	6996.7	6991.5	6981.0	6936.3	6946.8	6897.0	6815.6	6726.4
15°	7285.4	7306.4	7293.3	7288.0	7274.9	7235.5	7217.2	7209.3	7143.7	7025.6	6907.5
17.5°	7660.7	7634.4	7623.9	7610.8	7555.7	7526.8	7495.3	7490.1	7432.4	7293.3	7109.6
20°	7988.7	8025.5	8004.5	7991.4	7936.3	7881.1	7857.5	7849.6	7799.8	7647.6	7353.6
22.5°	8379.8	8387.7	8395.5	8364.0	8337.8	8295.8	8253.8	8240.7	8222.3	8064.8	7705.3
25°	8797.1	8828.6	8802.3	8770.8	8739.3	8736.7	8776.1	8770.8	8762.9	8610.7	8172.4
27.5°	9476.8	9505.7	9513.5	9479.4	9358.7	9369.2	9458.4	9487.3	9608.0	9356.1	8773.4
30°	9860.0	9888.8	9954.4	10083.0	10274.6	10442.6	10657.8	10723.4	10838.9	10363.8	9487.3
32.5°	10096.2	10106.6	10224.7	10463.6	11038.3	11665.6	12250.8	12274.4	12347.9	11681.3	10140.8
35°	10468.8	10476.7	10571.2	10833.6	11508.1	12552.6	13458.0	13486.9	13426.5	12090.7	10445.2
37.5°	10928.1	10949.1	11009.4	11227.3	12033.0	13295.3	13959.3	13938.3	13402.9	12416.1	10983.2
40°	11597.3	11597.3	11526.5	11820.4	12586.7	13720.5	14135.1	14098.4	13956.7	13358.3	11802.0
42.5°	12187.8	12177.3	12345.3	12544.7	13279.6	14376.6	14872.6	14933.0	15166.5	14541.9	12733.7
45°	12956.8	13004.0	13098.5	13460.7	14457.9	15497.2	16137.6	16195.3	16526.0	15935.5	13822.8
47.5°	13733.6	13749.3	14045.9	14528.8	15917.1	17016.8	17541.6	17636.1	17937.9	17565.3	14995.9
50°	14284.7	14434.3	14909.3	15670.4	17420.9	18869.6	19279.0	19391.9	19924.6	19339.4	16363.3
52.5°	14867.3	15014.3	15594.3	16754.3	19147.8	20764.4	21268.3	21344.4	21898.2	21134.5	17762.1
55°	15366.0	15502.5	16161.2	17714.8	20523.0	22698.6	23611.9	23522.7	23787.8	22517.5	18840.7
57.5°	15447.3	15557.6	16386.9	18329.0	21557.0	24357.3	25666.8	25719.3	25412.3	23551.6	19730.4
60°	14817.5	15043.2	15995.9	18263.4	22021.5	25512.0	27199.5	27236.2	26364.9	24081.7	20084.7
62.5°	13702.1	13678.5	14830.6	17208.3	21370.7	25774.4	28102.3	28062.9	26737.6	23827.1	19740.9
64°	12161.6	12445.0	13521.0	15911.9	20320.9	25370.3	28196.8	28175.8	26559.1	23297.0	19155.7
65°	11222.0	11206.3	12269.2	14851.6	19276.4	24761.4	28028.8	28000.0	26186.5	22822.0	18701.6
67.5°	8101.6	8138.3	9188.1	11460.9	15670.4	22381.1	26934.4	26826.8	24716.8	21247.3	16974.8
70°	4907.7	4928.7	5752.7	7602.9	11248.3	18092.8	24278.5	24283.8	22467.7	18895.8	14447.4
72.5°	2585.1	2640.2	2970.8	4317.2	6831.4	12694.3	19696.3	20163.4	19289.5	16127.1	11413.6
75°	1438.2	1446.1	1679.6	2128.4	3485.2	7104.3	14804.4	14938.2	15271.5	12980.4	8440.1
77.5°	1097.0	1112.8	1186.2	1375.2	1897.5	3293.6	8959.8	9631.6	10762.8	9151.4	4815.8
80°	889.7	905.4	968.4	1081.3	1262.3	1561.5	4162.3	4524.5	5760.6	4062.6	1879.1
82.5°	692.8	682.3	763.7	837.2	918.5	923.8	1708.5	1889.6	2346.2	1747.9	813.6
85°	514.4	514.4	580.0	564.3	593.1	540.6	753.2	831.9	939.5	742.7	377.9
87.5°	204.7	225.7	380.5	341.2	265.1	212.6	278.2	293.9	325.4	291.3	157.5
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: P457172

CATALOG NUMBER: GALN-SA8C-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0	6317.0
2.5°	6327.5	6335.4	6317.0	6303.9	6298.6	6290.7	6282.9	6285.5	6296.0	6306.5	6303.9
5°	6359.0	6361.6	6330.1	6314.4	6303.9	6293.4	6293.4	6301.2	6322.2	6338.0	6338.0
7.5°	6437.7	6437.7	6393.1	6364.2	6348.5	6330.1	6324.9	6327.5	6343.2	6364.2	6366.8
10°	6561.1	6550.6	6492.8	6448.2	6419.3	6374.7	6335.4	6314.4	6322.2	6335.4	6335.4
12.5°	6710.6	6681.8	6608.3	6547.9	6477.1	6393.1	6311.7	6269.7	6267.1	6280.2	6275.0
15°	6870.7	6839.2	6736.9	6626.7	6503.3	6380.0	6282.9	6222.5	6175.3	6162.1	6191.0
17.5°	7057.1	6991.5	6849.7	6697.5	6513.8	6353.7	6201.5	6078.2	5994.2	5970.6	5978.4
20°	7282.8	7196.2	7004.6	6765.8	6505.9	6259.2	6023.0	5857.7	5721.2	5679.2	5684.5
22.5°	7595.1	7445.5	7164.7	6799.9	6440.3	6080.8	5752.7	5537.5	5372.2	5306.6	5345.9
25°	7949.4	7786.7	7316.9	6792.0	6269.7	5794.7	5432.6	5151.7	5002.1	4905.0	4926.0
27.5°	8437.5	8148.8	7479.6	6721.1	6025.7	5445.7	5025.8	4760.7	4624.2	4574.4	4598.0
30°	9062.1	8618.6	7655.4	6529.6	5639.9	5004.8	4616.4	4443.1	4361.8	4298.8	4319.8
32.5°	9513.5	8949.3	7694.8	6206.8	5222.6	4603.2	4338.2	4209.6	4120.3	4060.0	4073.1
35°	9836.3	9230.1	7676.4	5810.5	4786.9	4272.6	4117.7	4012.7	3868.4	3737.2	3713.6
37.5°	10269.4	9581.8	7542.6	5377.4	4356.5	4049.5	3939.3	3745.0	3537.7	3361.9	3354.0
40°	10933.3	9993.8	7256.5	4868.3	3989.1	3884.1	3750.3	3498.4	3275.3	3133.6	3123.1
42.5°	11618.3	10374.3	6868.1	4332.9	3687.3	3710.9	3548.2	3298.9	3162.4	3070.6	3060.1
45°	12455.5	10786.4	6448.2	3868.4	3464.2	3548.2	3372.4	3228.0	3146.7	3086.3	3070.6
47.5°	13360.9	11208.9	5975.8	3451.1	3275.3	3398.6	3298.9	3233.3	3188.7	3146.7	3128.3
50°	14337.2	11681.3	5532.3	3115.2	3104.7	3243.8	3291.0	3267.4	3241.2	3228.0	3212.3
52.5°	15408.0	12164.2	5159.6	2879.0	2955.1	3133.6	3293.6	3312.0	3312.0	3304.1	3293.6
55°	16132.3	12500.1	4781.7	2687.4	2802.9	3044.3	3288.4	3359.3	3385.5	3375.0	3364.5
57.5°	16667.7	12683.8	4306.7	2522.1	2674.3	2957.7	3259.5	3364.5	3390.8	3403.9	3398.6
60°	16777.9	12513.2	3684.7	2348.9	2535.2	2831.8	3154.6	3285.8	3319.9	3401.3	3409.1
62.5°	16281.9	11988.4	3065.3	2178.3	2364.6	2640.2	3012.8	3196.5	3264.8	3390.8	3403.9
64°	15673.0	11400.5	2721.5	2070.7	2254.4	2532.6	2942.0	3172.9	3262.2	3430.1	3440.6
65°	15226.9	10972.7	2506.3	2002.4	2183.5	2461.7	2902.6	3180.8	3285.8	3490.5	3506.2
67.5°	13584.0	9500.4	2073.3	1842.3	2015.6	2341.0	2910.5	3246.4	3280.5	3514.1	3511.5
70°	11240.4	7563.6	1737.4	1695.4	1852.8	2243.9	2879.0	3141.4	3144.1	3298.9	3262.2
72.5°	8416.5	5590.0	1506.4	1543.2	1671.8	2012.9	2718.9	2999.7	2955.1	2976.1	2939.4
75°	5781.6	3697.8	1296.5	1380.4	1482.8	1779.4	2493.2	2724.1	2653.3	2627.0	2600.8
77.5°	3086.3	2044.4	1078.6	1220.4	1288.6	1537.9	2175.6	2398.7	2325.2	2222.9	2188.8
80°	1249.2	963.2	868.7	1010.4	1049.8	1238.7	1810.9	1949.9	1894.8	1716.4	1658.6
82.5°	627.2	577.4	682.3	795.2	797.8	884.4	1346.3	1477.5	1354.2	1136.4	1086.5
85°	328.1	338.6	469.8	559.0	493.4	477.6	808.3	894.9	821.4	713.8	643.0
87.5°	118.1	136.5	246.7	244.1	173.2	91.9	178.5	86.6	47.2	28.9	36.7
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)