

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: P456242

Luminaire Tested: **GALN-SA7C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41736 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

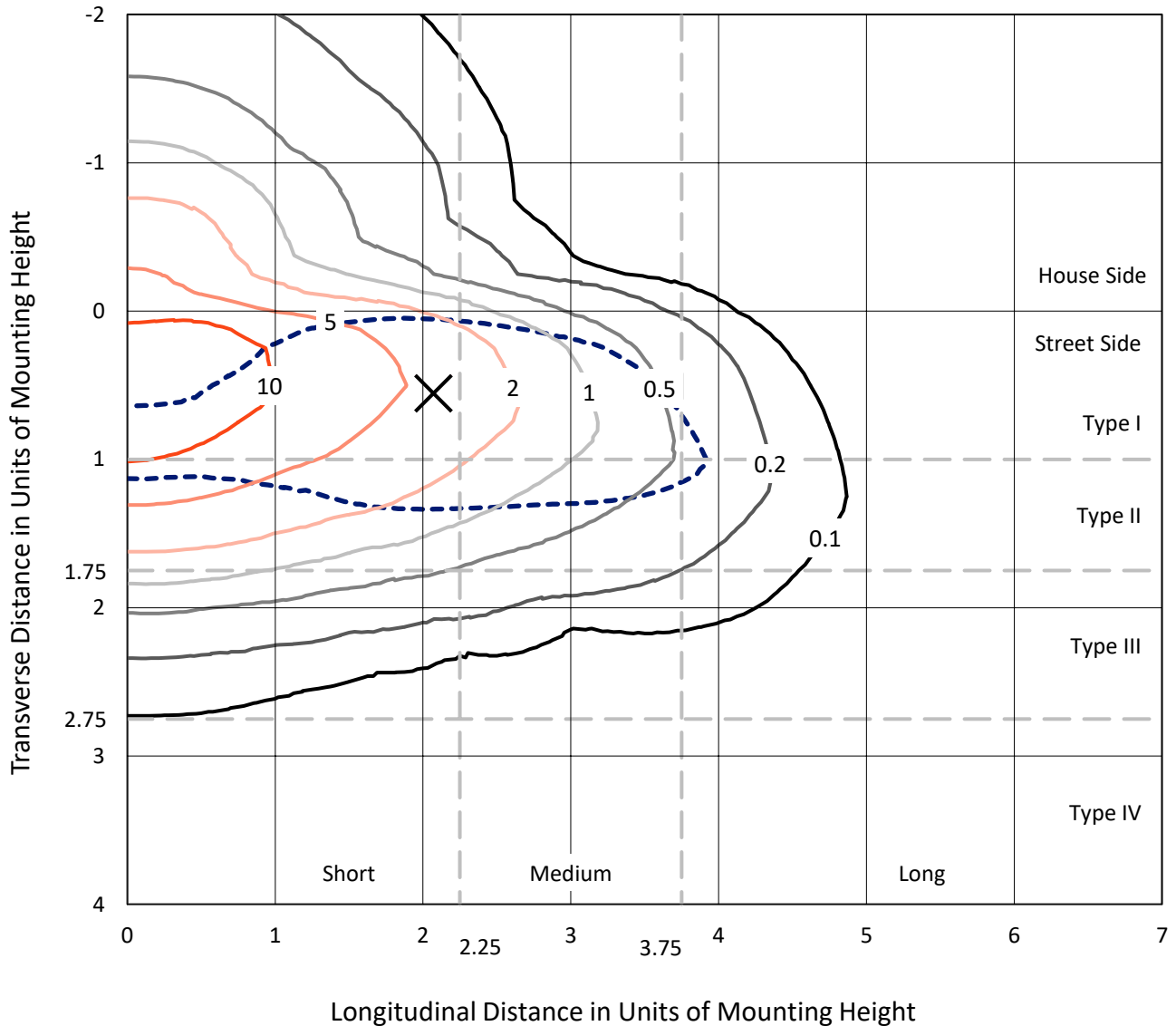
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456242
 CATALOG NUMBER: GALN-SA7C-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

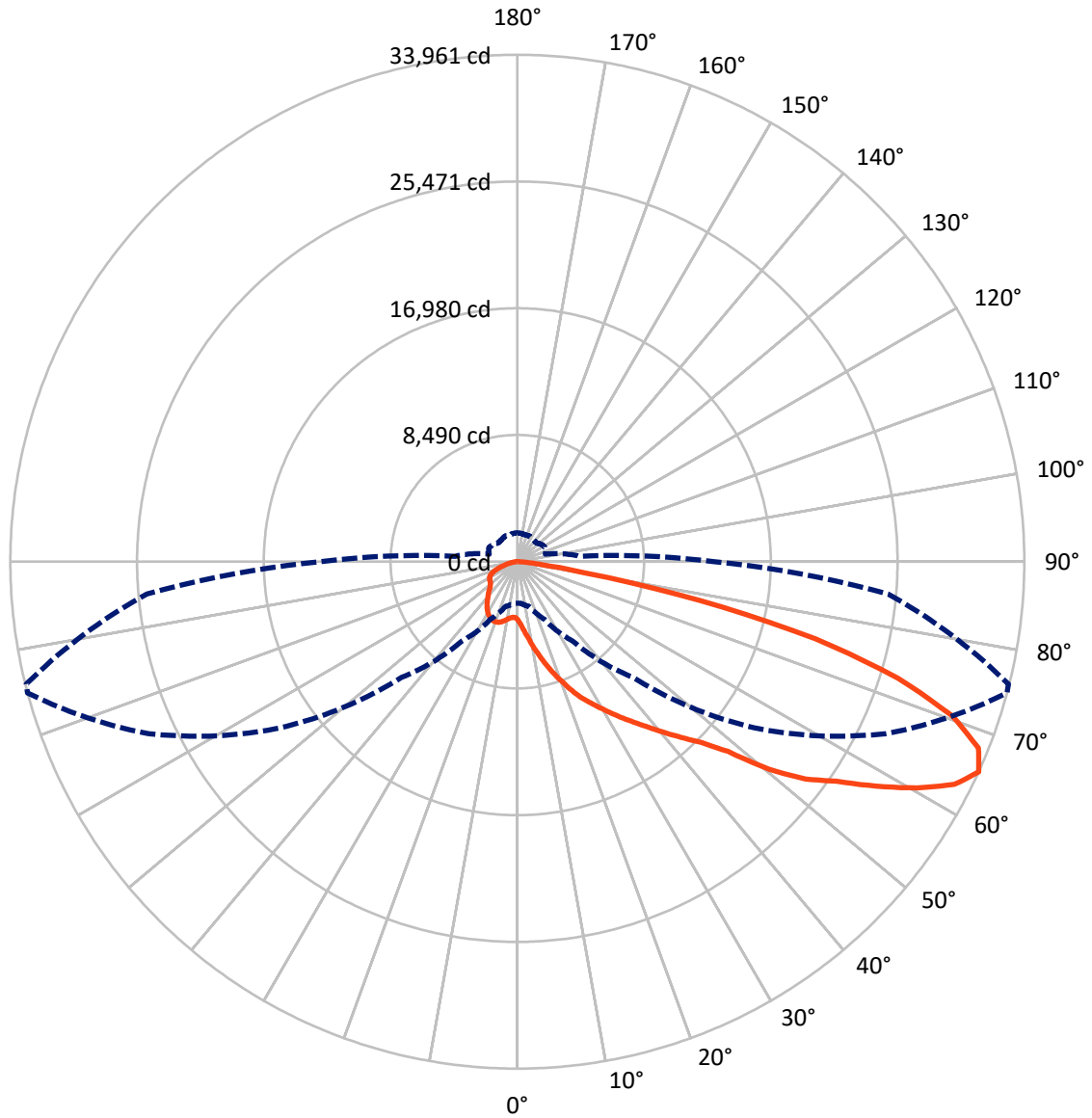
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

REPORT NUMBER: P456242
CATALOG NUMBER: GALN-SA7C-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456242

CATALOG NUMBER: GALN-SA7C-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7016.4	0.0	7016.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34719.6	0.0	34719.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	41736.0	0.0	41736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.1
10°-20°	1845.4	4.4
20°-30°	3564.7	8.5
30°-40°	5790.1	13.9
40°-50°	7964.8	19.1
50°-60°	9403.7	22.5
60°-70°	8239.2	19.7
70°-80°	3933.5	9.4
80°-90°	523.4	1.3
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°	41736.0	100.0
0°-180°	41736.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456242

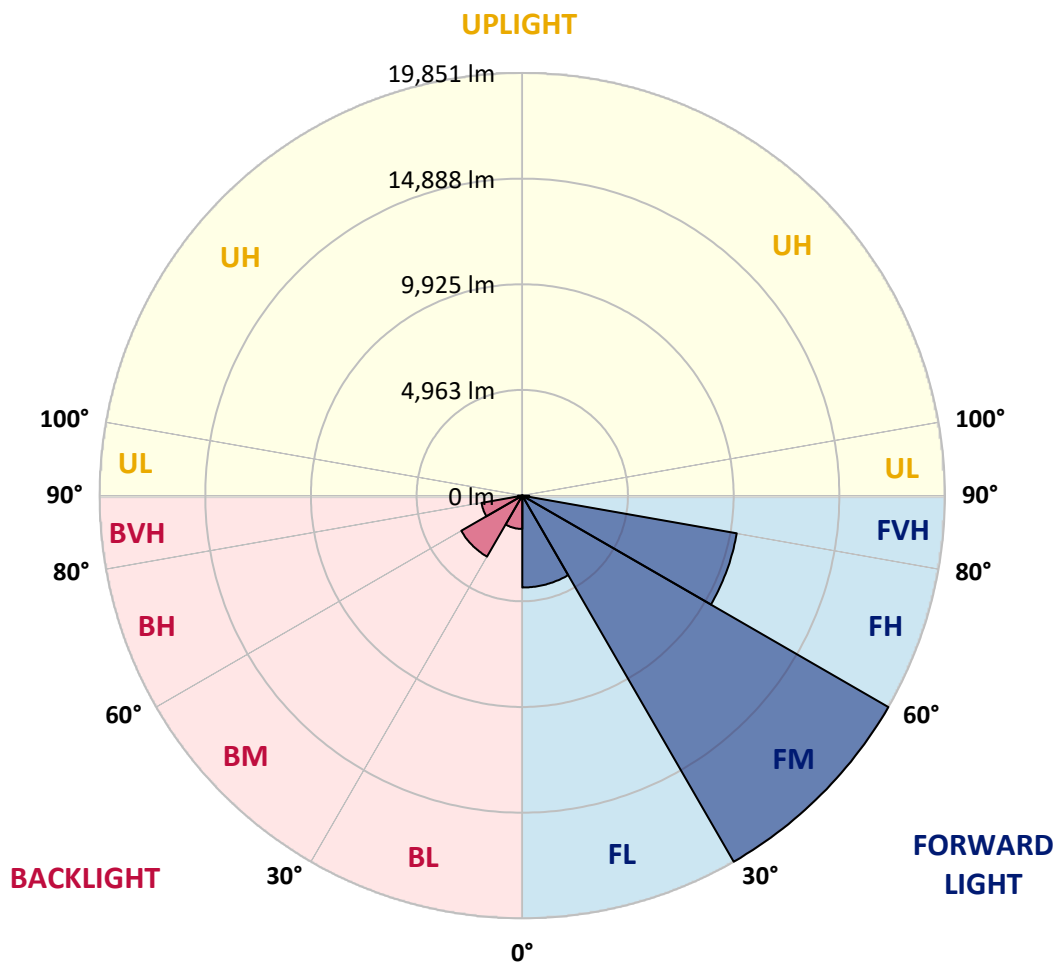
CATALOG NUMBER: GALN-SA7C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4314.8	10.3			
FM	(30°-60°)	19850.5	47.6			
FH	(60°-80°)	10227.2	24.5			G4/12000
FVH	(80°-90°)	327.1	0.8			G3/500
BL	(0°-30°)	1566.4	3.8	B3/2500		
BM	(30°-60°)	3308.2	7.9	B3/5000		
BH	(60°-80°)	1945.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	196.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P456242

CATALOG NUMBER: GALN-SA7C-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8
2.5°	5152.3	5118.3	5082.1	4982.5	4876.1	4756.1	4584.1	4418.8	4199.3	4192.5	4029.5
5°	6580.7	6558.1	6397.4	6304.5	6057.8	5729.5	5451.1	5018.7	4618.0	4570.5	4253.6
7.5°	7893.7	7805.4	7744.3	7576.8	7332.3	6911.2	6372.5	5788.4	5118.3	5055.0	4529.8
10°	8882.9	8873.9	8842.2	8697.3	8514.0	8095.2	7497.5	6659.9	5752.2	5627.7	4864.8
12.5°	9623.2	9630.0	9625.5	9623.2	9491.9	9136.5	8489.1	7606.2	6392.8	6304.5	5251.9
15°	10109.9	10177.8	10205.0	10318.2	10329.5	10091.8	9534.9	8520.8	7115.0	6983.7	5668.4
17.5°	10431.4	10465.3	10592.1	10784.5	10940.7	10897.7	10401.9	9367.4	7852.9	7633.4	6100.8
20°	10739.2	10798.1	10895.4	11158.0	11434.2	11561.0	11212.3	10234.4	8584.1	8443.8	6578.5
22.5°	11379.9	11463.6	11497.6	11631.1	11866.6	12090.7	11932.2	11065.2	9385.5	9195.3	7085.5
25°	12464.2	12552.5	12457.4	12425.7	12502.7	12613.6	12579.7	11848.5	10141.6	9869.9	7565.4
27.5°	13876.8	13888.1	13702.5	13525.9	13335.7	13279.1	13175.0	12543.4	10798.1	10571.7	8047.6
30°	15393.5	15339.2	15031.3	14712.1	14390.7	14073.7	13774.9	13213.5	11529.3	11268.9	8520.8
32.5°	16801.5	16772.1	16430.3	15934.5	15391.2	15092.4	14488.0	13890.4	12312.5	12061.3	9007.5
35°	17856.4	17899.5	17523.7	16982.6	16389.5	16124.7	15361.8	14601.2	13123.0	12849.0	9537.2
37.5°	18605.8	18583.1	18250.3	17781.7	17261.1	17030.2	16382.7	15377.6	13994.5	13731.9	10116.7
40°	18872.9	18859.3	18612.5	18270.7	17940.2	17858.7	17451.2	16215.2	14992.8	14684.9	10813.9
42.5°	18703.1	18732.5	18569.5	18476.7	18415.6	18474.5	18512.9	17313.2	16081.7	15798.7	11570.0
45°	18182.4	18166.6	18143.9	18295.6	18639.7	19026.8	19563.3	18349.9	17265.6	17039.2	12584.2
47.5°	17252.0	17365.2	17421.8	17840.6	18592.2	19509.0	20772.2	19739.9	18983.8	18786.9	14130.3
50°	15950.4	16040.9	16376.0	17120.7	18241.3	19690.1	21953.8	22012.7	21849.7	21480.7	15810.0
52.5°	13917.5	14057.9	14748.3	16113.4	17521.4	19615.4	22669.2	23961.8	24176.8	23900.7	17464.8
55°	11642.5	11839.4	12568.3	14359.0	16529.9	19207.9	23162.7	25091.4	25949.4	25693.5	19058.5
57.5°	9414.9	9623.2	10372.5	12106.5	14800.4	18306.9	23486.4	26350.0	28362.5	28029.7	21041.5
60°	7056.1	7273.4	7916.3	9702.4	12337.4	16545.7	23266.8	27441.2	30773.4	30630.8	23026.9
62.5°	4552.4	4792.4	5351.5	6829.7	9482.8	14139.4	22091.9	28043.3	32860.6	32688.5	24475.7
65°	2773.1	2800.3	3108.1	4240.0	6490.2	10947.5	19404.9	27244.2	33960.8	33908.7	24917.1
67.5°	1792.9	1835.9	1976.3	2539.9	3891.4	7603.9	15515.7	24606.9	33317.9	33299.7	24004.8
70°	1514.4	1528.0	1591.4	1713.7	2261.5	4611.3	10895.4	20403.2	30875.3	30875.3	21811.2
72.5°	1353.7	1371.8	1394.5	1433.0	1614.1	2612.4	6501.5	15882.5	26657.9	26834.5	18565.0
75°	1229.2	1224.7	1238.3	1245.1	1376.4	1706.9	3361.7	11746.6	20622.8	20269.6	13444.4
77.5°	1052.6	1059.4	1052.6	1082.1	1215.6	1299.4	1706.9	7882.4	12498.2	12040.9	6748.2
80°	864.8	876.1	887.4	905.5	1039.1	987.0	1025.5	3592.6	4622.6	4525.2	2084.9
82.5°	649.7	665.5	683.7	726.7	817.2	652.0	647.4	1534.8	1668.4	1528.0	767.4
85°	262.6	310.1	468.6	511.6	513.9	357.7	398.4	640.6	681.4	665.5	301.1
87.5°	61.1	72.4	151.7	228.6	210.5	133.6	147.1	208.3	237.7	219.6	101.9
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: P456242
 CATALOG NUMBER: GALN-SA7C-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8	3877.8
2.5°	3954.8	3875.5	3739.7	3635.6	3560.9	3495.2	3454.5	3429.6	3420.5	3418.3	3420.5
5°	4088.3	3948.0	3732.9	3597.1	3522.4	3479.4	3454.5	3452.2	3454.5	3456.7	3450.0
7.5°	4271.7	4070.2	3789.5	3662.7	3606.2	3574.5	3563.1	3558.6	3560.9	3558.6	3558.6
10°	4516.2	4240.0	3900.4	3769.1	3721.6	3685.4	3667.3	3656.0	3646.9	3637.8	3633.3
12.5°	4785.6	4427.9	4020.4	3893.6	3825.7	3769.1	3728.4	3699.0	3678.6	3658.2	3653.7
15°	5086.6	4627.1	4154.0	3977.4	3880.1	3796.3	3726.1	3678.6	3642.4	3612.9	3610.7
17.5°	5374.1	4815.0	4244.5	4015.9	3873.3	3755.6	3662.7	3597.1	3551.8	3513.3	3508.8
20°	5682.0	4993.8	4285.3	3991.0	3805.4	3662.7	3540.5	3461.3	3409.2	3366.2	3359.4
22.5°	5992.1	5145.5	4280.7	3911.8	3687.6	3520.1	3391.1	3307.3	3246.2	3203.2	3187.4
25°	6288.7	5267.7	4224.2	3785.0	3524.7	3350.3	3219.1	3142.1	3087.8	3035.7	3035.7
27.5°	6555.8	5340.2	4117.8	3631.1	3357.1	3173.8	3069.6	2999.5	2949.7	2915.7	2895.3
30°	6818.4	5374.1	3972.9	3436.4	3180.6	3024.4	2940.6	2899.9	2854.6	2816.1	2811.6
32.5°	7053.8	5367.3	3791.8	3246.2	3013.0	2902.1	2868.2	2836.5	2788.9	2734.6	2721.0
35°	7282.5	5322.1	3576.7	3038.0	2872.7	2829.7	2838.7	2793.5	2707.4	2639.5	2628.2
37.5°	7531.5	5240.6	3341.3	2868.2	2755.0	2795.7	2818.4	2718.8	2578.4	2472.0	2447.1
40°	7819.0	5147.8	3096.8	2698.4	2662.2	2764.0	2764.0	2580.7	2388.3	2322.6	2304.5
42.5°	8156.3	5070.8	2893.1	2555.8	2585.2	2687.1	2675.8	2397.3	2318.1	2284.1	2275.1
45°	8690.5	5043.6	2682.5	2431.3	2521.8	2596.5	2503.7	2333.9	2288.6	2261.5	2252.4
47.5°	9534.9	5075.3	2496.9	2338.5	2449.4	2506.0	2311.3	2290.9	2259.2	2220.7	2216.2
50°	10318.2	5045.9	2365.6	2286.4	2386.0	2397.3	2232.1	2238.8	2220.7	2177.7	2168.7
52.5°	10958.8	4953.1	2281.9	2259.2	2331.7	2207.2	2157.4	2182.3	2175.5	2121.1	2112.1
55°	11662.8	4896.5	2241.1	2259.2	2295.4	2041.9	2087.2	2123.4	2114.3	2075.9	2073.6
57.5°	12516.3	4907.8	2211.7	2266.0	2259.2	1958.1	2017.0	2060.0	2057.7	2046.4	2046.4
60°	13390.1	4912.3	2166.4	2263.7	2216.2	1892.5	1944.6	2005.7	2010.2	2017.0	2017.0
62.5°	13679.8	4715.4	2078.1	2223.0	2121.1	1829.1	1876.6	1960.4	1955.9	1974.0	1976.3
65°	13138.8	4169.8	1946.8	2130.2	1998.9	1783.8	1824.6	1901.5	1876.6	1924.2	1933.2
67.5°	11959.4	3450.0	1743.1	1962.7	1863.1	1736.3	1790.6	1820.1	1774.8	1867.6	1869.9
70°	10336.3	2693.9	1485.0	1725.0	1709.1	1686.5	1763.5	1718.2	1654.8	1768.0	1745.4
72.5°	8643.0	2057.7	1186.2	1410.3	1503.1	1611.8	1715.9	1586.9	1498.6	1532.6	1491.8
75°	6492.4	1521.2	953.0	1104.7	1251.9	1505.4	1672.9	1428.4	1292.6	1260.9	1251.9
77.5°	3309.6	993.8	713.1	826.3	939.5	1360.5	1614.1	1242.8	1070.8	1021.0	998.3
80°	1181.7	618.0	502.6	570.5	633.8	1170.4	1410.3	1027.7	830.8	821.7	830.8
82.5°	547.8	398.4	337.3	373.5	375.8	781.0	1075.3	767.4	631.6	959.8	810.4
85°	235.4	199.2	190.2	185.6	172.0	348.6	604.4	412.0	642.9	287.5	264.9
87.5°	70.2	79.2	70.2	52.1	38.5	38.5	61.1	22.6	15.8	11.3	11.3
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)