

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: P532366

Luminaire Tested: **GALN-SA7D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38194 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

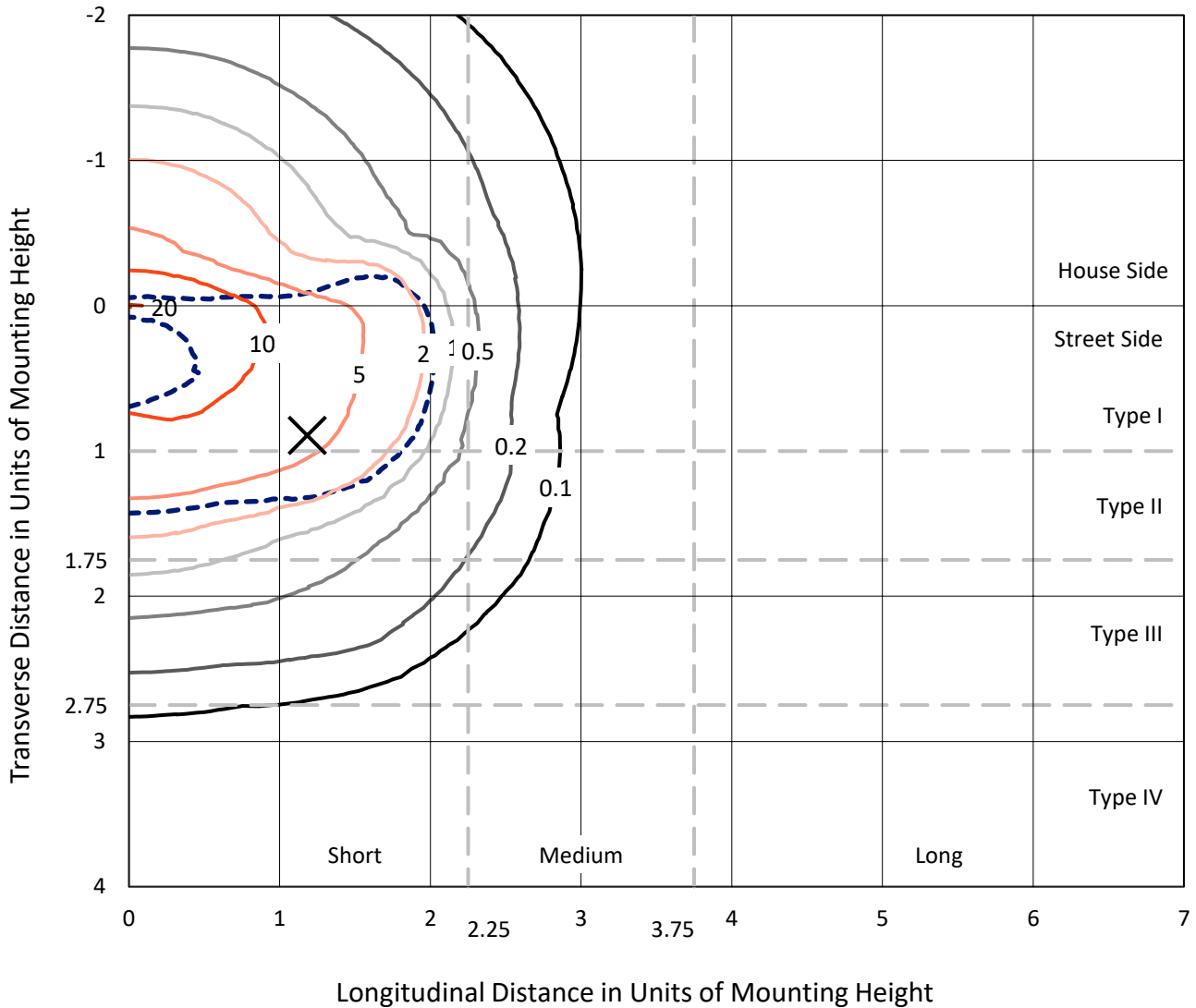
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532366  
 CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

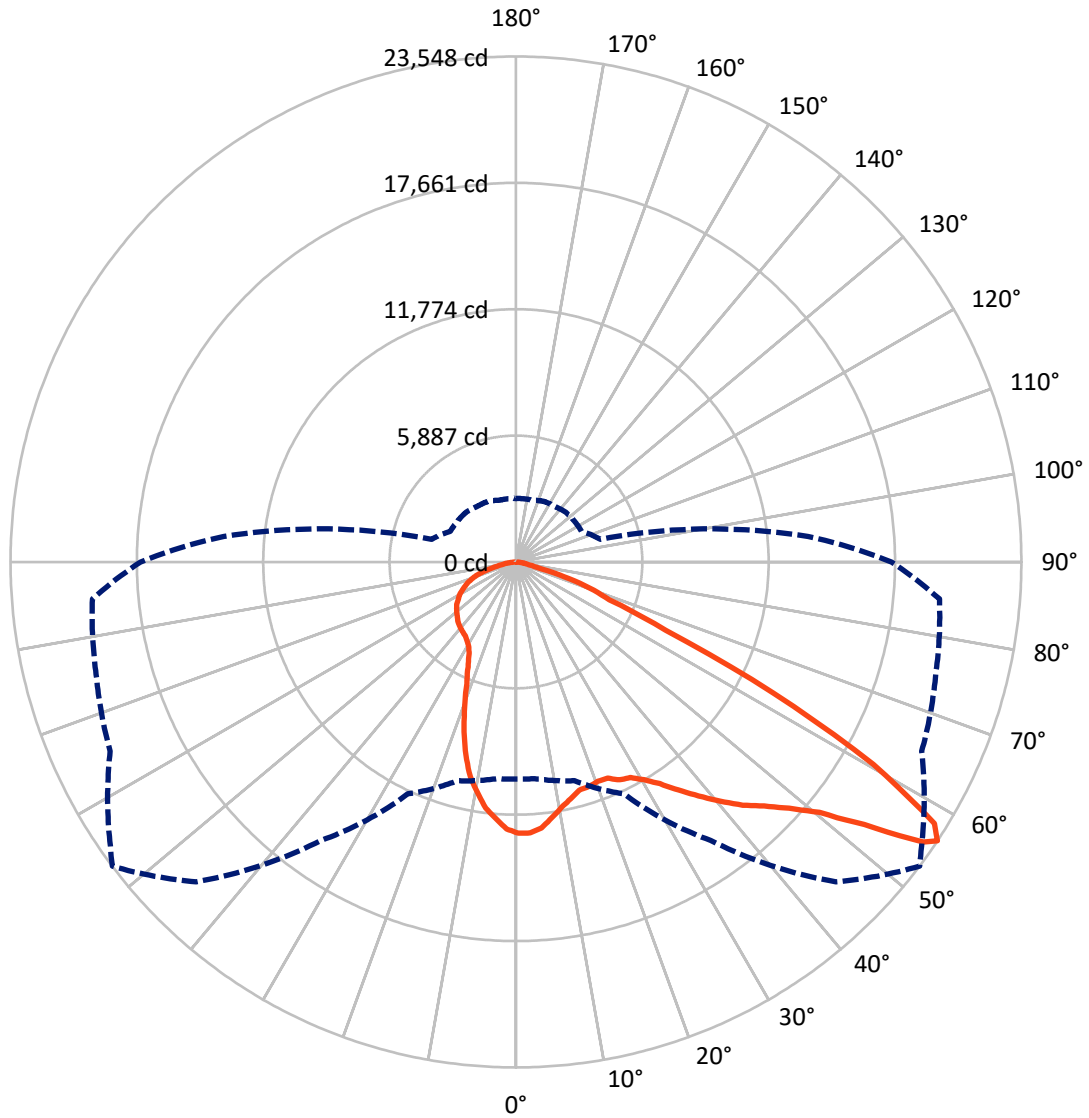
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P532366  
CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P532366  
 CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11145.9	0.0	11145.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	27048.2	0.0	27048.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	38194.0	0.0	38194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1118.6	2.9
10°-20°	2793.9	7.3
20°-30°	4119.9	10.8
30°-40°	5886.5	15.4
40°-50°	8102.0	21.2
50°-60°	9574.3	25.1
60°-70°	5102.5	13.4
70°-80°	1294.5	3.4
80°-90°	201.9	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°	38194.0	100.0
0°-180°	38194.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532366

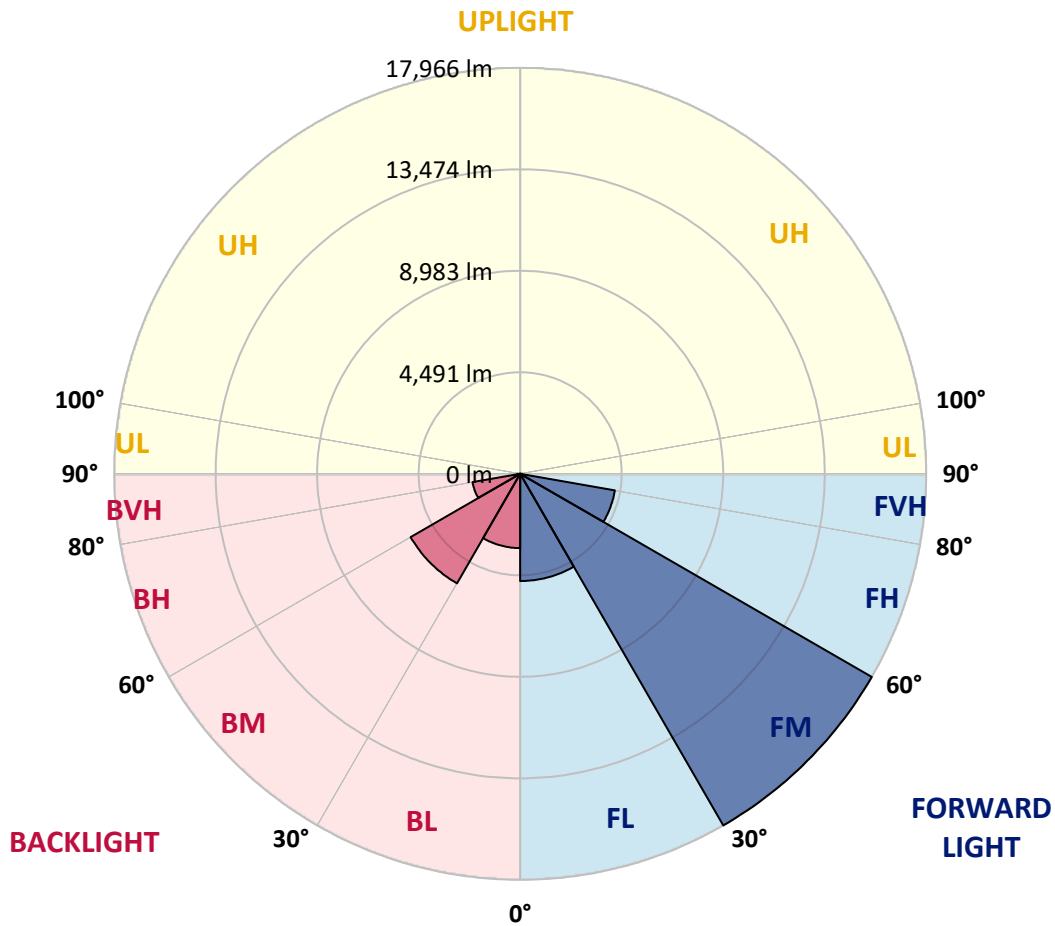
CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4745.1	12.4			
FM (30°-60°)	17965.7	47.0			
FH (60°-80°)	4256.2	11.1			G2/5000
FVH (80°-90°)	81.1	0.2			G1/100
BL (0°-30°)	3287.4	8.6	B4/5000		
BM (30°-60°)	5597.1	14.7	B4/8500		
BH (60°-80°)	2140.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	120.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P532366

CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1
2.5°	12479.3	12371.5	12435.2	12410.7	12611.6	12670.4	12641.0	12665.5	12778.2	12724.3	12611.6
5°	11661.1	11812.9	11842.3	11915.8	12033.4	12263.7	12445.0	12494.0	12547.9	12797.8	12773.3
7.5°	10916.3	11019.2	10965.3	11180.9	11435.7	11808.0	12028.5	12067.7	12562.6	12699.8	12802.7
10°	10446.0	10343.1	10588.0	10646.8	10935.9	11362.2	11626.8	11788.4	12239.2	12783.1	12846.8
12.5°	10009.9	9975.6	10122.6	10289.2	10612.5	11053.5	11323.0	11386.7	12082.4	12655.7	12954.6
15°	9686.5	9647.3	9794.3	9916.8	10294.1	10686.0	11029.0	11210.3	11910.9	12582.2	12861.5
17.5°	9431.7	9426.8	9510.1	9730.6	10117.7	10446.0	10999.6	11009.4	11822.7	12694.9	12939.9
20°	9417.0	9412.1	9426.8	9671.8	10024.6	10426.4	10906.5	10994.7	11822.7	12616.5	12944.8
22.5°	9539.5	9461.1	9549.3	9706.1	9960.9	10460.7	10940.8	11136.8	12106.9	13003.6	13165.2
25°	9735.5	9755.1	9804.1	9858.0	10005.0	10539.0	11244.6	11406.3	12440.1	13336.7	13469.0
27.5°	10093.2	10083.4	10103.0	10132.4	10259.8	10612.5	11367.1	11783.5	13135.8	13929.6	13797.3
30°	10617.4	10583.1	10661.5	10764.4	10646.8	10847.7	11773.8	12087.3	13782.6	14527.3	14164.8
32.5°	11092.7	11220.1	11367.1	11411.2	11269.1	11308.3	12312.7	12631.2	14321.5	15262.3	14615.5
35°	11685.6	11788.4	11984.4	12121.6	12097.1	11979.5	13047.6	13469.0	15100.6	15801.2	15090.8
37.5°	12263.7	12386.2	12709.6	13116.2	12890.9	12837.0	13831.6	14179.5	15340.7	16090.3	15438.7
40°	13194.6	13189.7	13748.3	13959.0	14159.9	14066.8	14644.9	14762.5	15468.1	16026.6	15448.5
42.5°	14287.2	14218.7	14787.0	15115.3	15375.0	15384.8	15492.5	15453.4	15526.8	15703.2	15345.6
45°	15326.0	15473.0	16046.2	16634.2	16893.8	16923.2	16207.9	16134.4	15629.7	15610.1	15149.6
47.5°	16595.0	16629.3	17099.6	17873.8	18476.4	18270.6	17133.9	16972.2	16080.5	16232.4	15477.9
50°	16668.5	16923.2	17344.6	18255.9	20108.0	20054.1	18334.3	18030.5	16805.6	17114.3	16394.1
52.5°	15130.0	15071.2	15570.9	17060.4	19985.5	21827.7	20323.6	19598.4	18363.7	18128.5	17878.7
55°	11528.8	11666.0	12106.9	13611.1	17354.4	21852.2	23033.0	22440.2	20029.6	19627.8	19338.7
56°	10112.8	10132.4	10548.8	11920.7	15835.5	21073.2	23547.5	23067.3	20857.6	20245.2	19804.2
57.5°	8383.2	8270.5	8486.1	9235.8	13366.1	19426.9	22984.0	23454.4	21827.7	20911.5	20299.1
60°	6599.8	6575.3	6487.1	6624.3	8446.9	14635.1	19133.0	20191.3	21729.7	20284.4	19441.6
62.5°	5389.6	5267.1	5443.5	5639.4	5869.7	9079.0	13444.5	14066.8	17251.5	16193.2	14605.7
65°	4179.4	4120.6	4341.0	4978.0	5115.2	5766.8	7658.1	8138.2	10186.3	10005.0	8809.5
67.5°	2876.1	2885.9	3077.0	4047.1	4742.8	4684.0	4688.9	4938.8	5316.1	3949.1	3439.5
70°	1822.7	1817.8	1920.6	2606.6	3816.8	3856.0	3660.0	3586.5	3400.3	2057.8	2180.3
72.5°	1171.0	1136.7	1190.6	1440.5	1974.5	2283.2	2351.8	2395.9	1969.6	1616.9	1754.1
75°	661.4	627.1	607.6	671.2	779.0	901.5	989.7	1019.1	1141.6	1224.9	1298.4
77.5°	200.9	181.3	220.5	294.0	387.1	519.4	632.0	651.6	769.2	867.2	940.7
80°	88.2	98.0	137.2	196.0	274.4	367.5	445.9	475.3	553.7	627.1	646.7
82.5°	53.9	58.8	93.1	132.3	191.1	259.7	318.5	328.3	406.7	465.5	480.2
85°	19.6	24.5	49.0	78.4	122.5	166.6	166.6	181.3	166.6	166.6	181.3
87.5°	0.0	0.0	4.9	9.8	9.8	14.7	19.6	19.6	24.5	29.4	34.3
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: P532366

CATALOG NUMBER: GALN-SA7D-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1	12636.1
2.5°	12670.4	12645.9	12606.7	12464.6	12449.9	12405.8	12160.8	12121.6	12160.8	12043.2	12053.0
5°	12645.9	12719.4	12425.4	12283.3	12018.7	11827.6	11607.2	11494.5	11293.6	11166.2	11308.3
7.5°	12753.7	12724.3	12356.8	12048.1	11651.3	11166.2	10779.1	10558.6	10205.9	10107.9	10181.4
10°	12714.5	12557.7	12126.5	11719.9	10970.2	10543.9	9916.8	9309.2	8976.1	8804.6	8780.1
12.5°	12660.6	12616.5	11896.2	11195.6	10406.8	9510.1	8628.2	8055.0	7511.1	7275.9	7310.2
15°	12724.3	12351.9	11465.1	10578.2	9529.7	8353.8	7403.3	6663.5	6286.2	6134.3	6134.3
17.5°	12694.9	12224.5	11259.3	9887.4	8559.6	7168.1	6124.5	5678.6	5521.9	5521.9	5566.0
20°	12709.6	12307.8	10842.8	9196.6	7413.1	6036.3	5276.9	5115.2	5183.8	5208.3	5232.8
22.5°	12792.9	12033.4	10436.2	8437.1	6349.9	5164.2	4791.8	4796.7	4919.2	5051.5	5027.0
25°	12895.8	11925.6	9941.3	7682.6	5536.6	4737.9	4620.3	4605.6	4698.7	4767.3	4777.1
27.5°	12807.6	11739.5	9436.6	6741.9	4870.2	4453.7	4429.2	4439.0	4468.4	4605.6	4561.5
30°	13096.6	11793.3	8804.6	5953.0	4502.7	4360.6	4331.3	4316.6	4360.6	4399.8	4365.5
32.5°	13454.3	11602.3	8334.2	5193.6	4321.5	4292.1	4233.3	4213.7	4238.2	4199.0	4218.6
35°	13611.1	11568.0	7721.8	4649.7	4179.4	4154.9	4120.6	4115.7	4120.6	4086.3	4056.9
37.5°	13699.3	11729.7	7021.1	4399.8	4091.2	4115.7	4037.3	4027.5	3939.3	3958.9	3973.6
40°	13851.2	11479.8	6452.8	4159.8	4037.3	3988.3	3919.7	3905.0	3846.2	3811.9	3846.2
42.5°	13630.7	11406.3	5894.2	4056.9	3958.9	3905.0	3856.0	3772.7	3753.1	3723.7	3704.1
45°	13454.3	10984.9	5394.5	3929.5	3865.8	3836.4	3743.3	3655.1	3581.6	3611.0	3566.9
47.5°	13586.6	10837.9	4899.6	3821.7	3738.4	3704.1	3611.0	3542.4	3468.9	3434.6	3424.8
50°	14115.8	11112.3	4483.1	3743.3	3630.6	3611.0	3488.5	3410.1	3341.5	3317.0	3326.8
52.5°	15379.9	11861.9	4199.0	3581.6	3527.7	3439.5	3370.9	3272.9	3228.8	3150.4	3199.4
55°	16982.0	13081.9	4125.5	3429.7	3400.3	3321.9	3228.8	3155.3	3072.1	3008.4	2993.7
56°	17496.5	13665.0	4066.7	3370.9	3321.9	3277.8	3155.3	3111.2	2979.0	2964.3	2954.5
57.5°	17913.0	14179.5	4076.5	3258.2	3209.2	3170.0	3096.6	2988.8	2900.6	2846.7	2871.2
60°	16972.2	13273.0	3890.3	3086.8	3077.0	3003.5	2900.6	2851.6	2743.8	2680.1	2665.4
62.5°	12616.5	9010.4	3155.3	2866.3	2861.4	2783.0	2665.4	2611.5	2591.9	2503.7	2503.7
65°	7266.1	5649.2	2729.1	2685.0	2645.8	2567.4	2449.8	2405.7	2356.7	2327.3	2302.8
67.5°	3101.4	2930.0	2479.2	2474.3	2430.2	2332.2	2214.6	2146.0	2082.3	2023.5	2052.9
70°	2248.9	2283.2	2239.1	2214.6	2160.7	2038.2	1935.3	1852.1	1754.1	1714.9	1744.3
72.5°	1783.5	1857.0	1920.6	1925.5	1861.8	1719.8	1607.1	1494.4	1386.6	1332.7	1357.2
75°	1352.3	1401.3	1465.0	1479.7	1386.6	1288.6	1180.8	1063.2	979.9	916.2	926.0
77.5°	975.0	965.2	1024.0	1014.2	970.1	901.5	803.5	695.7	602.7	543.9	548.8
80°	666.3	681.0	715.3	710.4	656.5	612.5	539.0	450.8	382.2	333.2	323.4
82.5°	465.5	490.0	519.4	494.9	450.8	406.7	352.8	289.1	235.2	196.0	186.2
85°	166.6	191.1	220.5	235.2	249.9	240.1	200.9	161.7	117.6	98.0	93.1
87.5°	34.3	39.2	44.1	44.1	44.1	39.2	34.3	34.3	29.4	14.7	14.7
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)