

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: P456389

Luminaire Tested: **GALN-SA7C-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456389  
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-SA7C-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 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: 35697 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

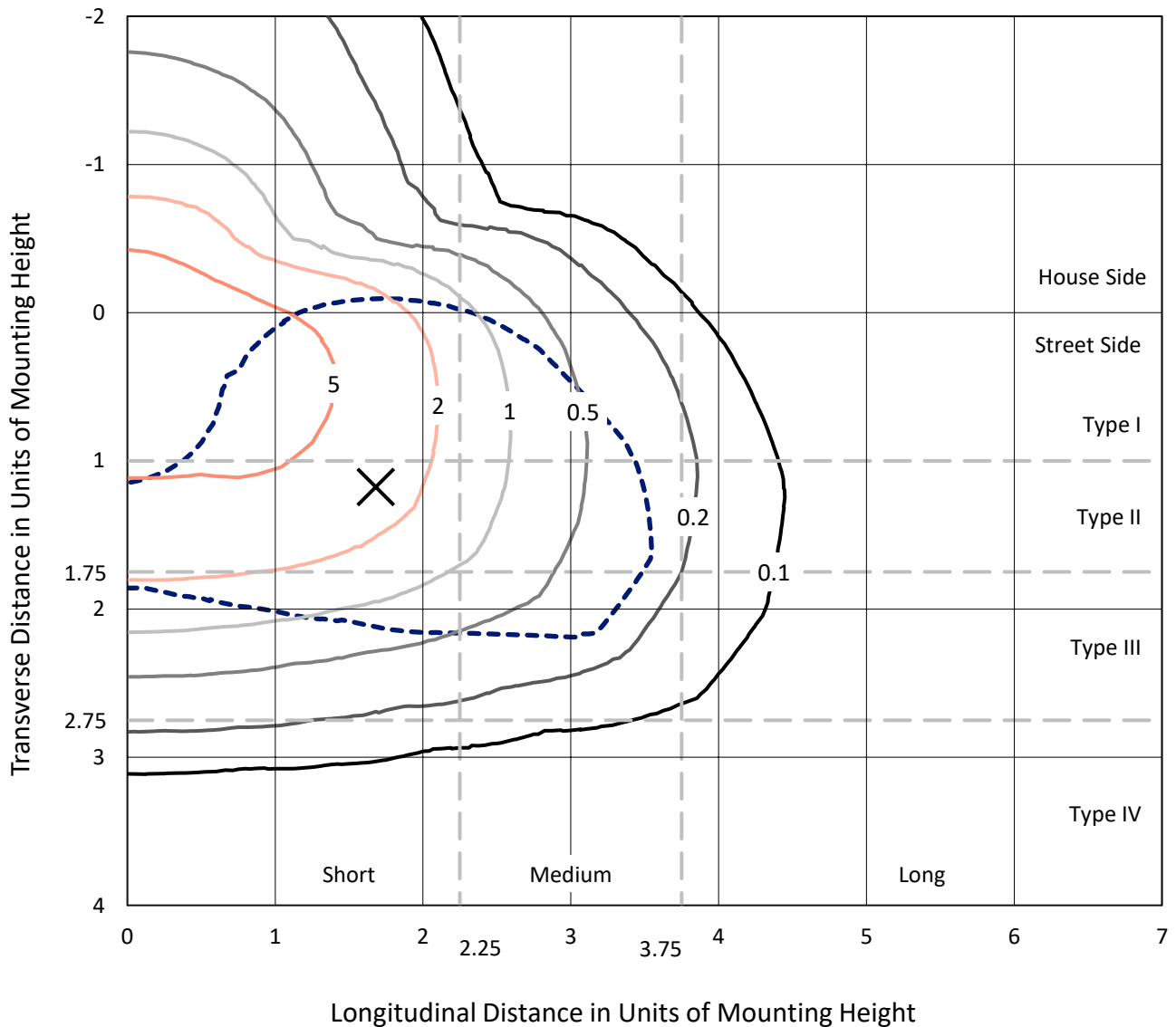
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456389  
 CATALOG NUMBER: GALN-SA7C-827-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

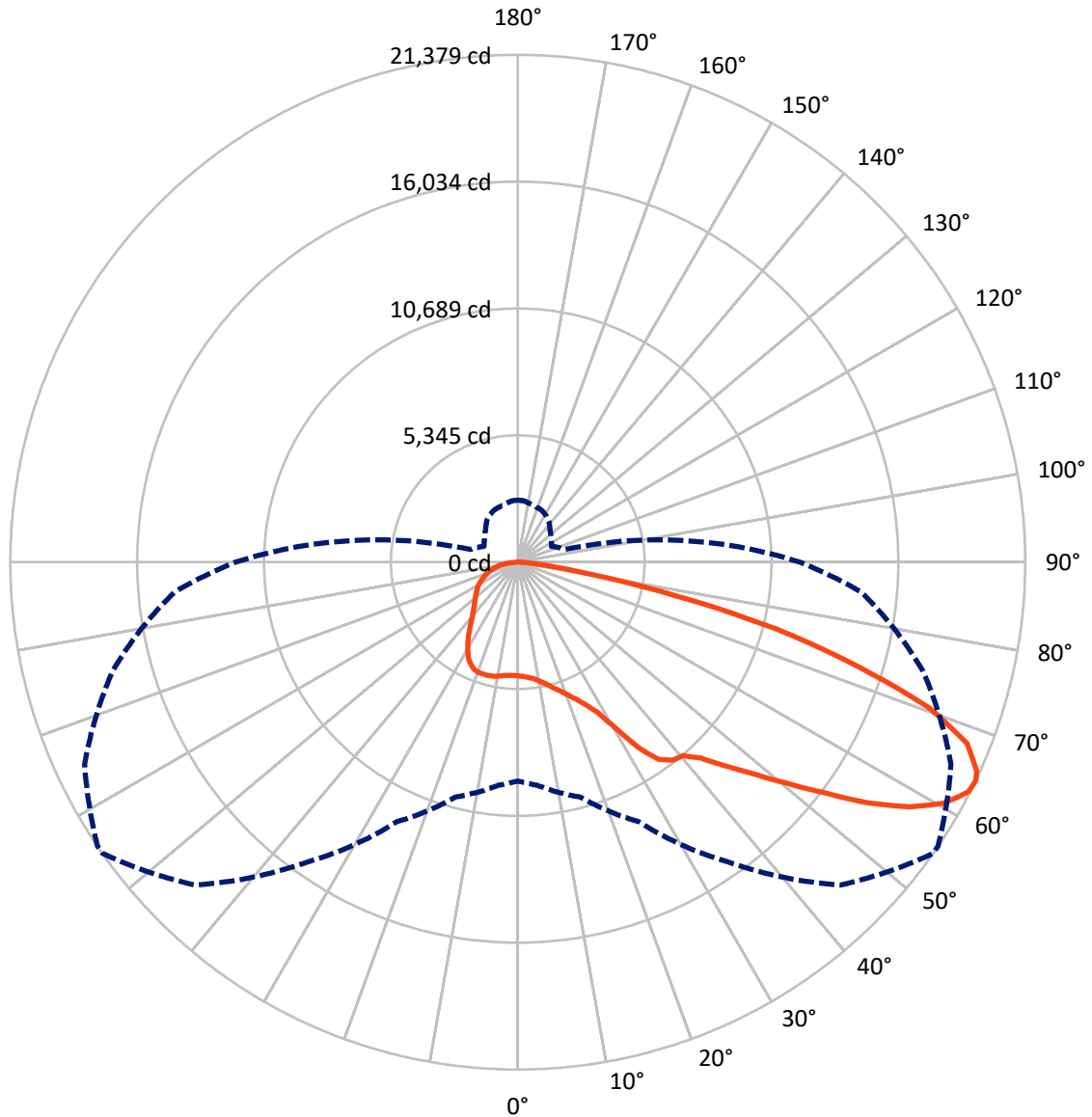
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P456389  
CATALOG NUMBER: GALN-SA7C-827-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456389

CATALOG NUMBER: GALN-SA7C-827-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8671.5	0.0	8671.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	27025.5	0.0	27025.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	35697.0	0.0	35697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	1.3
10°-20°	1470.0	4.1
20°-30°	2617.0	7.3
30°-40°	4026.6	11.3
40°-50°	5708.0	16.0
50°-60°	8262.1	23.1
60°-70°	8550.4	24.0
70°-80°	4004.2	11.2
80°-90°	592.8	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°	35697.0	100.0
0°-180°	35697.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456389

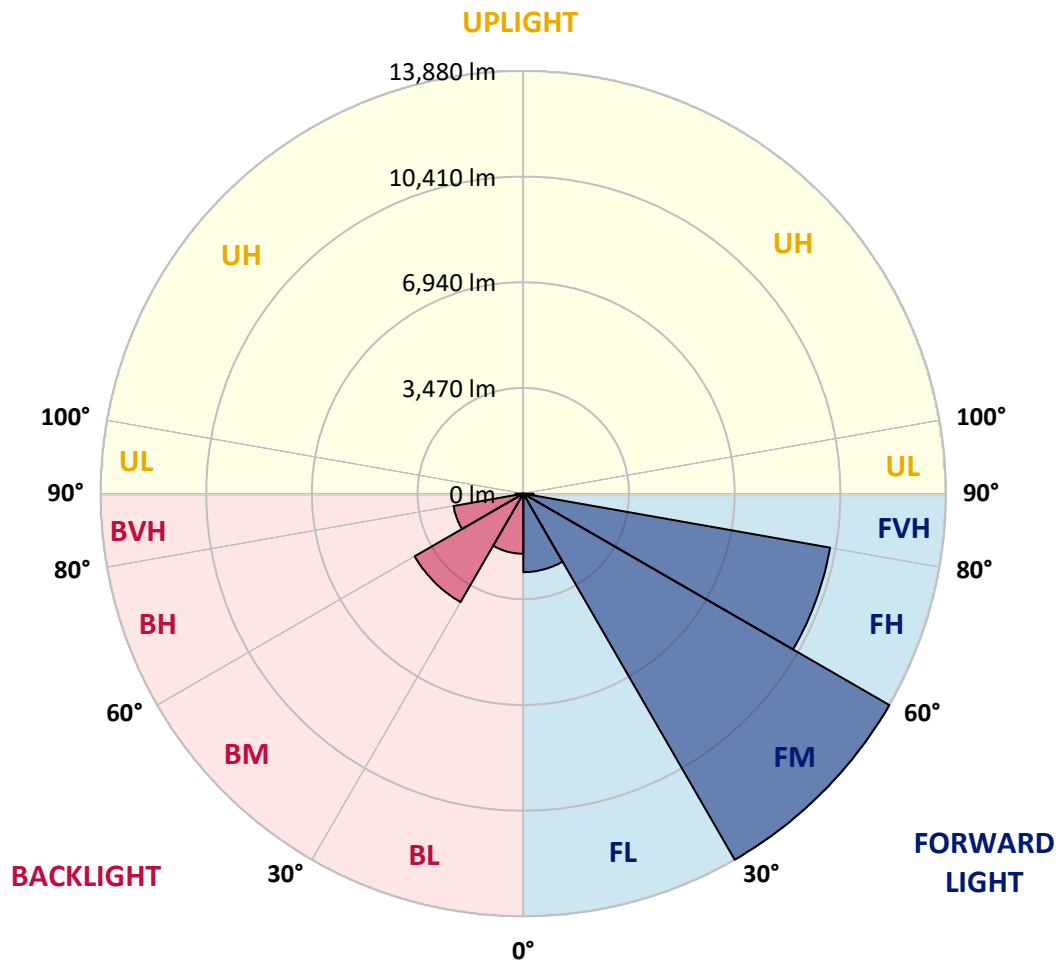
CATALOG NUMBER: GALN-SA7C-827-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.9	7.2			
FM	(30°-60°)	13880.0	38.9			
FH	(60°-80°)	10228.2	28.7			G4/12000
FVH	(80°-90°)	339.4	1.0			G3/500
BL	(0°-30°)	1975.0	5.5	B3/2500		
BM	(30°-60°)	4116.7	11.5	B3/5000		
BH	(60°-80°)	2326.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	253.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P456389

CATALOG NUMBER: GALN-SA7C-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5
2.5°	4843.2	4841.2	4847.2	4841.2	4845.2	4831.2	4825.3	4829.3	4823.3	4813.3	4795.4
5°	4902.9	4900.9	4902.9	4894.9	4898.9	4890.9	4877.0	4881.0	4871.0	4849.2	4823.3
7.5°	5004.4	4996.4	4996.4	4994.4	4986.5	4974.5	4964.6	4960.6	4950.6	4922.8	4883.0
10°	5135.7	5135.7	5137.7	5121.8	5131.7	5109.8	5099.9	5097.9	5064.1	5028.2	4972.5
12.5°	5308.8	5318.7	5312.8	5304.8	5300.8	5292.9	5259.1	5267.0	5229.2	5167.5	5099.9
15°	5523.7	5539.6	5529.7	5525.7	5515.7	5485.9	5472.0	5466.0	5416.2	5326.7	5237.2
17.5°	5808.2	5788.3	5780.4	5770.4	5728.6	5706.8	5682.9	5678.9	5635.1	5529.7	5390.4
20°	6057.0	6084.8	6068.9	6059.0	6017.2	5975.4	5957.5	5951.5	5913.7	5798.3	5575.4
22.5°	6353.4	6359.4	6365.4	6341.5	6321.6	6289.8	6257.9	6248.0	6234.1	6114.7	5842.1
25°	6669.8	6693.7	6673.8	6649.9	6626.0	6624.1	6653.9	6649.9	6644.0	6528.5	6196.3
27.5°	7185.2	7207.1	7213.0	7187.2	7095.6	7103.6	7171.3	7193.1	7284.7	7093.7	6651.9
30°	7475.7	7497.6	7547.3	7644.8	7790.1	7917.4	8080.6	8130.3	8217.9	7857.7	7193.1
32.5°	7654.8	7662.7	7752.3	7933.4	8369.1	8844.7	9288.4	9306.3	9362.0	8856.6	7688.6
35°	7937.3	7943.3	8014.9	8213.9	8725.3	9517.2	10203.7	10225.6	10179.8	9167.0	7919.4
37.5°	8285.5	8301.5	8347.2	8512.4	9123.3	10080.4	10583.8	10567.9	10161.9	9413.8	8327.3
40°	8792.9	8792.9	8739.2	8962.1	9543.1	10402.7	10717.1	10689.2	10581.8	10128.1	8948.2
42.5°	9240.7	9232.7	9360.0	9511.3	10068.4	10900.2	11276.2	11322.0	11499.1	11025.5	9654.5
45°	9823.7	9859.5	9931.1	10205.7	10961.8	11749.8	12235.3	12279.1	12529.8	12082.1	10480.3
47.5°	10412.6	10424.6	10649.4	11015.6	12068.2	12901.9	13299.9	13371.5	13600.3	13317.8	11369.7
50°	10830.5	10943.9	11304.1	11881.1	13208.3	14306.7	14617.1	14702.7	15106.6	14662.9	12406.4
52.5°	11272.2	11383.7	11823.4	12702.9	14517.6	15743.3	16125.4	16183.1	16602.9	16023.9	13467.0
55°	11650.3	11753.8	12253.2	13431.2	15560.3	17209.8	17902.3	17834.6	18035.6	17072.5	14284.8
57.5°	11712.0	11795.6	12424.3	13896.8	16344.3	18467.4	19460.3	19500.1	19267.3	17856.5	14959.4
60°	11234.4	11405.6	12127.9	13847.1	16696.5	19342.9	20622.3	20650.2	19989.6	18258.4	15228.0
62.5°	10388.8	10370.9	11244.4	13047.1	16203.0	19541.9	21306.8	21277.0	20272.1	18065.4	14967.3
64°	9220.8	9435.7	10251.5	12064.2	15407.1	19235.4	21378.5	21362.5	20136.8	17663.5	14523.6
65°	8508.4	8496.5	9302.3	11260.3	14615.1	18773.8	21251.1	21229.2	19854.3	17303.3	14179.3
67.5°	6142.5	6170.4	6966.3	8689.5	11881.1	16969.1	20421.4	20339.8	18740.0	16109.5	12870.1
70°	3720.9	3736.9	4361.7	5764.5	8528.3	13717.7	18407.7	18411.7	17034.7	14326.6	10953.9
72.5°	1960.0	2001.7	2252.5	3273.2	5179.5	9624.7	14933.5	15287.7	14625.1	12227.3	8653.7
75°	1090.4	1096.4	1273.5	1613.7	2642.5	5386.4	11224.5	11326.0	11578.7	9841.6	6399.2
77.5°	831.7	843.7	899.4	1042.7	1438.6	2497.2	6793.2	7302.6	8160.2	6938.4	3651.3
80°	674.5	686.5	734.2	819.8	957.1	1183.9	3155.8	3430.4	4367.6	3080.2	1424.7
82.5°	525.3	517.3	579.0	634.7	696.4	700.4	1295.4	1432.7	1778.9	1325.2	616.8
85°	390.0	390.0	439.7	427.8	449.7	409.9	571.1	630.8	712.4	563.1	286.5
87.5°	155.2	171.1	288.5	258.7	201.0	161.2	210.9	222.9	246.7	220.9	119.4
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: P456389  
 CATALOG NUMBER: GALN-SA7C-827-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5	4789.5
2.5°	4797.4	4803.4	4789.5	4779.5	4775.5	4769.6	4763.6	4765.6	4773.5	4781.5	4779.5
5°	4821.3	4823.3	4799.4	4787.5	4779.5	4771.6	4771.6	4777.5	4793.4	4805.4	4805.4
7.5°	4881.0	4881.0	4847.2	4825.3	4813.3	4799.4	4795.4	4797.4	4809.4	4825.3	4827.3
10°	4974.5	4966.6	4922.8	4889.0	4867.1	4833.2	4803.4	4787.5	4793.4	4803.4	4803.4
12.5°	5087.9	5066.0	5010.3	4964.6	4910.8	4847.2	4785.5	4753.6	4751.7	4761.6	4757.6
15°	5209.3	5185.4	5107.8	5024.3	4930.7	4837.2	4763.6	4717.8	4682.0	4672.1	4693.9
17.5°	5350.6	5300.8	5193.4	5078.0	4938.7	4817.3	4701.9	4608.4	4544.7	4526.8	4532.8
20°	5521.7	5456.0	5310.8	5129.7	4932.7	4745.7	4566.6	4441.2	4337.8	4305.9	4309.9
22.5°	5758.5	5645.1	5432.2	5155.6	4883.0	4610.4	4361.7	4198.5	4073.1	4023.4	4053.2
25°	6027.1	5903.8	5547.6	5149.6	4753.6	4393.5	4118.9	3906.0	3792.6	3718.9	3734.9
27.5°	6397.2	6178.3	5670.9	5095.9	4568.6	4128.8	3810.5	3609.5	3506.0	3468.2	3486.1
30°	6870.8	6534.5	5804.3	4950.6	4276.1	3794.6	3500.1	3368.7	3307.1	3259.3	3275.2
32.5°	7213.0	6785.2	5834.1	4705.9	3959.7	3490.1	3289.1	3191.6	3124.0	3078.2	3088.2
35°	7457.8	6998.1	5820.2	4405.4	3629.4	3239.4	3122.0	3042.4	2933.0	2833.5	2815.6
37.5°	7786.1	7264.8	5718.7	4077.1	3303.1	3070.3	2986.7	2839.5	2682.3	2548.9	2543.0
40°	8289.5	7577.2	5501.8	3691.1	3024.5	2944.9	2843.4	2652.4	2483.3	2375.8	2367.9
42.5°	8808.9	7865.7	5207.3	3285.2	2795.7	2813.6	2690.2	2501.2	2397.7	2328.1	2320.1
45°	9443.6	8178.1	4889.0	2933.0	2626.5	2690.2	2556.9	2447.5	2385.8	2340.0	2328.1
47.5°	10130.1	8498.5	4530.8	2616.6	2483.3	2576.8	2501.2	2451.4	2417.6	2385.8	2371.8
50°	10870.3	8856.6	4194.5	2361.9	2353.9	2459.4	2495.2	2477.3	2457.4	2447.5	2435.5
52.5°	11682.1	9222.7	3912.0	2182.8	2240.5	2375.8	2497.2	2511.1	2511.1	2505.2	2497.2
55°	12231.3	9477.4	3625.4	2037.6	2125.1	2308.2	2493.2	2547.0	2566.8	2558.9	2550.9
57.5°	12637.2	9616.7	3265.3	1912.2	2027.6	2242.5	2471.3	2550.9	2570.8	2580.8	2576.8
60°	12720.8	9487.4	2793.7	1780.9	1922.2	2147.0	2391.7	2491.2	2517.1	2578.8	2584.8
62.5°	12344.7	9089.4	2324.1	1651.5	1792.8	2001.7	2284.3	2423.6	2475.3	2570.8	2580.8
64°	11883.1	8643.7	2063.4	1570.0	1709.2	1920.2	2230.6	2405.7	2473.3	2600.7	2608.6
65°	11544.8	8319.4	1900.3	1518.2	1655.5	1866.4	2200.7	2411.6	2491.2	2646.4	2658.4
67.5°	10299.2	7203.1	1571.9	1396.8	1528.2	1774.9	2206.7	2461.4	2487.3	2664.3	2662.4
70°	8522.3	5734.6	1317.3	1285.4	1404.8	1701.3	2182.8	2381.8	2383.8	2501.2	2473.3
72.5°	6381.3	4238.3	1142.1	1170.0	1267.5	1526.2	2061.4	2274.3	2240.5	2256.4	2228.6
75°	4383.5	2803.6	983.0	1046.6	1124.2	1349.1	1890.3	2065.4	2011.7	1991.8	1971.9
77.5°	2340.0	1550.1	817.8	925.3	977.0	1166.0	1649.5	1818.7	1763.0	1685.4	1659.5
80°	947.1	730.3	658.6	766.1	795.9	939.2	1373.0	1478.4	1436.6	1301.3	1257.6
82.5°	475.6	437.8	517.3	602.9	604.9	670.6	1020.8	1120.3	1026.7	861.6	823.8
85°	248.7	256.7	356.2	423.8	374.1	362.1	612.9	678.5	622.8	541.2	487.5
87.5°	89.5	103.5	187.0	185.1	131.3	69.6	135.3	65.7	35.8	21.9	27.9
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)