

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: P532160

Luminaire Tested: **GALN-SA7C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37728 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

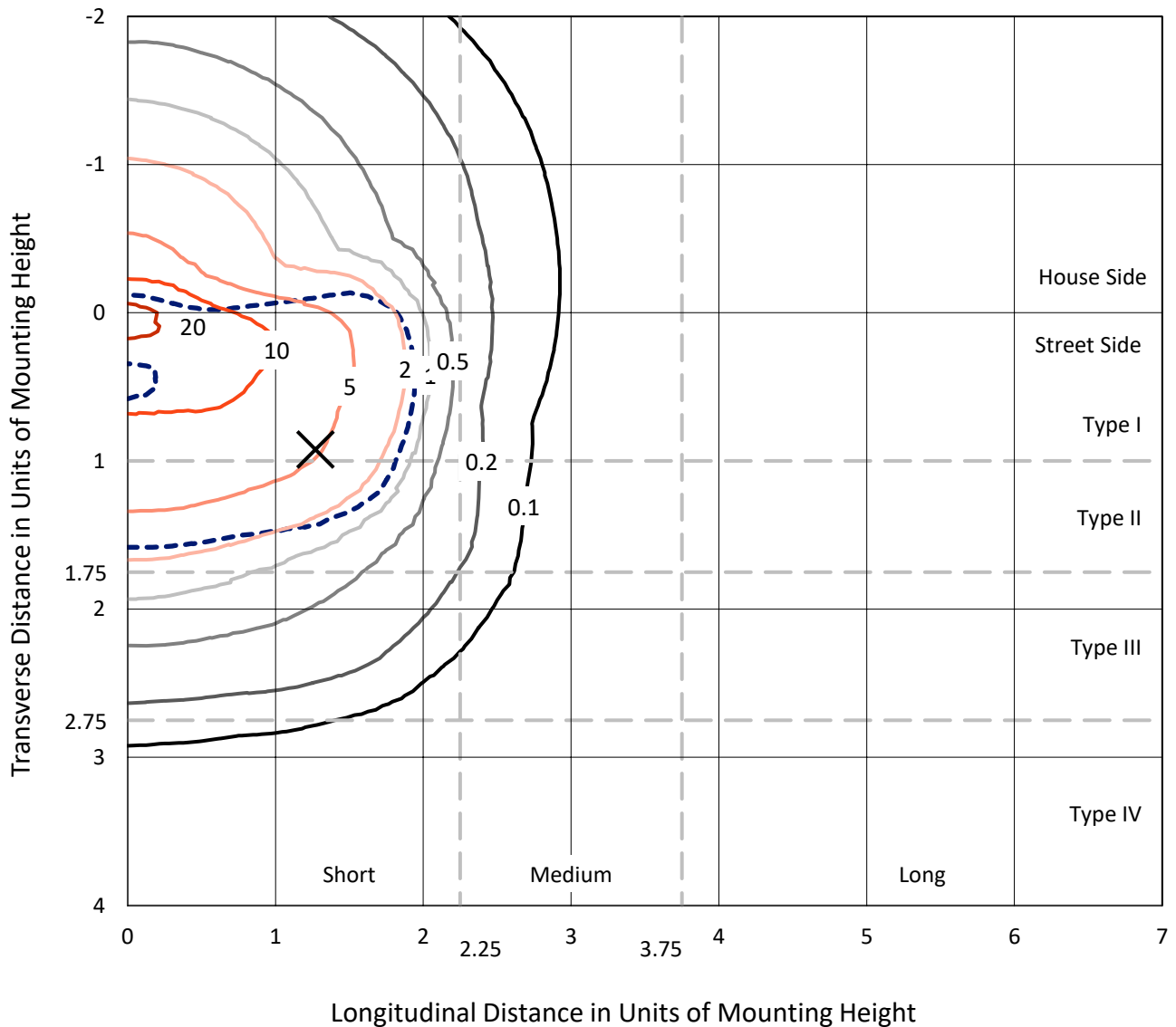
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

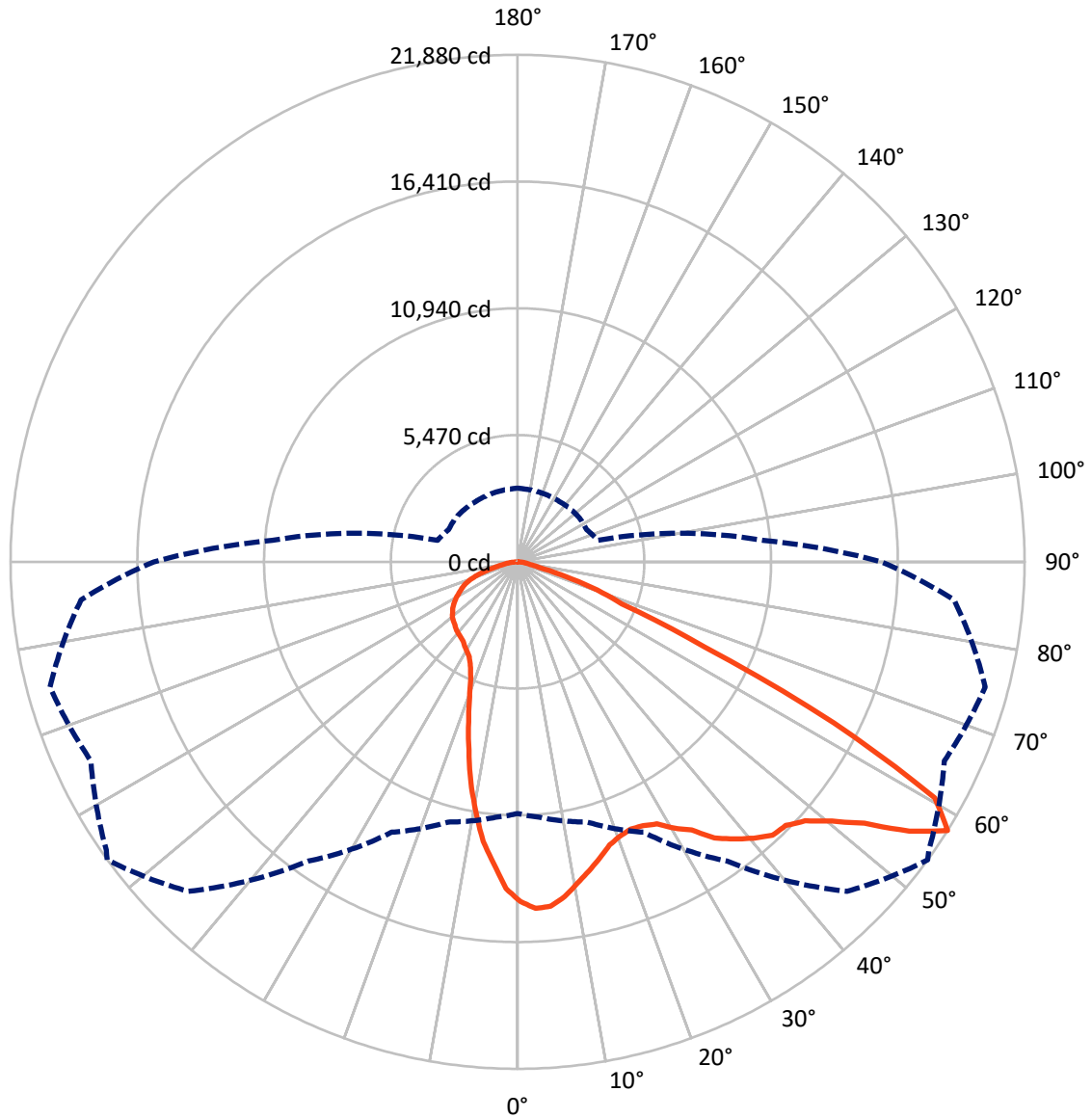
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10437.7	0.0	10437.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	27290.3	0.0	27290.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	37728.0	0.0	37728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1264.7	3.4
10°-20°	2928.2	7.8
20°-30°	4114.1	10.9
30°-40°	5751.6	15.2
40°-50°	7786.5	20.6
50°-60°	9484.3	25.1
60°-70°	4939.8	13.1
70°-80°	1265.8	3.4
80°-90°	193.1	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°	37728.0	100.0
0°-180°	37728.0	100.0

**Coefficient of Utilization**

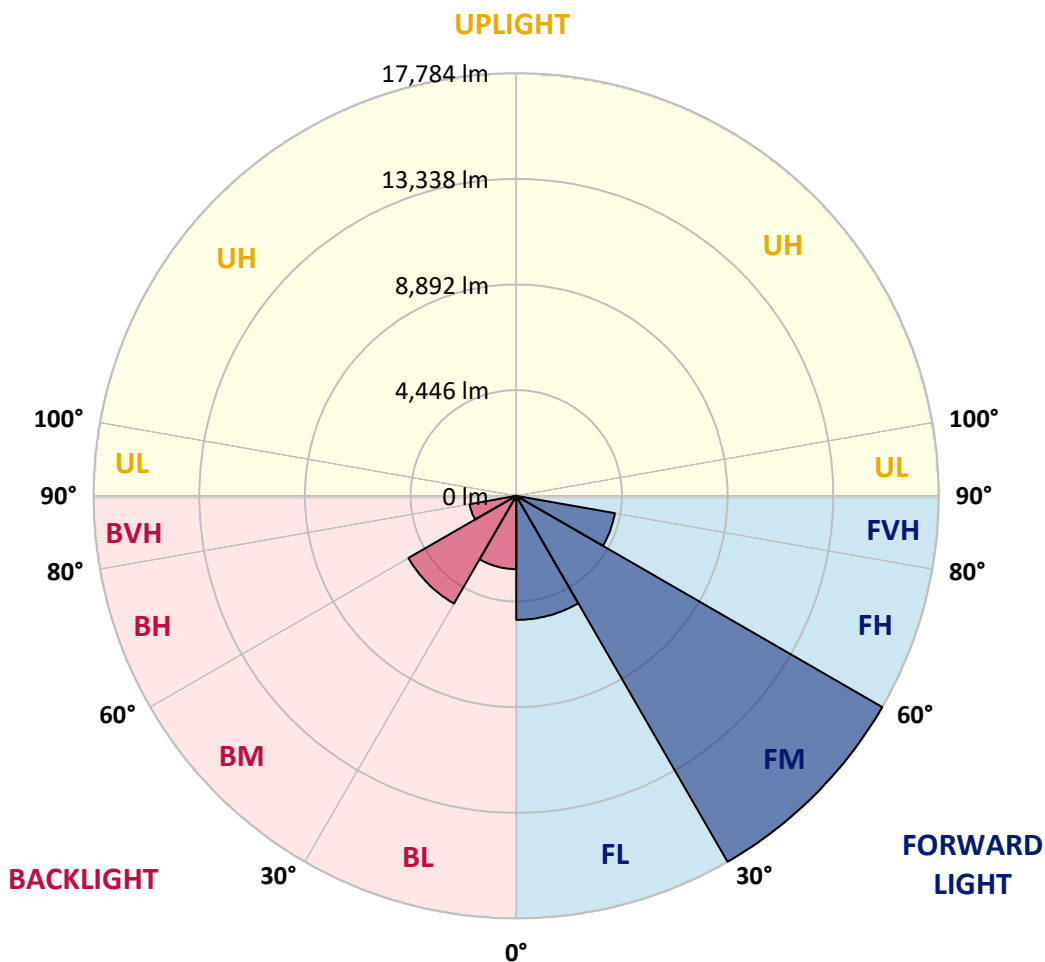


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5222.1	13.8			
FM (30°-60°)	17783.8	47.1			
FH (60°-80°)	4211.5	11.2			G2/5000
FVH (80°-90°)	73.0	0.2			G1/100
BL (0°-30°)	3084.9	8.2	B4/5000		
BM (30°-60°)	5238.6	13.9	B4/8500		
BH (60°-80°)	1994.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	120.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4
2.5°	15081.5	15023.3	15033.0	15110.6	15013.6	14974.8	14974.8	14785.7	14800.2	14669.3	14635.3
5°	14732.3	14596.6	14688.7	14805.1	14824.5	14863.3	14926.3	14877.8	14742.0	14601.4	14373.5
7.5°	13820.7	13941.9	13975.8	14058.3	14232.8	14392.9	14591.7	14455.9	14451.1	14310.4	14174.7
10°	13020.5	12947.8	13132.0	13253.3	13544.2	13811.0	14116.5	14101.9	14174.7	14014.6	13781.9
12.5°	12225.2	12167.0	12254.3	12530.7	12938.1	13326.0	13689.7	13553.9	13941.9	13912.8	13413.3
15°	11381.4	11425.1	11551.2	11808.2	12341.6	12807.1	13267.8	13272.7	13617.0	13733.4	13064.2
17.5°	10789.8	10741.3	10901.3	11284.4	11759.7	12317.4	12841.1	12947.8	13476.4	13544.2	12957.5
20°	10348.5	10416.4	10624.9	10818.9	11366.9	12040.9	12632.6	12671.4	13447.3	13631.5	12787.7
22.5°	10241.8	10203.0	10270.9	10586.1	11037.1	11769.4	12521.0	12666.5	13442.4	13602.4	12467.7
25°	10130.3	10256.4	10251.5	10566.7	10896.5	11551.2	12613.2	12773.2	13699.4	13752.8	12511.3
27.5°	10382.5	10367.9	10503.7	10527.9	10935.3	11609.3	12807.1	12928.4	14126.2	14082.5	12545.3
30°	10634.6	10561.9	10644.3	10930.4	11119.6	11944.0	13340.6	13330.9	14679.0	14649.9	12652.0
32.5°	10945.0	10911.0	10964.4	11216.6	11536.6	12390.1	13791.6	14077.7	15241.5	15425.8	13020.5
35°	11003.2	11143.8	11269.9	11609.3	12065.2	13112.6	14640.2	14877.8	15891.3	16468.4	13723.7
37.5°	11371.7	11425.1	11720.9	12322.2	12739.2	14077.7	15178.5	15328.8	16482.9	17137.6	14465.6
40°	11764.5	11827.6	12273.7	12904.1	13476.4	14708.1	15682.8	15731.3	16672.1	17651.6	14950.6
42.5°	12298.0	12356.1	12797.4	13587.9	14354.1	15246.4	16128.9	16182.3	16657.5	18243.3	15721.6
45°	12850.8	12991.4	13510.3	14407.4	15096.0	15876.8	16230.8	16449.0	16793.3	18771.8	16347.2
47.5°	13626.7	13757.6	14184.4	15062.1	15867.1	16429.6	16701.2	16914.5	17118.2	19232.5	16749.7
50°	14451.1	14475.3	14994.2	15789.5	16381.1	17055.2	17578.9	17651.6	17545.0	19766.0	17433.4
52.5°	15057.2	15134.8	15537.3	16313.2	17195.8	18025.0	18742.7	18820.3	18611.8	19964.8	17666.2
55°	14053.4	14009.8	14664.4	15697.4	17743.8	19470.1	20512.8	20571.0	19387.7	20580.7	18427.5
57.5°	10862.5	11071.1	11628.7	12875.0	15765.2	20110.3	21880.3	21671.8	20318.8	20891.0	18912.5
60°	7894.7	7846.3	8219.7	9053.7	11880.9	17331.6	20687.3	20900.7	19557.4	18830.0	15595.5
62.5°	6430.2	6362.4	6391.4	6420.5	7666.8	11502.7	15314.3	15309.4	15062.1	13534.5	10518.2
65°	5140.3	5300.3	5314.9	5533.1	5693.1	6871.5	8874.3	9349.6	8142.1	6677.6	4844.5
67.5°	3874.6	3816.4	4010.4	4786.3	5087.0	4960.9	4844.5	4897.8	3481.8	2512.0	2366.5
70°	2284.0	2259.8	2492.6	3336.4	4189.8	3942.5	3651.6	3656.4	2390.7	1755.5	1954.3
72.5°	1251.1	1246.3	1294.8	1692.4	2381.0	2473.2	2191.9	2259.8	1425.7	1420.9	1527.5
75°	698.3	683.8	669.2	746.8	858.3	906.8	926.2	935.9	979.6	1096.0	1139.6
77.5°	257.0	247.3	247.3	286.1	363.7	455.8	577.1	586.8	693.5	795.3	838.9
80°	87.3	97.0	130.9	179.4	242.5	324.9	392.8	402.5	489.8	557.7	572.2
82.5°	53.3	58.2	87.3	126.1	174.6	227.9	291.0	295.8	363.7	407.3	426.7
85°	24.2	29.1	48.5	77.6	111.5	150.3	155.2	155.2	150.3	155.2	145.5
87.5°	0.0	0.0	9.7	9.7	9.7	14.5	19.4	14.5	24.2	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4	14664.4
2.5°	14533.5	14480.2	14315.3	14169.8	14126.2	13932.2	13646.1	13680.0	13471.5	13568.5	13466.7
5°	14334.7	14155.3	13733.4	13553.9	13083.6	12870.2	12724.7	12361.0	12191.3	12157.3	12011.8
7.5°	13825.5	13714.0	13185.4	12700.5	12201.0	11774.2	11226.3	10852.9	10586.1	10513.4	10300.0
10°	13423.0	13175.7	12443.4	11706.3	10993.5	10251.5	9538.7	8981.0	8709.4	8394.2	8287.5
12.5°	13025.4	12652.0	11662.7	10717.1	9795.7	8859.8	7996.6	7317.7	6726.1	6585.4	6536.9
15°	12778.0	12128.2	10964.4	9824.8	8515.5	7293.4	6430.2	5984.1	5620.4	5470.1	5576.8
17.5°	12453.1	11696.6	10295.2	8777.3	7337.1	6212.0	5489.5	5213.1	5082.1	5096.7	5053.0
20°	12045.8	11289.3	9417.4	7826.9	6284.8	5387.6	4975.4	4873.6	4893.0	4926.9	4912.4
22.5°	11754.8	10794.7	8782.2	6857.0	5431.3	4931.8	4762.1	4689.3	4752.4	4781.5	4757.2
25°	11531.8	10372.8	8011.1	5998.6	4936.6	4674.8	4597.2	4592.3	4689.3	4728.1	4703.9
27.5°	11328.1	9980.0	7244.9	5344.0	4606.9	4476.0	4451.7	4509.9	4572.9	4611.7	4645.7
30°	11206.9	9679.3	6527.2	4796.0	4442.0	4379.0	4335.3	4388.7	4422.6	4461.4	4442.0
32.5°	11323.2	9465.9	5833.8	4485.7	4306.2	4243.2	4301.4	4267.4	4325.6	4359.6	4306.2
35°	11686.9	9276.8	5339.1	4320.8	4151.0	4175.3	4185.0	4170.4	4194.7	4165.6	4228.6
37.5°	12045.8	9208.9	4883.3	4180.1	4078.3	4078.3	4068.6	4039.5	4088.0	4078.3	4107.4
40°	12501.6	9252.6	4495.3	4029.8	4010.4	4000.7	3961.9	3957.1	3937.7	3942.5	3952.2
42.5°	12899.3	9349.6	4272.3	3932.8	3947.4	3966.8	3894.0	3835.8	3860.1	3811.6	3811.6
45°	13321.2	9436.8	4073.5	3864.9	3850.4	3845.5	3787.3	3753.4	3734.0	3738.9	3782.5
47.5°	13985.5	9562.9	3923.1	3772.8	3782.5	3709.8	3695.2	3651.6	3671.0	3700.1	3704.9
50°	14455.9	9829.6	3806.7	3666.1	3700.1	3651.6	3564.3	3544.9	3544.9	3593.4	3583.7
52.5°	14785.7	10203.0	3695.2	3549.7	3564.3	3525.5	3496.4	3452.7	3423.6	3491.5	3525.5
55°	15794.3	10823.8	3666.1	3452.7	3447.9	3409.1	3355.8	3312.1	3297.6	3307.3	3375.1
57.5°	15697.4	10629.8	3574.0	3283.0	3273.3	3220.0	3166.6	3152.1	3147.2	3156.9	3176.3
60°	12744.1	7851.1	3190.9	3089.0	3074.5	3064.8	3011.4	2953.3	2924.2	2953.3	2929.0
62.5°	8433.0	5256.7	2812.6	2856.3	2866.0	2841.7	2754.4	2696.2	2705.9	2739.9	2686.5
65°	4141.3	3089.0	2550.8	2667.1	2676.8	2609.0	2526.5	2458.6	2424.7	2453.8	2429.5
67.5°	2366.5	2361.6	2337.4	2458.6	2453.8	2385.9	2254.9	2196.8	2138.6	2148.3	2133.7
70°	2007.6	2046.4	2094.9	2167.7	2162.8	2085.2	1930.0	1886.4	1804.0	1794.3	1770.0
72.5°	1580.9	1648.8	1755.5	1808.8	1765.2	1668.2	1566.3	1493.6	1420.9	1377.2	1391.8
75°	1173.5	1270.5	1328.7	1362.7	1294.8	1241.4	1159.0	1071.7	984.4	945.6	931.1
77.5°	853.5	882.6	935.9	960.2	916.5	863.2	814.7	727.4	645.0	591.6	577.1
80°	596.5	615.9	654.7	654.7	654.7	630.4	567.4	480.1	426.7	378.2	368.6
82.5°	417.0	436.4	475.2	455.8	451.0	421.9	383.1	315.2	257.0	223.1	213.4
85°	145.5	160.0	194.0	232.8	247.3	242.5	218.2	174.6	135.8	111.5	101.8
87.5°	33.9	33.9	38.8	33.9	33.9	38.8	33.9	33.9	33.9	24.2	19.4
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)