

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: P459176

Luminaire Tested: **GALN-SA6C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27965 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

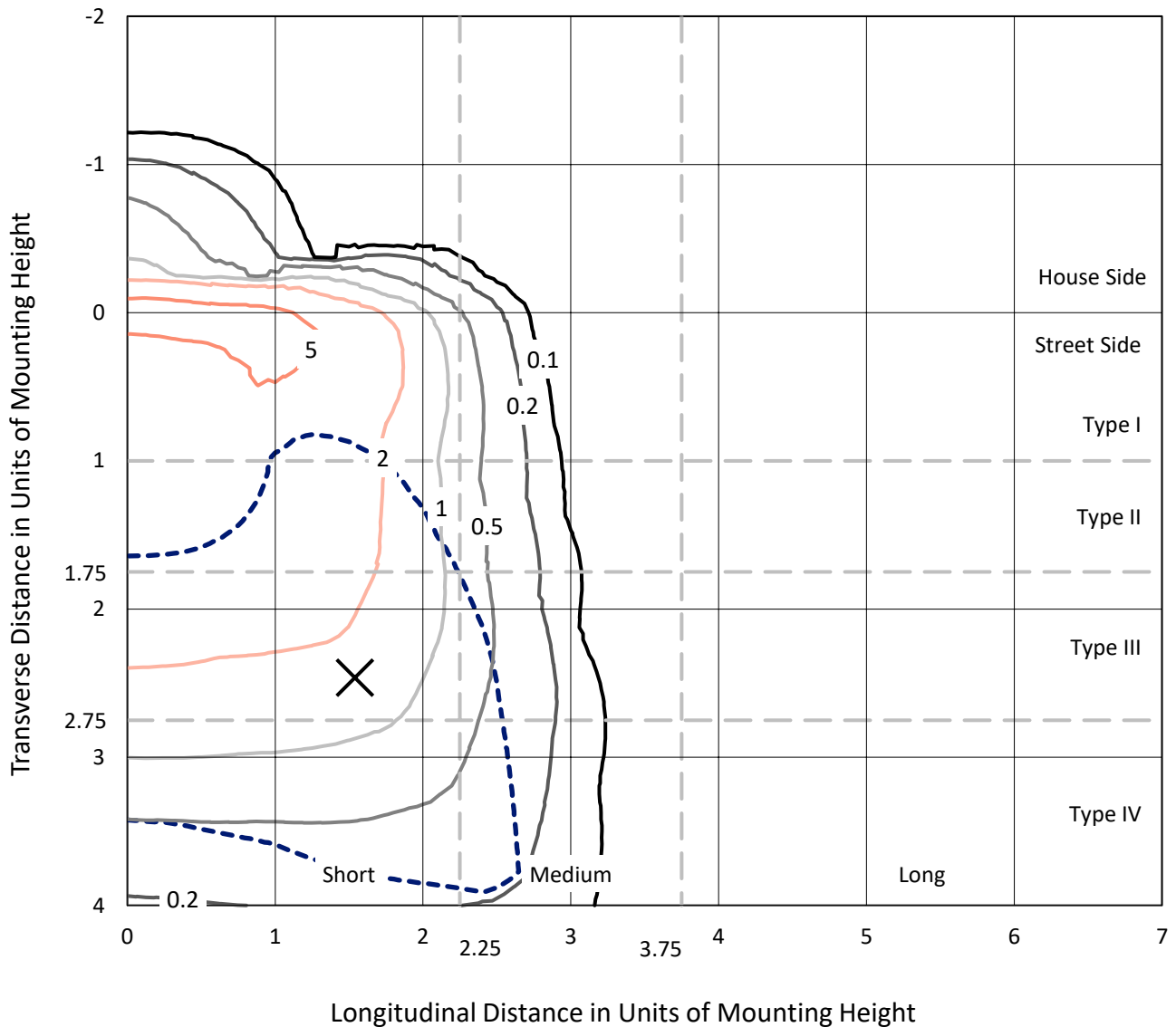
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

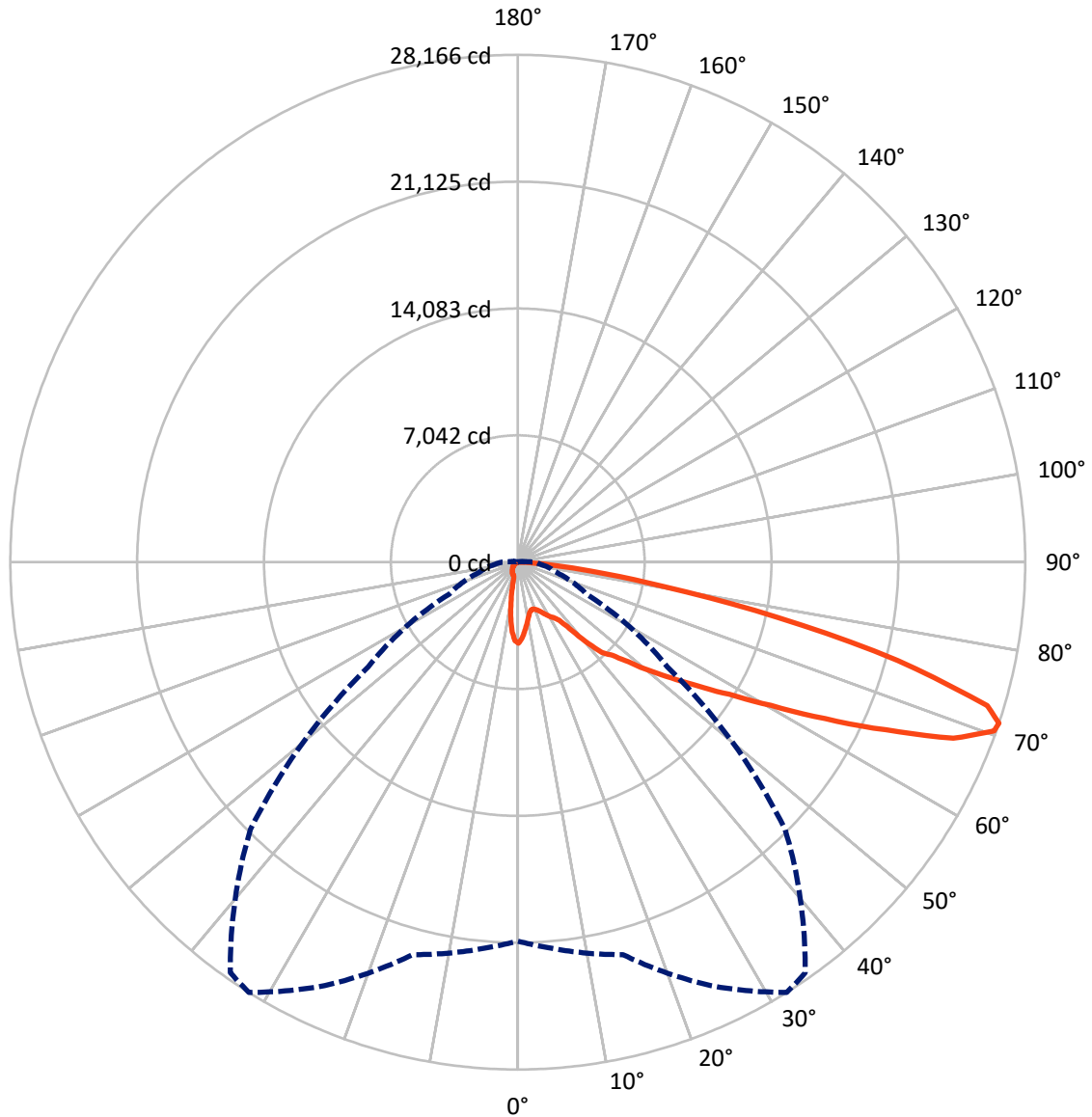
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2342.4	0.0	2342.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25622.6	0.0	25622.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	27965.0	0.0	27965.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.7	1.3
10°-20°	793.7	2.8
20°-30°	1234.7	4.4
30°-40°	2057.0	7.4
40°-50°	3826.3	13.7
50°-60°	6143.3	22.0
60°-70°	8263.0	29.5
70°-80°	4902.5	17.5
80°-90°	378.9	1.4
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°	27965.0	100.0
0°-180°	27965.0	100.0

**Coefficient of Utilization**



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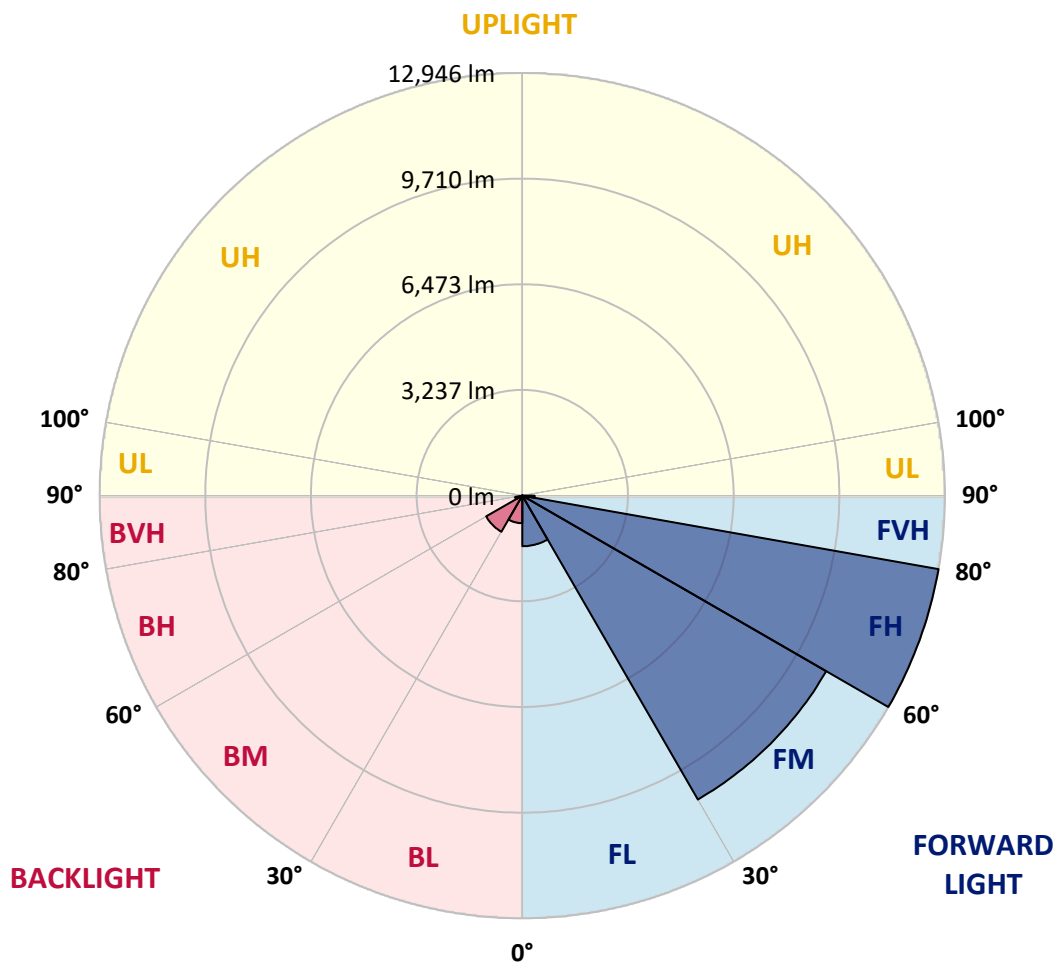
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.0	5.5			
FM	(30°-60°)	10748.7	38.4			
FH	(60°-80°)	12946.4	46.3			G5
FVH	(80°-90°)	377.5	1.3			G3/500
BL	(0°-30°)	844.0	3.0	B2/1000		
BM	(30°-60°)	1277.8	4.6	B2/2500		
BH	(60°-80°)	219.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2
2.5°	4170.9	4213.9	4207.4	4222.4	4258.9	4274.0	4314.7	4359.8	4422.1	4465.0	4492.9
5°	3735.2	3767.4	3771.6	3846.8	3883.3	3924.1	4044.3	4175.2	4321.2	4437.1	4514.4
7.5°	3269.3	3286.5	3320.9	3419.6	3511.9	3552.7	3735.2	3962.7	4192.4	4409.2	4548.7
10°	2885.1	2904.4	2966.7	3071.8	3157.7	3211.4	3464.7	3750.2	4072.2	4394.2	4598.1
12.5°	2666.1	2676.9	2700.5	2794.9	2904.4	2962.4	3235.0	3561.3	3975.6	4400.6	4681.8
15°	2651.1	2646.8	2618.9	2657.5	2756.3	2816.4	3082.6	3432.5	3889.7	4422.1	4780.6
17.5°	2730.5	2719.8	2653.2	2653.2	2734.8	2784.2	3018.2	3363.8	3846.8	4471.4	4920.1
20°	2852.9	2835.7	2726.2	2717.6	2797.1	2848.6	3056.8	3368.1	3855.4	4563.8	5106.9
22.5°	3007.4	2988.1	2822.8	2827.1	2913.0	2964.5	3168.4	3445.4	3909.0	4677.5	5306.5
25°	3209.2	3187.8	2992.4	2983.8	3074.0	3119.1	3333.7	3582.7	3984.2	4819.2	5568.4
27.5°	3477.6	3432.5	3198.5	3185.6	3282.2	3340.2	3533.4	3767.4	4117.3	5014.5	5920.4
30°	3698.7	3649.3	3426.0	3391.7	3494.7	3539.8	3739.4	4016.4	4379.1	5355.9	6407.7
32.5°	3988.5	3915.5	3653.6	3563.4	3672.9	3730.9	4037.8	4480.0	4767.7	5716.5	6987.3
35°	4641.0	4596.0	4276.1	3960.5	3954.1	4027.1	4477.9	4948.0	5167.0	6278.9	7777.3
37.5°	5574.8	5542.6	5203.5	4780.6	4658.2	4623.9	5012.4	5463.2	5804.5	7051.7	8696.0
40°	6658.9	6583.7	6272.5	5914.0	5755.1	5654.2	5643.5	6229.5	6637.4	8101.4	9653.4
42.5°	7436.0	7298.6	6920.8	6895.0	6860.7	6755.5	6450.7	7350.1	7712.9	9230.5	10677.4
45°	8251.7	8043.5	7481.0	7384.4	7371.6	7365.1	7669.9	8676.7	8884.9	10454.1	11729.2
47.5°	8884.9	8719.6	8258.1	8215.2	8268.9	8414.8	9282.1	10084.9	10042.0	11544.6	12611.5
50°	9728.6	9604.1	9091.0	9172.6	9449.5	9687.8	11100.3	11619.8	10992.9	12403.3	13253.3
52.5°	10724.6	10494.9	10018.4	10239.5	10664.5	11061.6	13030.1	12963.6	11660.5	13049.4	13732.1
55°	11587.6	11424.4	11261.3	11491.0	12126.4	12622.2	14773.2	13970.3	12145.7	13568.9	13942.4
57.5°	13047.3	13008.6	12841.2	13075.2	13845.8	14361.0	16333.8	14751.7	12456.9	13839.4	13695.6
60°	15206.8	15144.5	14833.3	15131.7	16136.3	16945.6	17772.0	15453.7	12527.8	13734.2	12985.0
62.5°	17804.2	17591.7	17325.5	17765.6	19143.7	19500.1	19126.6	15870.1	12263.7	12897.0	11272.0
65°	20229.9	20011.0	20017.4	20944.8	22445.3	22687.8	20706.5	15807.8	11491.0	10799.7	8313.9
67.5°	22086.8	22050.3	22312.2	24121.8	26083.8	25916.4	22119.0	14876.2	9200.5	7000.2	4417.8
70°	22181.2	22252.1	23003.4	26058.1	28050.1	27783.9	21998.8	12092.0	5735.8	3220.0	1740.9
71°	21039.2	21515.8	22554.7	25997.9	28166.1	27820.4	20985.5	10127.8	4207.4	2245.4	1255.8
72.5°	17928.7	18179.9	20425.3	24467.4	27249.4	26511.0	18416.0	7098.9	2694.0	1373.8	721.3
75°	9874.5	10492.8	13678.4	19195.2	21794.8	21146.5	12001.9	3372.4	1343.8	751.3	298.4
77.5°	4701.1	4580.9	6673.9	11415.8	14777.5	14743.1	6047.1	1498.4	783.5	508.8	150.3
80°	1343.8	1511.2	2554.5	5426.7	8204.5	8294.6	2322.7	723.4	543.1	397.1	77.3
82.5°	405.7	414.3	938.1	2399.9	4080.8	3846.8	871.5	369.2	390.7	315.6	45.1
85°	70.8	88.0	276.9	845.8	1556.3	1180.7	219.0	176.0	257.6	208.2	25.8
87.5°	4.3	6.4	92.3	96.6	137.4	79.4	38.6	25.8	55.8	55.8	15.0
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°	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2
2.5°	4512.2	4525.1	4516.5	4497.2	4465.0	4426.4	4374.9	4331.9	4295.4	4276.1	4299.7
5°	4540.1	4557.3	4514.4	4417.8	4271.8	4113.0	3932.6	3793.1	3683.6	3649.3	3636.4
7.5°	4583.1	4593.8	4477.9	4263.2	3954.1	3578.4	3250.0	2973.1	2758.4	2694.0	2599.6
10°	4638.9	4632.4	4413.5	4014.2	3471.1	2906.5	2397.8	2020.0	1734.5	1631.4	1622.9
12.5°	4724.8	4690.4	4331.9	3675.0	2895.8	2157.4	1528.4	1195.7	1015.4	955.3	942.4
15°	4832.1	4750.5	4203.1	3277.9	2217.5	1393.2	942.4	841.5	817.9	813.6	809.3
17.5°	4958.7	4829.9	4033.5	2790.6	1558.5	903.7	787.8	785.7	787.8	783.5	781.4
20°	5130.5	4913.7	3831.8	2213.2	1030.4	762.1	751.3	751.3	753.5	751.3	751.3
22.5°	5312.9	5012.4	3582.7	1689.4	777.1	723.4	721.3	725.6	729.9	727.7	727.7
25°	5538.3	5141.2	3254.3	1157.0	695.5	691.2	693.4	702.0	710.5	712.7	710.5
27.5°	5864.6	5300.1	2902.3	796.4	637.6	641.8	663.3	684.8	697.7	699.8	699.8
30°	6231.7	5476.1	2442.9	646.1	590.3	590.3	616.1	656.9	684.8	689.1	691.2
32.5°	6704.0	5680.0	1934.1	581.7	545.2	541.0	564.6	613.9	665.5	680.5	680.5
35°	7287.8	5920.4	1438.2	541.0	513.0	502.3	515.2	556.0	622.5	665.5	669.8
37.5°	7972.6	6148.0	1051.9	504.5	483.0	468.0	476.6	508.8	562.4	626.8	644.0
40°	8605.9	6349.8	785.7	474.4	452.9	442.2	448.6	463.7	508.8	568.9	579.6
42.5°	9297.1	6506.5	624.7	442.2	422.9	418.6	418.6	425.0	455.1	489.4	491.6
45°	9986.2	6562.3	523.8	403.6	390.7	395.0	392.8	388.5	401.4	397.1	397.1
47.5°	10477.7	6495.7	433.6	367.1	367.1	373.5	362.8	347.8	341.3	315.6	317.7
50°	10814.8	6253.2	356.3	324.1	341.3	349.9	328.4	304.8	281.2	253.3	246.9
52.5°	10954.3	5821.7	291.9	268.3	302.7	313.4	287.6	259.7	223.3	199.6	193.2
55°	10864.1	5289.3	242.6	219.0	255.5	268.3	242.6	210.4	169.6	143.8	139.5
57.5°	10467.0	4653.9	206.1	173.9	203.9	212.5	195.3	161.0	120.2	94.5	94.5
60°	9780.1	3997.0	167.4	137.4	152.4	165.3	148.1	115.9	81.6	58.0	53.7
62.5°	8386.9	3245.7	135.2	107.3	107.3	118.1	103.0	83.7	51.5	30.1	27.9
65°	6055.7	2226.1	107.3	79.4	77.3	77.3	64.4	55.8	30.1	12.9	8.6
67.5°	3290.8	1255.8	85.9	60.1	53.7	51.5	40.8	32.2	12.9	2.1	0.0
70°	1294.4	483.0	66.5	40.8	34.3	32.2	21.5	15.0	8.6	0.0	0.0
71°	878.0	332.7	58.0	34.3	27.9	23.6	17.2	12.9	6.4	0.0	0.0
72.5°	502.3	206.1	45.1	25.8	21.5	17.2	12.9	8.6	6.4	0.0	0.0
75°	219.0	105.2	27.9	19.3	15.0	10.7	8.6	6.4	2.1	0.0	0.0
77.5°	111.6	58.0	19.3	15.0	8.6	6.4	4.3	2.1	0.0	0.0	0.0
80°	62.3	30.1	12.9	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0
82.5°	34.3	17.2	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.5	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	4.3	0.0	0.0	0.0	0.0	2.1	2.1	0.0	0.0	0.0
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)