

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: P533159

Luminaire Tested: **GALN-SA8C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34527 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

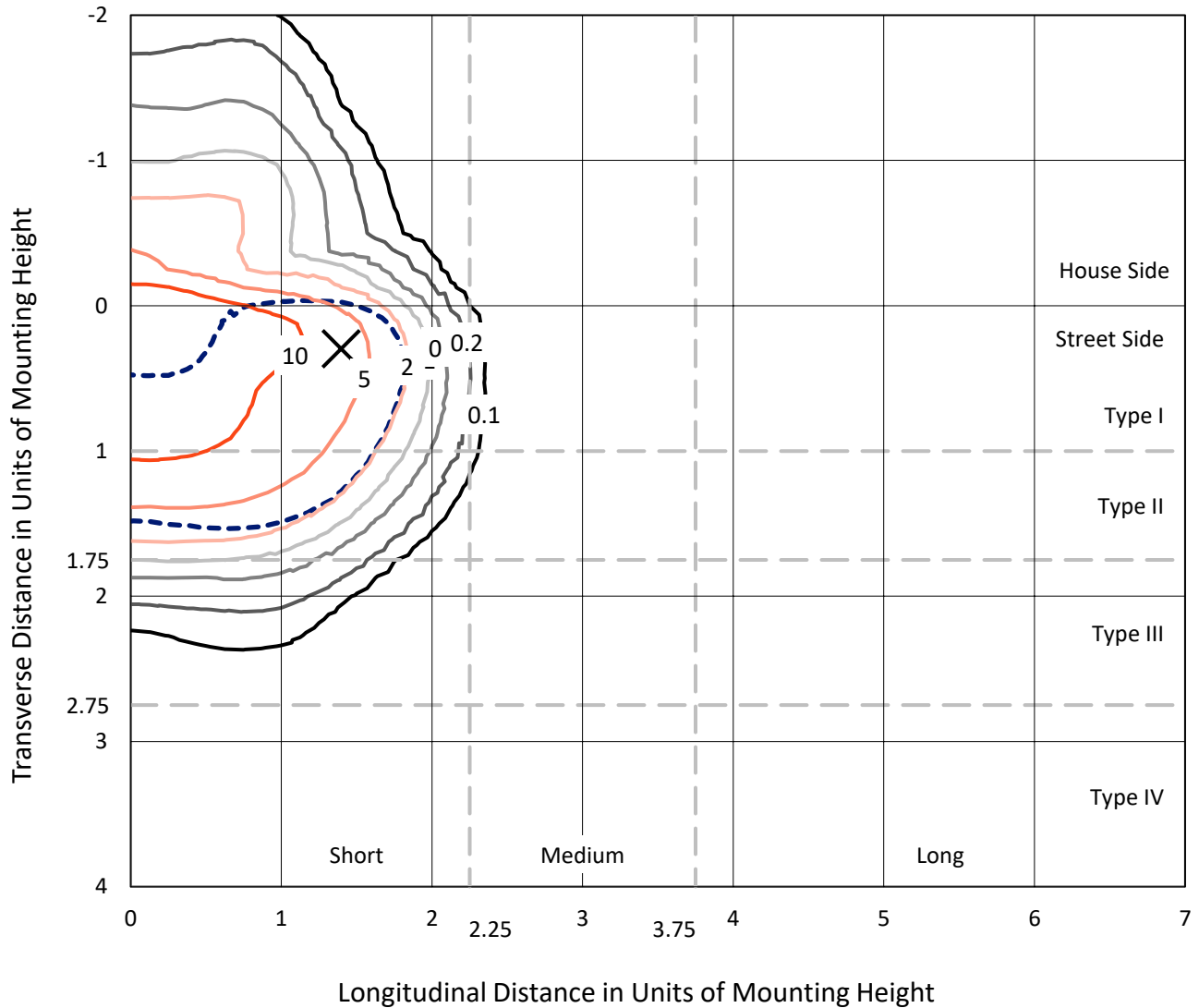
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

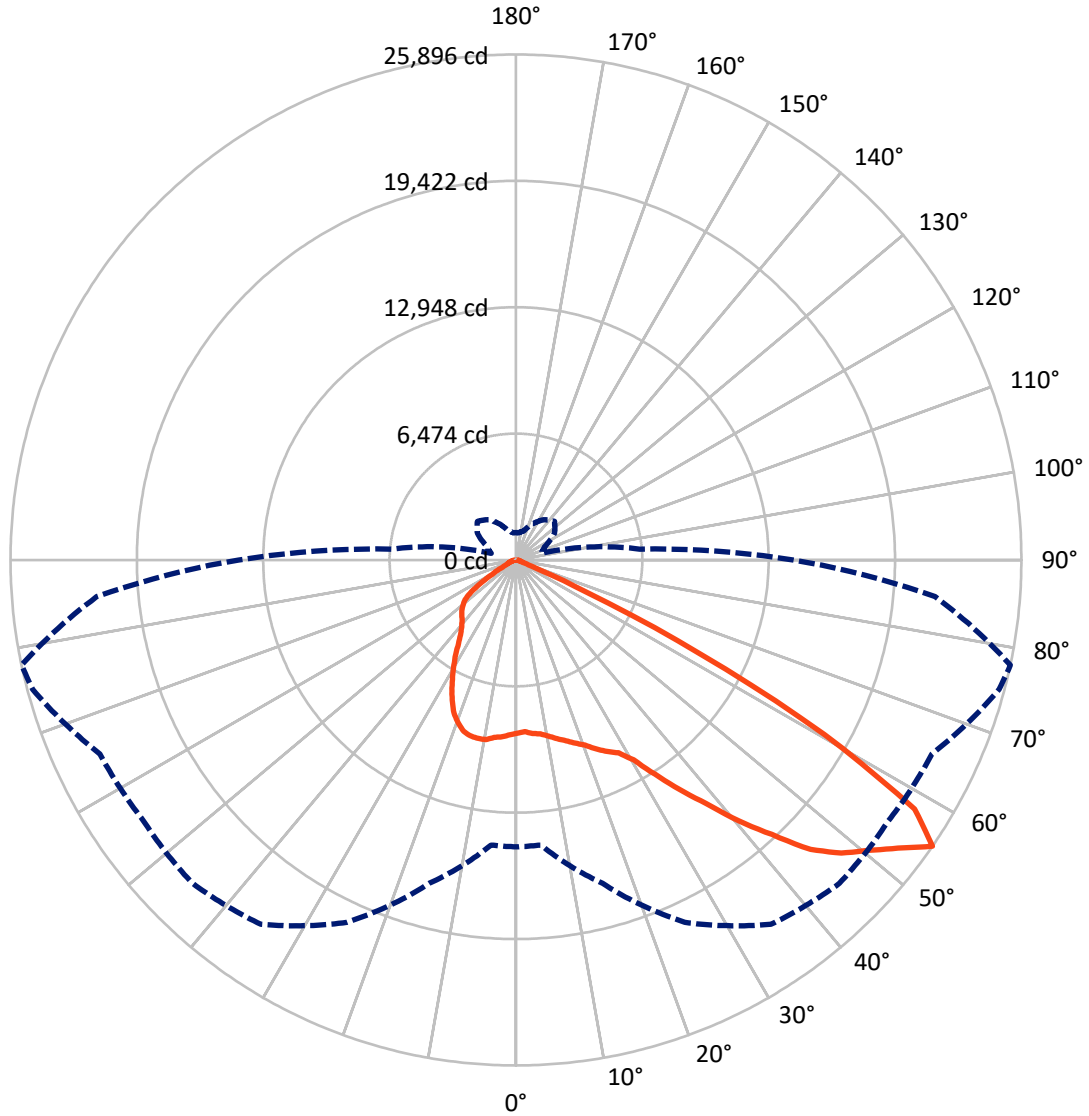
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6413.0	0.0	6413.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	28114.0	0.0	28114.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	34527.0	0.0	34527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.5	2.3
10°-20°	2094.8	6.1
20°-30°	3671.8	10.6
30°-40°	6054.4	17.5
40°-50°	8809.9	25.5
50°-60°	9982.6	28.9
60°-70°	2854.2	8.3
70°-80°	221.6	0.6
80°-90°	46.1	0.1
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°	34527.0	100.0
0°-180°	34527.0	100.0

**Coefficient of Utilization**



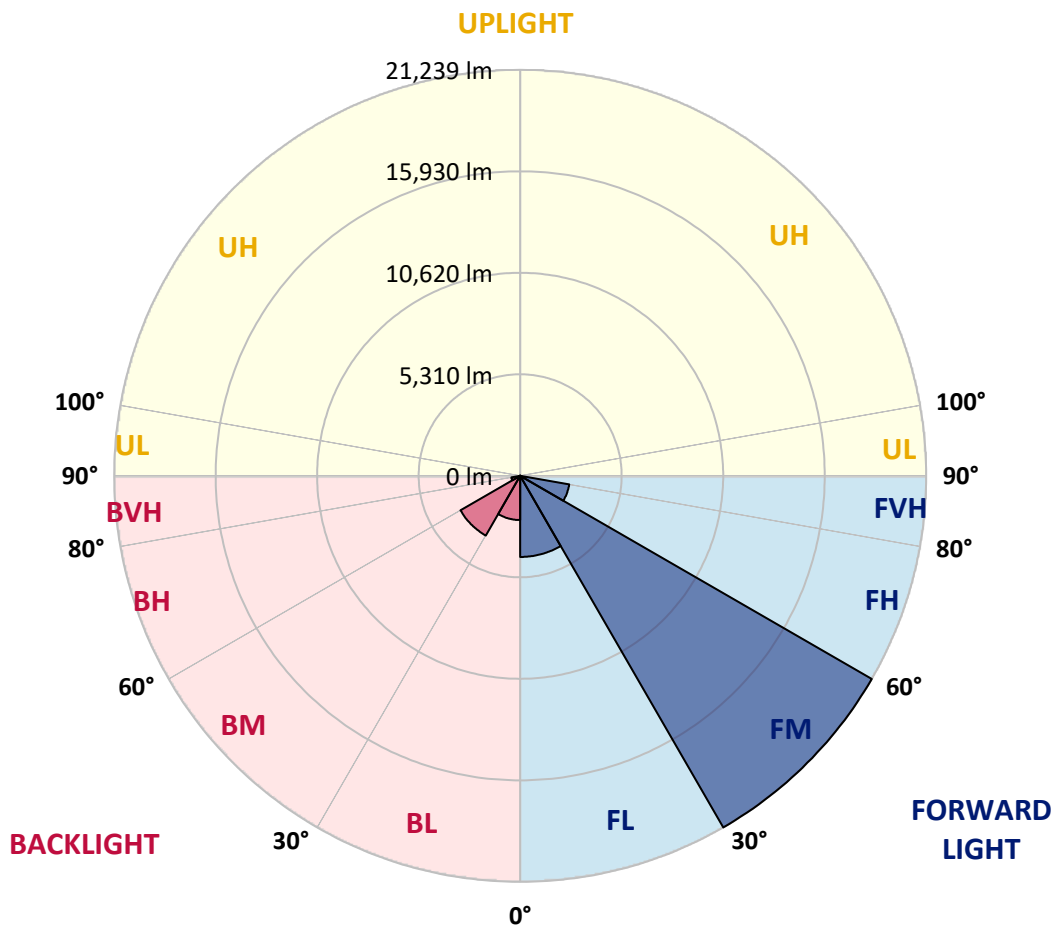
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4244.4	12.3			
FM (30°-60°)	21239.5	61.5			
FH (60°-80°)	2607.7	7.6			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	2313.8	6.7	B3/2500		
BM (30°-60°)	3607.4	10.4	B3/5000		
BH (60°-80°)	468.1	1.4	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9
2.5°	8346.0	8426.3	8438.6	8537.4	8531.2	8697.9	8747.3	8753.5	8864.6	8809.0	8951.0
5°	8111.4	8068.2	8049.7	8222.6	8271.9	8420.1	8543.6	8617.6	8846.0	8926.3	9074.5
7.5°	7901.6	7901.6	7913.9	8068.2	8049.7	8241.1	8370.7	8599.1	8932.5	9000.4	9179.4
10°	7697.9	7623.8	7716.4	7876.9	8012.7	8099.1	8370.7	8586.8	8975.7	9173.2	9420.1
12.5°	7592.9	7629.9	7642.3	7759.6	7907.7	8167.0	8315.2	8673.2	9284.3	9401.6	9667.1
15°	8253.4	8179.4	8000.3	7895.4	8018.9	8142.3	8512.7	8876.9	9444.8	9611.5	9907.8
17.5°	9018.9	8957.2	8809.0	8525.0	8247.3	8475.7	8765.8	9099.1	9617.7	9864.6	10302.9
20°	10018.9	9920.2	9772.0	9216.4	8975.7	8728.8	9037.4	9432.5	9901.6	10123.9	10574.5
22.5°	11210.3	11210.3	10877.0	10204.1	9704.1	9469.5	9599.2	9827.6	10216.5	10519.0	10963.4
25°	12451.1	12414.1	12111.6	11414.1	10568.3	10290.6	10438.7	10599.2	10704.1	10870.8	11167.1
27.5°	13870.9	13654.9	13272.2	12500.5	11753.6	11216.5	11377.0	11235.0	11105.4	11191.8	11617.8
30°	14833.9	14969.8	14482.1	13741.3	13037.6	12438.8	12469.7	12346.2	11753.6	11877.0	12130.1
32.5°	15834.0	15920.4	15648.8	15241.4	14537.6	13840.1	13587.0	13482.0	13037.6	13093.1	12846.2
35°	16667.4	16834.0	16593.3	16414.3	16210.5	15648.8	14951.2	15290.8	14574.7	14438.9	13796.9
37.5°	17432.8	17383.4	17667.4	17482.2	17439.0	17043.9	16278.5	16346.4	15864.9	15834.0	15093.2
40°	18118.0	18130.4	18519.3	18605.7	18432.9	17729.1	16618.0	17155.0	17543.9	17581.0	16630.3
42.5°	18686.0	18852.6	19186.0	19883.5	19624.3	18451.4	16969.8	17556.3	19000.8	19229.2	18087.2
45°	19179.8	19519.3	19932.9	20556.4	20408.3	19476.1	17846.4	18383.5	20556.4	21155.2	19457.6
47.5°	19210.7	19655.1	20105.8	21031.7	21216.9	20025.5	18753.9	19692.2	21791.0	22439.2	20457.6
50°	19087.2	19321.8	20223.1	21229.3	21649.0	20920.6	20025.5	20791.0	22988.6	23396.0	20963.8
52.5°	17624.2	17803.2	19611.9	21414.5	22426.9	21933.0	21710.8	22321.9	24210.9	24513.4	21439.2
55°	14692.0	14661.1	17148.9	20482.3	22784.9	23433.1	23297.3	23513.3	25624.5	25896.1	21556.5
57.5°	10049.8	10611.6	12759.8	17056.3	20593.4	23081.2	23223.2	22865.1	23976.3	24081.2	18790.9
60°	5420.0	5654.6	7383.0	11383.2	15679.7	18809.4	19179.8	18531.6	18445.2	18148.9	13414.1
62.5°	2154.4	2271.7	3253.2	5636.0	8543.6	11432.6	12228.9	11963.5	11395.5	10617.7	6944.7
65°	1024.7	1098.8	1617.4	2635.9	3790.3	4765.6	5562.0	5808.9	4284.1	3858.2	2290.2
67.5°	697.6	753.1	1179.1	1506.2	1351.9	1413.6	1839.6	1709.9	1006.2	858.1	635.8
70°	530.9	567.9	944.5	1024.7	605.0	425.9	475.3	444.5	413.6	419.8	413.6
72.5°	376.6	407.4	691.4	605.0	265.4	197.5	253.1	302.5	302.5	302.5	296.3
75°	228.4	259.3	401.3	234.6	104.9	104.9	160.5	203.7	216.1	222.2	209.9
77.5°	117.3	148.2	135.8	67.9	67.9	80.3	117.3	142.0	154.3	154.3	148.2
80°	24.7	24.7	24.7	37.0	67.9	86.4	117.3	129.6	148.2	148.2	135.8
82.5°	0.0	6.2	18.5	37.0	61.7	80.3	111.1	129.6	148.2	154.3	142.0
85°	0.0	6.2	12.3	24.7	43.2	49.4	43.2	37.0	37.0	37.0	37.0
87.5°	0.0	0.0	6.2	6.2	6.2	12.3	12.3	12.3	12.3	12.3	12.3
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°	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9	8876.9
2.5°	8963.3	8981.9	8951.0	8944.8	8920.1	8994.2	8815.2	8772.0	8883.1	8778.1	8802.8
5°	9080.6	9123.8	9068.3	8975.7	8839.9	8630.0	8451.0	8216.4	8105.3	8025.0	8012.7
7.5°	9167.0	9197.9	9142.4	8846.0	8438.6	7907.7	7512.7	7222.5	6994.1	6926.2	6815.1
10°	9518.9	9525.1	9247.3	8592.9	7796.6	7099.1	6494.1	6049.6	5821.2	5679.2	5617.5
12.5°	9753.5	9741.1	9179.4	8092.9	7031.2	6105.2	5413.8	4876.7	4666.9	4599.0	4555.7
15°	10049.8	9981.9	9018.9	7580.6	6043.5	5043.4	4419.9	4049.6	4031.0	3987.8	4031.0
17.5°	10284.4	10093.0	8784.3	6648.4	5099.0	4154.5	3747.1	3771.8	3821.1	3864.4	3870.5
20°	10667.1	10272.0	8247.3	5833.6	4222.4	3561.9	3555.7	3666.8	3790.3	3839.7	3889.1
22.5°	10957.2	10346.1	7673.2	4963.2	3506.3	3321.1	3426.1	3592.7	3685.3	3734.7	3808.8
25°	11062.2	10142.4	6907.7	4092.8	3160.6	3210.0	3370.5	3481.6	3598.9	3654.5	3623.6
27.5°	11167.1	10037.5	5994.1	3370.5	2975.4	3135.9	3271.7	3382.9	3419.9	3494.0	3543.4
30°	11420.2	9673.2	5173.1	2913.7	2882.8	3086.5	3185.3	3222.4	3321.1	3364.3	3364.3
32.5°	11623.9	9531.3	4302.6	2697.6	2870.5	3111.2	3123.6	3123.6	3135.9	3105.1	3092.7
35°	12043.7	9043.6	3524.8	2568.0	2864.3	3117.4	3148.3	3043.3	2759.4	2648.3	2617.4
37.5°	12562.3	8728.8	2950.7	2537.1	2907.5	3191.5	3240.9	2845.8	2475.4	2296.4	2265.5
40°	13191.9	8506.5	2574.2	2524.8	3006.3	3364.3	3216.2	2691.5	2210.0	1950.7	1938.4
42.5°	13926.5	8302.8	2321.1	2518.6	3129.8	3543.4	3191.5	2561.8	1938.4	1765.5	1790.2
45°	14512.9	8191.7	2148.2	2475.4	3173.0	3648.3	3210.0	2333.4	1827.2	1716.1	1728.5
47.5°	14969.8	7957.1	2006.3	2401.3	3166.8	3685.3	3043.3	2240.8	1771.7	1802.5	1833.4
50°	14982.1	7642.3	1827.2	2240.8	3074.2	3617.4	2852.0	2154.4	1759.3	1889.0	1950.7
52.5°	14815.4	7197.8	1635.9	2012.4	2858.1	3382.9	2679.1	2117.4	1703.8	1691.4	1765.5
55°	14222.8	6364.5	1314.9	1629.7	2413.7	2790.2	2524.8	2049.5	1537.1	1395.1	1407.5
57.5°	11494.3	4561.9	969.2	1166.7	1709.9	2043.3	2277.9	2018.6	1382.8	1185.2	1191.4
60°	7117.6	2586.5	709.9	796.3	1055.6	1240.8	1845.8	1876.6	1234.6	1000.0	987.7
62.5°	3654.5	1277.8	549.4	561.8	648.2	728.4	1265.5	1574.1	1117.3	950.7	950.7
65°	1222.3	629.7	481.5	432.1	432.1	450.6	765.5	1092.6	944.5	796.3	796.3
67.5°	524.7	469.2	419.8	376.6	345.7	327.2	432.1	635.8	703.7	605.0	580.3
70°	407.4	395.1	364.2	314.8	271.6	246.9	253.1	327.2	401.3	388.9	376.6
72.5°	302.5	302.5	290.1	246.9	209.9	179.0	166.7	172.8	191.4	197.5	203.7
75°	209.9	216.1	216.1	191.4	154.3	129.6	111.1	92.6	74.1	61.7	55.6
77.5°	142.0	148.2	160.5	142.0	117.3	86.4	67.9	49.4	30.9	12.3	12.3
80°	123.5	142.0	154.3	142.0	123.5	92.6	67.9	37.0	18.5	0.0	0.0
82.5°	129.6	142.0	160.5	135.8	117.3	86.4	67.9	43.2	18.5	6.2	0.0
85°	30.9	30.9	37.0	43.2	55.6	61.7	49.4	30.9	18.5	6.2	0.0
87.5°	12.3	12.3	12.3	12.3	12.3	6.2	6.2	6.2	6.2	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)