

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: P650989

Luminaire Tested: **GALN-SA6C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650989  
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-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 25246.8 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

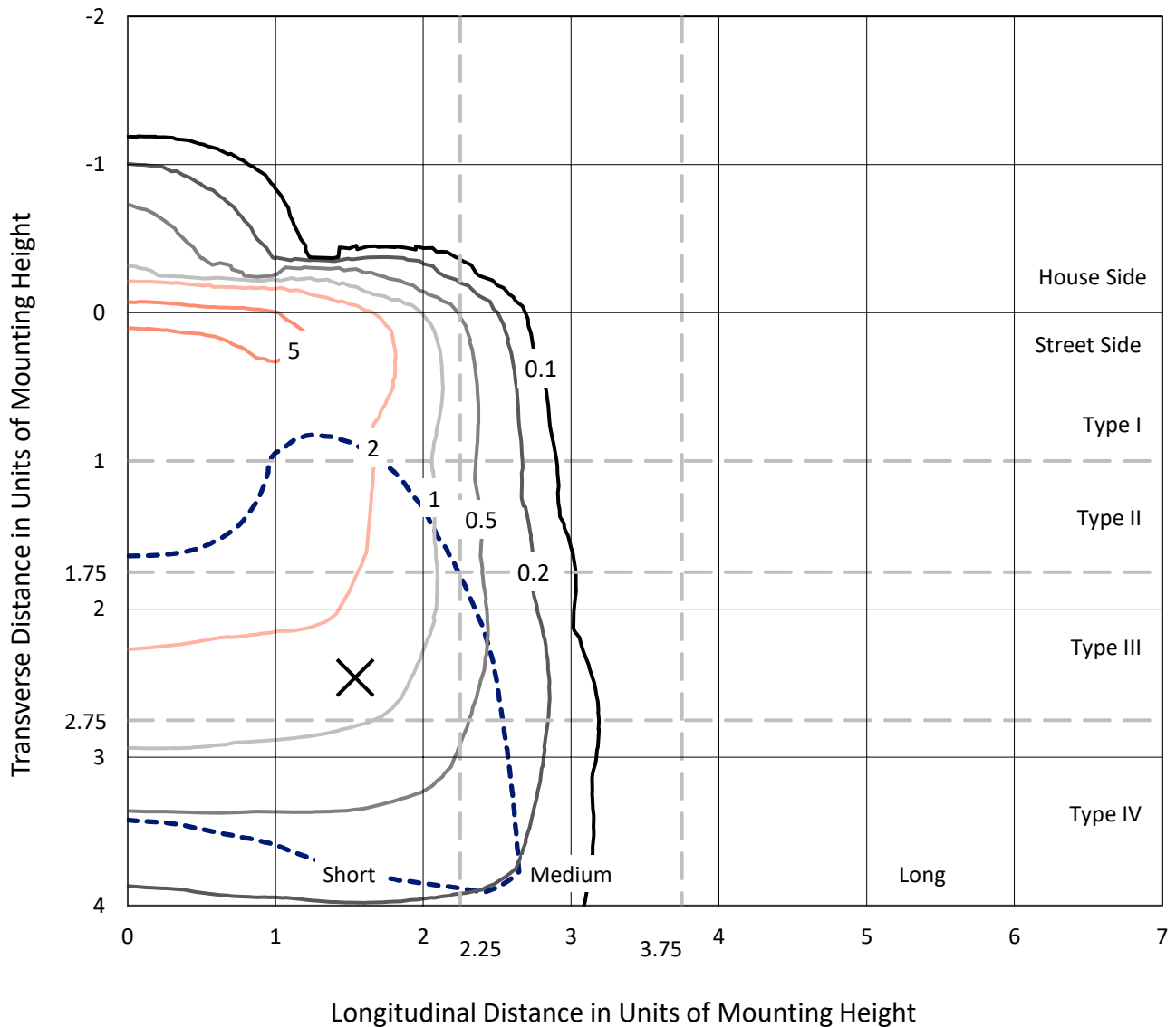
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

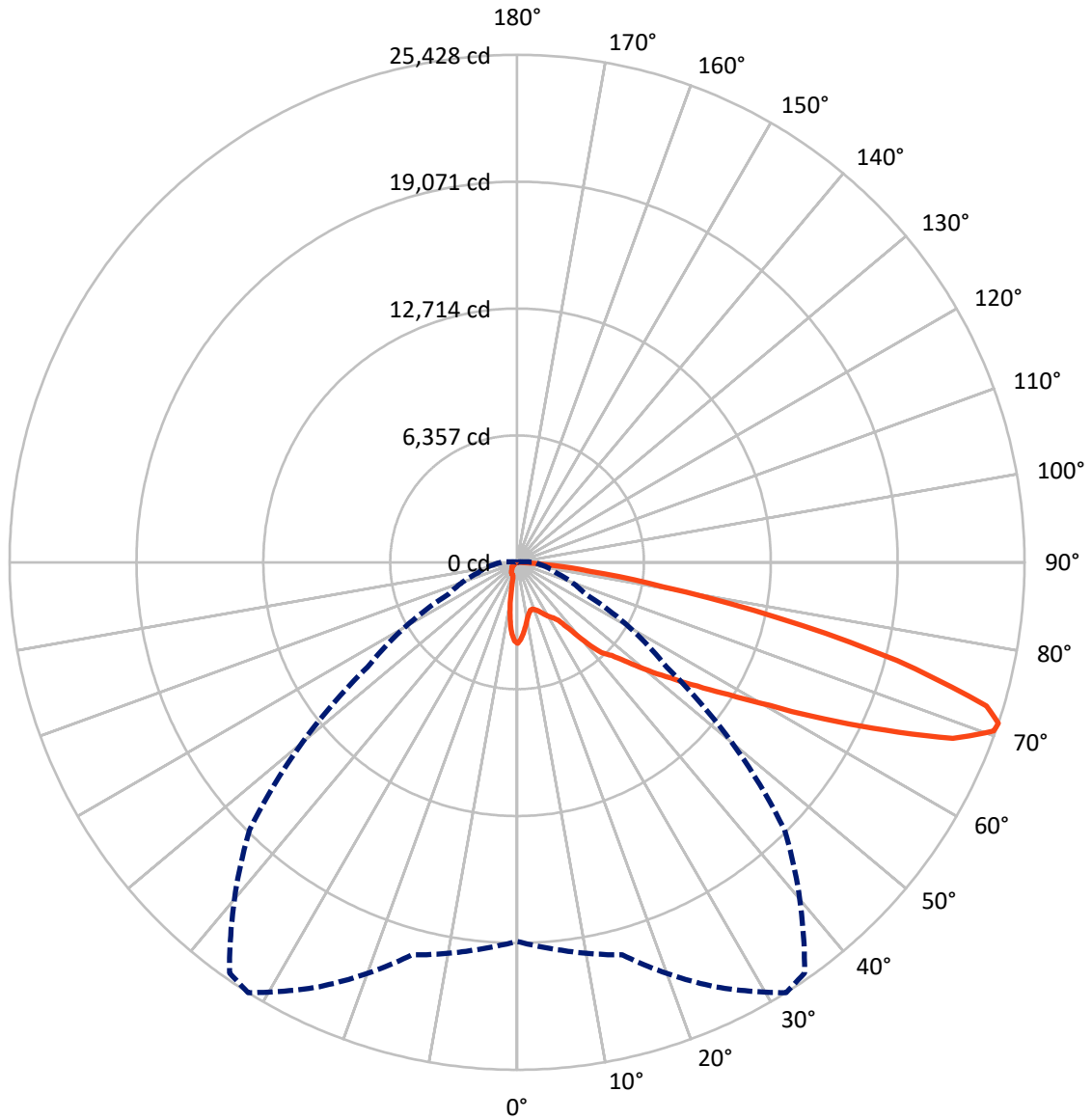
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2114.7	0.0	2114.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23132.1	0.0	23132.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25246.8	0.0	25246.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	1.3
10°-20°	716.5	2.8
20°-30°	1114.7	4.4
30°-40°	1857.0	7.4
40°-50°	3454.4	13.7
50°-60°	5546.1	22.0
60°-70°	7459.8	29.5
70°-80°	4426.0	17.5
80°-90°	342.1	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°	25246.8	100.0
0°-180°	25246.8	100.0



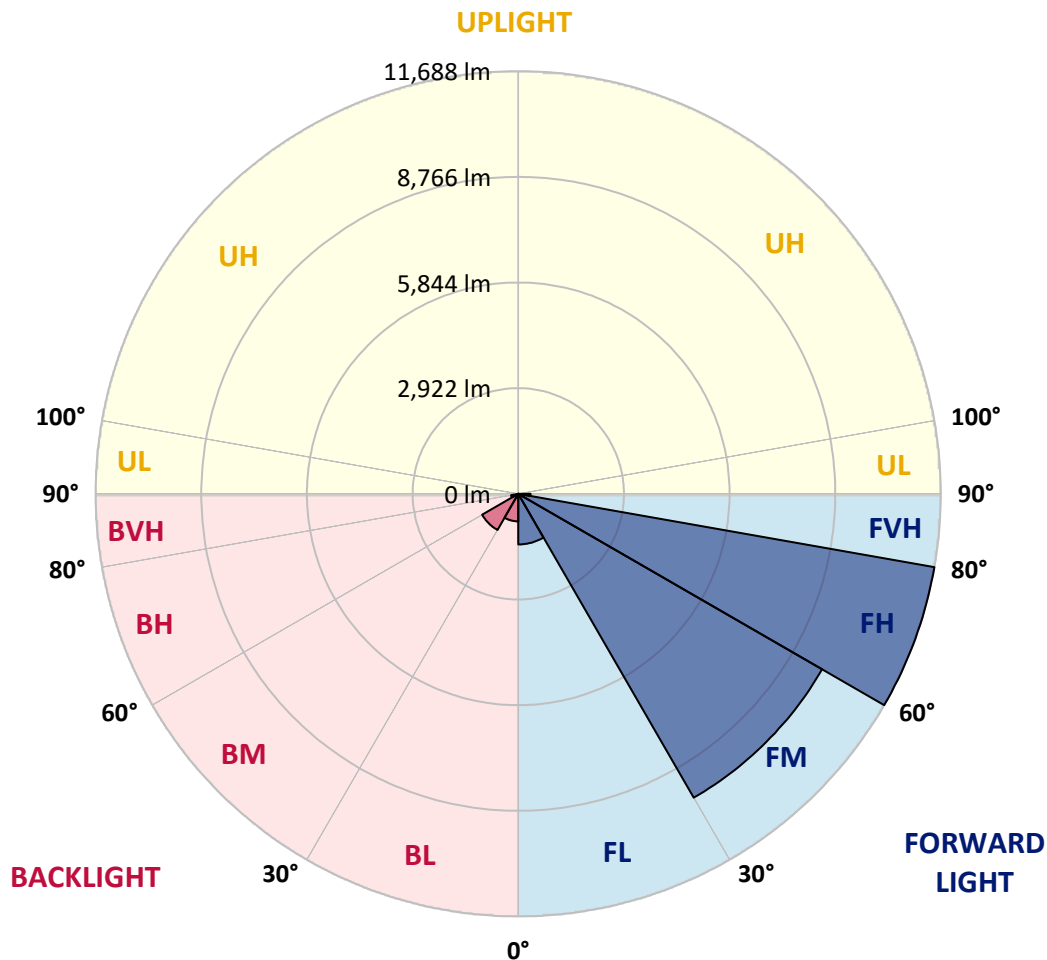
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.3	5.5			
FM (30°-60°)	9703.9	38.4			
FH (60°-80°)	11688.1	46.3			G4/12000
FVH (80°-90°)	340.8	1.3			G3/500
BL (0°-30°)	762.0	3.0	B2/1000		
BM (30°-60°)	1153.6	4.6	B2/2500		
BH (60°-80°)	197.8	0.8	B1/500		G1/500
BVH (80°-90°)	1.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1
2.5°	3765.5	3804.3	3798.5	3812.0	3845.0	3858.5	3895.3	3936.0	3992.2	4031.0	4056.2
5°	3372.1	3401.2	3405.0	3472.9	3505.8	3542.6	3651.2	3769.4	3901.1	4005.9	4075.6
7.5°	2951.6	2967.0	2998.1	3087.2	3170.6	3207.4	3372.1	3577.5	3784.9	3980.6	4106.6
10°	2604.7	2622.1	2678.3	2773.3	2850.7	2899.3	3127.9	3385.7	3676.3	3967.1	4151.2
12.5°	2406.9	2416.7	2438.0	2523.3	2622.1	2674.5	2920.5	3215.1	3589.1	3972.9	4226.8
15°	2393.4	2389.5	2364.3	2399.2	2488.4	2542.7	2783.0	3098.8	3511.6	3992.2	4315.9
17.5°	2465.1	2455.5	2395.3	2395.3	2469.0	2513.6	2724.8	3036.9	3472.9	4036.8	4441.8
20°	2575.6	2560.1	2461.3	2453.5	2525.2	2571.7	2759.7	3040.7	3480.6	4120.1	4610.4
22.5°	2715.1	2697.7	2548.5	2552.4	2629.8	2676.4	2860.5	3110.4	3529.1	4222.9	4790.7
25°	2897.3	2877.9	2701.5	2693.8	2775.2	2815.9	3009.7	3234.5	3596.9	4350.7	5027.2
27.5°	3139.5	3098.8	2887.6	2876.0	2963.2	3015.5	3189.9	3401.2	3717.1	4527.1	5345.0
30°	3339.2	3294.6	3093.0	3062.0	3155.0	3195.7	3375.9	3626.0	3953.5	4835.2	5784.9
32.5°	3600.7	3534.9	3298.5	3217.1	3315.9	3368.2	3645.3	4044.5	4304.2	5160.9	6308.2
35°	4189.9	4149.2	3860.4	3575.6	3569.8	3635.6	4042.6	4467.1	4664.8	5668.6	7021.3
37.5°	5033.0	5003.9	4697.7	4315.9	4205.4	4174.4	4525.2	4932.2	5240.4	6366.3	7850.8
40°	6011.6	5943.8	5662.8	5339.2	5195.8	5104.6	5094.9	5624.0	5992.3	7313.9	8715.1
42.5°	6713.2	6589.2	6248.0	6224.8	6193.8	6098.8	5823.7	6635.7	6963.2	8333.4	9639.5
45°	7449.7	7261.6	6753.9	6666.7	6655.1	6649.2	6924.5	7833.3	8021.3	9438.0	10589.2
47.5°	8021.3	7872.1	7455.5	7416.7	7465.1	7596.9	8379.9	9104.7	9065.9	10422.5	11385.7
50°	8783.0	8670.5	8207.4	8281.0	8531.0	8746.1	10021.4	10490.3	9924.5	11197.7	11965.2
52.5°	9682.2	9474.8	9044.6	9244.2	9627.9	9986.5	11763.6	11703.5	10527.1	11781.1	12397.3
55°	10461.3	10313.9	10166.7	10374.1	10947.7	11395.4	13337.3	12612.4	10965.1	12250.0	12587.2
57.5°	11779.0	11744.2	11593.0	11804.3	12500.0	12965.1	14746.2	13317.8	11246.1	12494.2	12364.4
60°	13728.7	13672.5	13391.5	13660.9	14567.9	15298.5	16044.6	13951.6	11310.1	12399.3	11722.9
62.5°	16073.7	15881.8	15641.5	16038.8	17283.0	17604.7	17267.5	14327.5	11071.7	11643.4	10176.4
65°	18263.6	18065.9	18071.7	18909.0	20263.6	20482.6	18693.8	14271.3	10374.1	9750.0	7505.8
67.5°	19939.9	19907.0	20143.5	21777.2	23548.5	23397.3	19969.0	13430.3	8306.2	6319.8	3988.4
70°	20025.2	20089.1	20767.5	23525.2	25323.7	25083.3	19860.5	10916.7	5178.3	2907.0	1571.7
71°	18994.2	19424.4	20362.5	23471.0	25428.3	25116.3	18945.8	9143.4	3798.5	2027.1	1133.8
72.5°	16186.1	16412.8	18439.9	22089.2	24600.8	23934.1	16626.0	6408.9	2432.2	1240.3	651.2
75°	8914.8	9472.9	12348.8	17329.5	19676.4	19091.1	10835.3	3044.6	1213.1	678.3	269.4
77.5°	4244.2	4135.7	6025.2	10306.2	13341.1	13310.1	5459.4	1352.7	707.4	459.3	135.7
80°	1213.1	1364.4	2306.2	4899.2	7407.0	7488.3	2096.9	653.1	490.3	358.5	69.8
82.5°	366.3	374.0	846.9	2166.7	3684.1	3472.9	786.8	333.4	352.7	284.8	40.7
85°	63.9	79.5	250.0	763.5	1405.1	1065.9	197.6	158.9	232.5	188.0	23.3
87.5°	3.9	5.8	83.3	87.2	124.0	71.7	34.9	23.3	50.4	50.4	13.5
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°	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1	4060.1
2.5°	4073.6	4085.2	4077.5	4060.1	4031.0	3996.1	3949.6	3910.8	3877.9	3860.4	3881.8
5°	4098.9	4114.3	4075.6	3988.4	3856.6	3713.2	3550.4	3424.4	3325.6	3294.6	3282.9
7.5°	4137.6	4147.3	4042.6	3848.8	3569.8	3230.6	2934.1	2684.1	2490.3	2432.2	2346.9
10°	4188.0	4182.2	3984.5	3624.0	3133.7	2624.0	2164.7	1823.6	1565.9	1472.8	1465.1
12.5°	4265.5	4234.5	3910.8	3317.8	2614.3	1947.7	1379.8	1079.4	916.7	862.4	850.8
15°	4362.4	4288.8	3794.6	2959.3	2001.9	1257.7	850.8	759.7	738.4	734.5	730.7
17.5°	4476.7	4360.5	3641.4	2519.4	1407.0	815.9	711.2	709.3	711.2	707.4	705.4
20°	4631.8	4436.0	3459.3	1998.0	930.2	688.0	678.3	678.3	680.2	678.3	678.3
22.5°	4796.6	4525.2	3234.5	1525.2	701.6	653.1	651.2	655.1	658.9	657.0	657.0
25°	5000.0	4641.5	2937.9	1044.6	627.9	624.0	626.0	633.7	641.5	643.4	641.5
27.5°	5294.6	4784.9	2620.1	719.0	575.6	579.4	598.9	618.2	629.8	631.8	631.8
30°	5626.0	4943.8	2205.4	583.3	532.9	532.9	556.2	593.0	618.2	622.1	624.0
32.5°	6052.3	5127.9	1746.2	525.2	492.2	488.4	509.7	554.3	600.8	614.4	614.4
35°	6579.5	5345.0	1298.4	488.4	463.1	453.5	465.2	501.9	562.0	600.8	604.7
37.5°	7197.7	5550.4	949.6	455.4	436.1	422.5	430.3	459.3	507.7	565.9	581.4
40°	7769.4	5732.6	709.3	428.3	408.9	399.2	405.0	418.6	459.3	513.6	523.3
42.5°	8393.4	5874.0	564.0	399.2	381.8	377.9	377.9	383.7	410.8	441.9	443.8
45°	9015.5	5924.4	472.9	364.3	352.7	356.6	354.6	350.8	362.4	358.5	358.5
47.5°	9459.3	5864.4	391.5	331.4	331.4	337.2	327.5	313.9	308.1	284.8	286.8
50°	9763.6	5645.4	321.7	292.7	308.1	315.9	296.5	275.2	253.9	228.7	222.9
52.5°	9889.6	5255.8	263.6	242.2	273.2	282.9	259.7	234.5	201.6	180.2	174.4
55°	9808.2	4775.2	219.0	197.6	230.6	242.2	219.0	189.9	153.1	129.9	126.0
57.5°	9449.6	4201.6	186.0	157.0	184.1	191.8	176.4	145.3	108.5	85.3	85.3
60°	8829.5	3608.6	151.1	124.0	137.6	149.2	133.7	104.6	73.7	52.3	48.4
62.5°	7571.7	2930.2	122.1	96.9	96.9	106.6	93.0	75.6	46.5	27.2	25.2
65°	5467.1	2009.7	96.9	71.7	69.8	69.8	58.1	50.4	27.2	11.6	7.7
67.5°	2970.9	1133.8	77.5	54.2	48.4	46.5	36.8	29.1	11.6	1.9	0.0
70°	1168.6	436.1	60.0	36.8	31.0	29.1	19.3	13.5	7.7	0.0	0.0
71°	792.6	300.4	52.3	31.0	25.2	21.3	15.5	11.6	5.8	0.0	0.0
72.5°	453.5	186.0	40.7	23.3	19.3	15.5	11.6	7.7	5.8	0.0	0.0
75°	197.6	94.9	25.2	17.4	13.5	9.7	7.7	5.8	1.9	0.0	0.0
77.5°	100.8	52.3	17.4	13.5	7.7	5.8	3.9	1.9	0.0	0.0	0.0
80°	56.2	27.2	11.6	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	31.0	15.5	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	0.0	0.0	0.0	0.0	1.9	1.9	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)