

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: P455340

Luminaire Tested: **GALN-SA6C-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28383 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

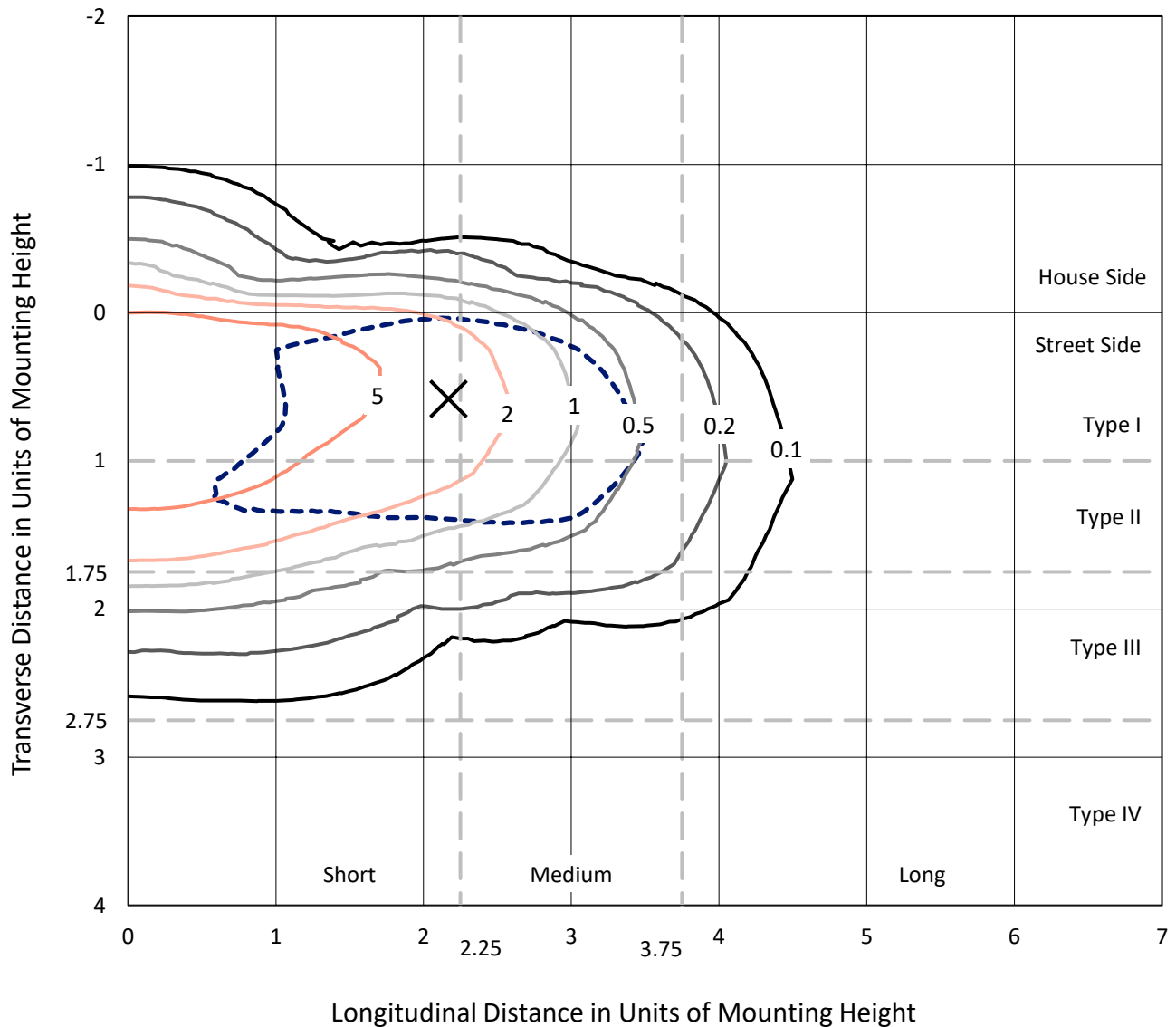
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455340  
 CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

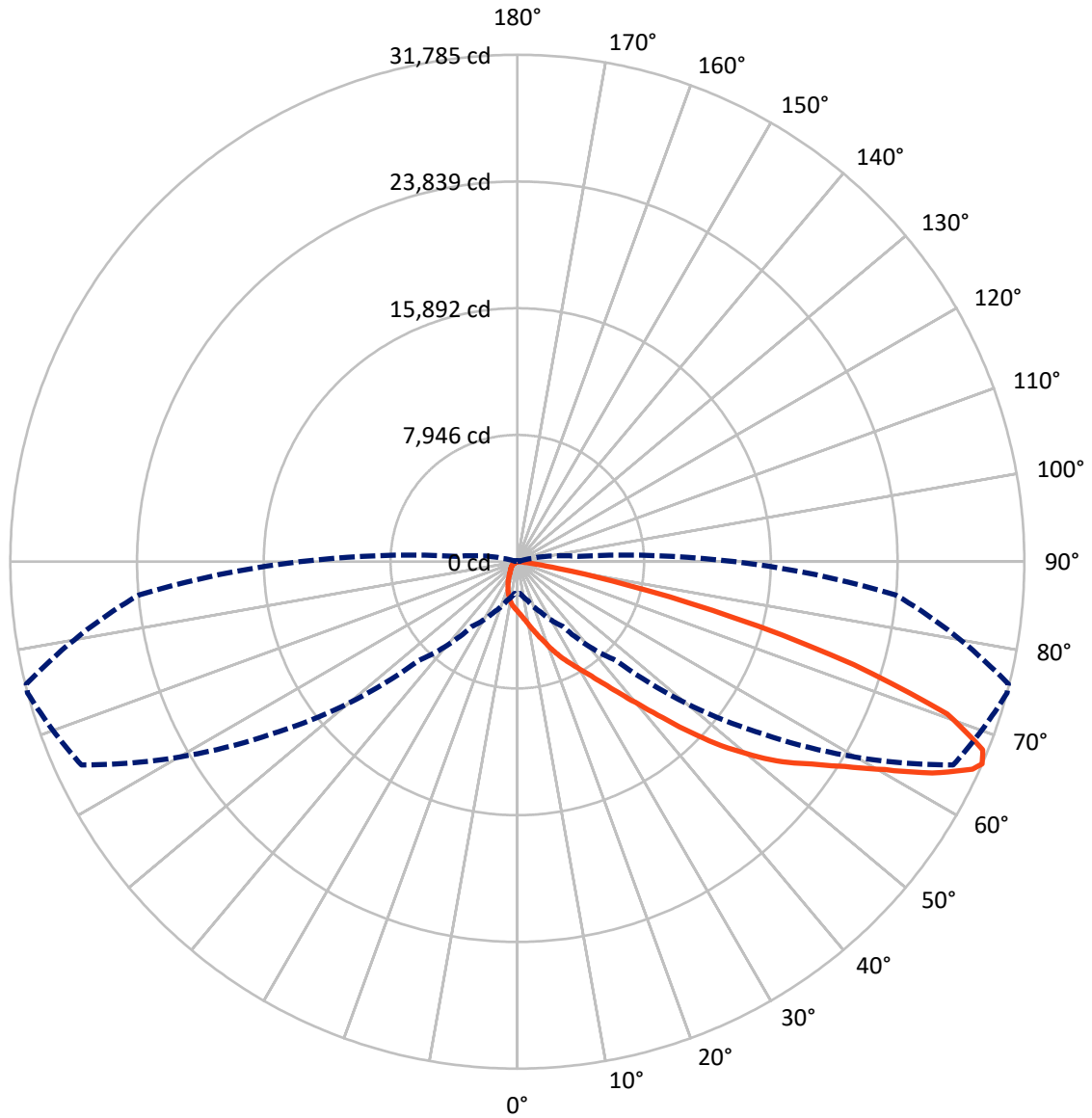
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P455340  
CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P455340

CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1752.3	0.0	1752.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	26630.8	0.0	26630.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	28383.0	0.0	28383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.4	1.1
10°-20°	881.1	3.1
20°-30°	1521.5	5.4
30°-40°	2744.4	9.7
40°-50°	4957.8	17.5
50°-60°	7729.3	27.2
60°-70°	7342.5	25.9
70°-80°	2751.8	9.7
80°-90°	155.3	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°	28383.0	100.0
0°-180°	28383.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455340

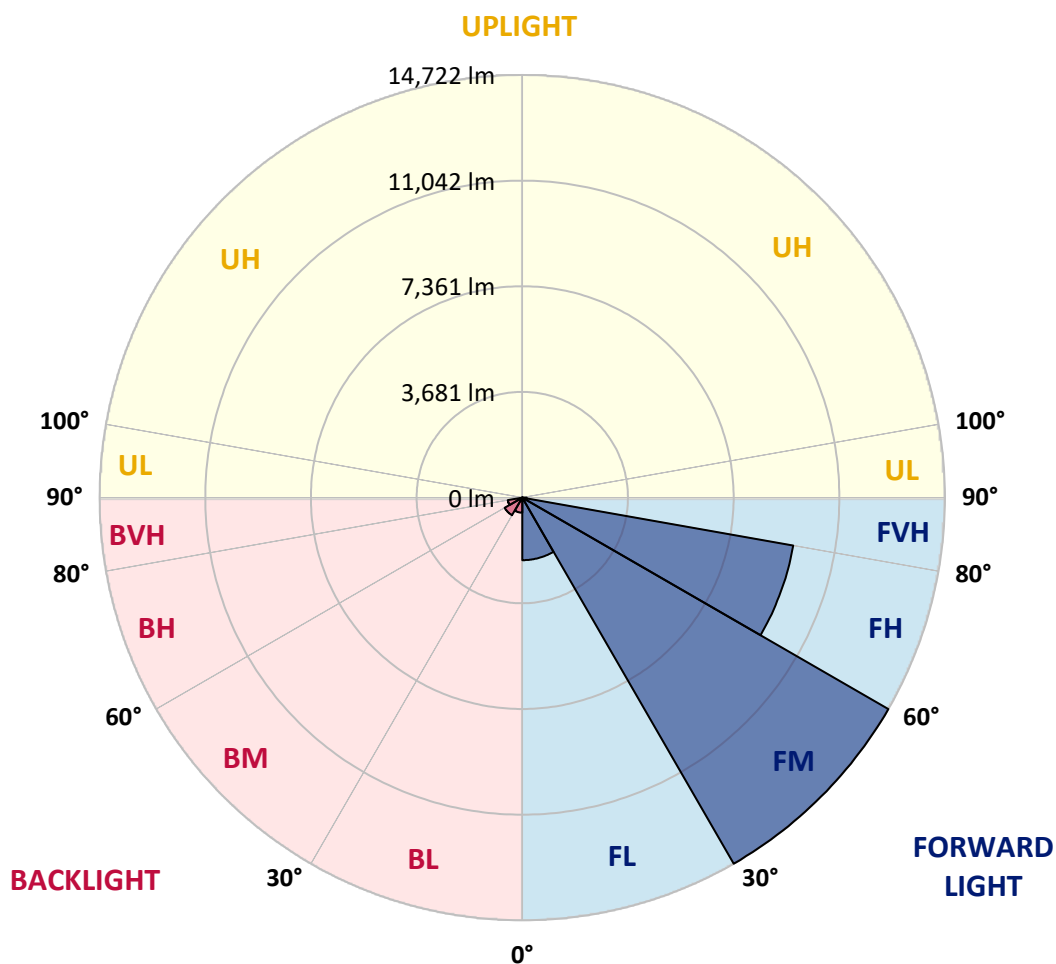
CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.6	7.7			
FM (30°-60°)	14722.3	51.9			
FH (60°-80°)	9582.6	33.8			G4/12000
FVH (80°-90°)	147.2	0.5			G2/225
BL (0°-30°)	523.3	1.8	B2/1000		
BM (30°-60°)	709.3	2.5	B1/1000		
BH (60°-80°)	511.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.0	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 II Short





REPORT NUMBER: P455340

CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0
2.5°	3708.4	3662.2	3676.9	3655.9	3607.6	3536.3	3473.3	3383.1	3292.8	3278.2	3177.4
5°	4197.4	4184.8	4168.0	4107.1	4073.6	3964.4	3834.3	3679.0	3492.2	3458.6	3276.1
7.5°	4531.1	4524.8	4533.2	4501.7	4472.3	4373.7	4235.2	4023.2	3733.6	3714.7	3410.4
10°	4640.2	4657.0	4688.5	4738.8	4785.0	4753.5	4648.6	4384.2	4046.3	3991.7	3563.6
12.5°	4577.2	4596.1	4671.7	4806.0	4955.0	5041.1	4999.1	4806.0	4377.9	4333.8	3735.7
15°	4415.6	4438.7	4545.8	4753.5	5020.1	5263.5	5368.4	5229.9	4764.0	4692.7	3943.4
17.5°	4176.4	4210.0	4363.2	4638.1	5003.3	5423.0	5718.9	5672.8	5175.4	5108.2	4170.1
20°	3995.9	4021.1	4151.2	4466.0	4931.9	5511.2	6052.6	6182.7	5683.3	5567.8	4436.6
22.5°	4115.5	4123.9	4168.0	4356.9	4803.9	5534.2	6346.4	6713.7	6222.6	6119.8	4713.7
25°	4701.1	4617.1	4573.0	4531.1	4776.6	5513.3	6613.0	7267.8	6759.9	6650.7	4988.6
27.5°	5624.5	5586.7	5364.3	5066.2	5009.6	5540.5	6789.3	7792.4	7265.7	7148.1	5257.2
30°	6629.8	6564.7	6428.3	5991.8	5553.1	5733.6	6917.3	8302.4	7863.8	7708.5	5502.8
32.5°	7553.2	7595.2	7391.6	6942.5	6434.6	6145.0	7083.1	8858.6	8550.1	8357.0	5788.2
35°	8629.8	8713.8	8401.1	7970.8	7376.9	6887.9	7406.3	9486.1	9421.0	9177.6	6228.9
37.5°	9723.2	9773.6	9582.6	8978.2	8443.0	7832.3	8014.9	10260.5	10493.4	10285.7	6755.7
40°	10642.5	10711.7	10571.1	10033.8	9463.0	8925.7	8898.4	11104.2	11769.5	11555.4	7540.6
42.5°	11345.5	11398.0	11402.2	11022.3	10508.1	10264.7	10025.4	12180.8	13368.7	13121.0	8451.4
45°	12233.3	12308.8	12264.7	12006.6	11622.5	11578.5	11454.6	13482.0	15282.7	14970.0	9633.0
47.5°	13605.8	13656.2	13547.0	13242.7	12852.4	12921.6	12848.2	14940.6	17234.4	16965.8	10856.5
50°	14558.6	14642.6	14797.9	14919.6	14636.3	14380.2	14162.0	16302.6	19087.6	18846.2	12107.3
52.5°	14548.1	14686.6	15177.7	15790.5	16409.7	16332.0	15704.5	17807.4	20856.8	20558.8	13282.6
55°	13568.0	13836.7	14558.6	15645.7	17360.4	18214.5	17929.1	19549.3	22384.6	22183.1	14644.7
57.5°	11544.9	11708.6	12711.8	14231.2	16829.4	19100.2	20506.3	21910.3	24216.8	24122.3	16760.1
60°	7765.2	7838.6	9129.3	11007.6	14327.8	18216.6	22395.1	24766.6	26472.9	26426.7	19230.3
62.5°	4449.2	4480.7	5416.7	7001.2	10195.4	15438.0	22554.6	28290.3	29178.1	29203.3	22088.7
65°	2394.6	2411.4	3166.9	4109.2	6203.7	11003.4	20281.7	30221.1	31364.9	31413.2	23860.0
66°	2067.2	1987.5	2520.5	3502.7	4936.1	8757.8	18844.1	30151.9	31784.7	31732.2	23797.0
67.5°	1571.9	1643.3	2012.6	2692.6	3658.0	6226.8	15557.6	28810.8	31465.7	31302.0	22829.5
70°	1124.9	1154.3	1433.4	1920.3	2491.1	3416.7	9941.5	23929.3	28598.8	28378.5	19889.3
72.5°	726.1	757.6	1015.8	1389.3	1800.7	1865.7	5565.7	17289.0	22048.8	22017.4	14978.3
75°	518.4	547.8	671.6	994.8	1353.7	1154.3	2680.0	11651.9	14017.1	13922.7	9265.7
77.5°	375.7	390.4	449.1	650.6	967.5	826.9	1242.4	6222.6	6978.1	7307.6	4094.5
80°	216.2	228.8	312.7	396.7	654.8	564.5	593.9	2497.4	2575.1	2451.3	1280.2
82.5°	107.0	121.7	186.8	270.7	409.2	379.9	272.8	751.3	793.3	772.3	323.2
85°	25.2	31.5	104.9	178.4	199.4	170.0	132.2	220.4	272.8	266.5	123.8
87.5°	2.1	4.2	37.8	31.5	33.6	56.7	46.2	56.7	88.1	81.8	44.1
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: P455340  
 CATALOG NUMBER: GALN-SA6C-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0	3104.0
2.5°	3131.2	3091.4	2975.9	2862.6	2768.2	2669.5	2579.3	2526.8	2505.8	2482.7	2493.2
5°	3175.3	3078.8	2845.8	2644.3	2447.1	2279.2	2144.9	2058.8	2016.8	2010.5	2000.1
7.5°	3234.1	3068.3	2707.3	2392.5	2134.4	1947.6	1794.4	1670.6	1632.8	1599.2	1571.9
10°	3305.4	3049.4	2535.2	2128.1	1853.1	1618.1	1416.6	1269.7	1194.2	1173.2	1187.9
12.5°	3381.0	3013.7	2354.7	1884.6	1567.7	1267.6	1080.8	1007.4	986.4	978.0	980.1
15°	3456.5	2969.6	2165.8	1649.6	1248.7	1011.6	925.5	906.6	898.2	894.0	889.8
17.5°	3525.8	2898.3	1953.9	1420.8	1011.6	864.7	833.2	816.4	799.6	793.3	782.8
20°	3607.6	2816.4	1762.9	1164.8	856.3	782.8	745.0	713.6	688.4	671.6	669.5
22.5°	3685.3	2711.5	1563.5	965.4	780.7	703.1	642.2	608.6	579.2	558.3	564.5
25°	3727.3	2583.5	1385.1	841.6	711.5	623.3	556.2	514.2	482.7	472.2	470.1
27.5°	3727.3	2426.1	1210.9	770.2	648.5	552.0	482.7	442.8	421.8	407.1	409.2
30°	3697.9	2251.9	1049.3	715.7	593.9	489.0	423.9	388.3	371.5	361.0	358.9
32.5°	3674.8	2086.1	910.8	663.2	537.3	434.4	377.8	350.5	333.7	323.2	323.2
35°	3710.5	1943.4	803.8	610.7	484.8	392.5	342.1	316.9	300.1	291.7	289.6
37.5°	3804.9	1813.3	721.9	554.1	436.5	356.8	316.9	287.5	270.7	260.2	256.0
40°	4037.9	1739.8	661.1	501.6	390.4	327.4	287.5	260.2	239.3	228.8	226.7
42.5°	4411.4	1741.9	602.3	453.3	354.7	302.2	262.3	230.9	207.8	197.3	195.2
45°	4973.9	1821.7	556.2	407.1	323.2	274.9	235.1	201.5	180.5	170.0	170.0
47.5°	5647.6	1977.0	516.3	367.3	293.8	249.7	207.8	174.2	153.2	144.8	144.8
50°	6377.9	2178.4	476.4	325.3	268.6	222.5	178.4	151.1	134.3	128.0	128.0
52.5°	7123.0	2421.9	436.5	291.7	241.3	193.1	153.2	134.3	119.6	115.4	113.3
55°	8100.9	2732.5	394.6	256.0	212.0	165.8	136.4	117.5	100.7	94.4	92.3
57.5°	9605.7	3200.5	348.4	224.6	174.2	138.5	117.5	98.6	79.8	69.3	67.2
60°	11421.1	3771.3	300.1	197.3	140.6	113.3	94.4	75.6	58.8	46.2	44.1
62.5°	13121.0	4134.4	253.9	165.8	111.2	86.0	67.2	56.7	42.0	29.4	27.3
65°	13872.3	4012.7	209.9	134.3	88.1	60.9	44.1	39.9	25.2	12.6	10.5
66°	13622.6	3832.2	193.1	121.7	79.8	52.5	37.8	33.6	18.9	6.3	6.3
67.5°	12886.0	3406.2	167.9	104.9	69.3	42.0	29.4	25.2	10.5	2.1	0.0
70°	11041.2	2755.6	132.2	77.7	50.4	29.4	16.8	12.6	6.3	0.0	0.0
72.5°	8480.8	2052.5	104.9	58.8	35.7	16.8	8.4	4.2	6.3	0.0	0.0
75°	5196.4	1173.2	81.8	44.1	23.1	10.5	6.3	0.0	6.3	2.1	0.0
77.5°	2306.5	526.8	54.6	29.4	16.8	8.4	4.2	0.0	4.2	2.1	0.0
80°	583.4	172.1	31.5	21.0	12.6	6.3	2.1	0.0	4.2	4.2	2.1
82.5°	159.5	63.0	23.1	16.8	10.5	6.3	2.1	0.0	4.2	4.2	4.2
85°	63.0	29.4	21.0	16.8	12.6	6.3	2.1	0.0	4.2	4.2	4.2
87.5°	29.4	21.0	21.0	18.9	14.7	6.3	2.1	0.0	4.2	2.1	4.2
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)