

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: P459197

Luminaire Tested: **GALN-SA6D-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459197  
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-SA6D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 31946 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

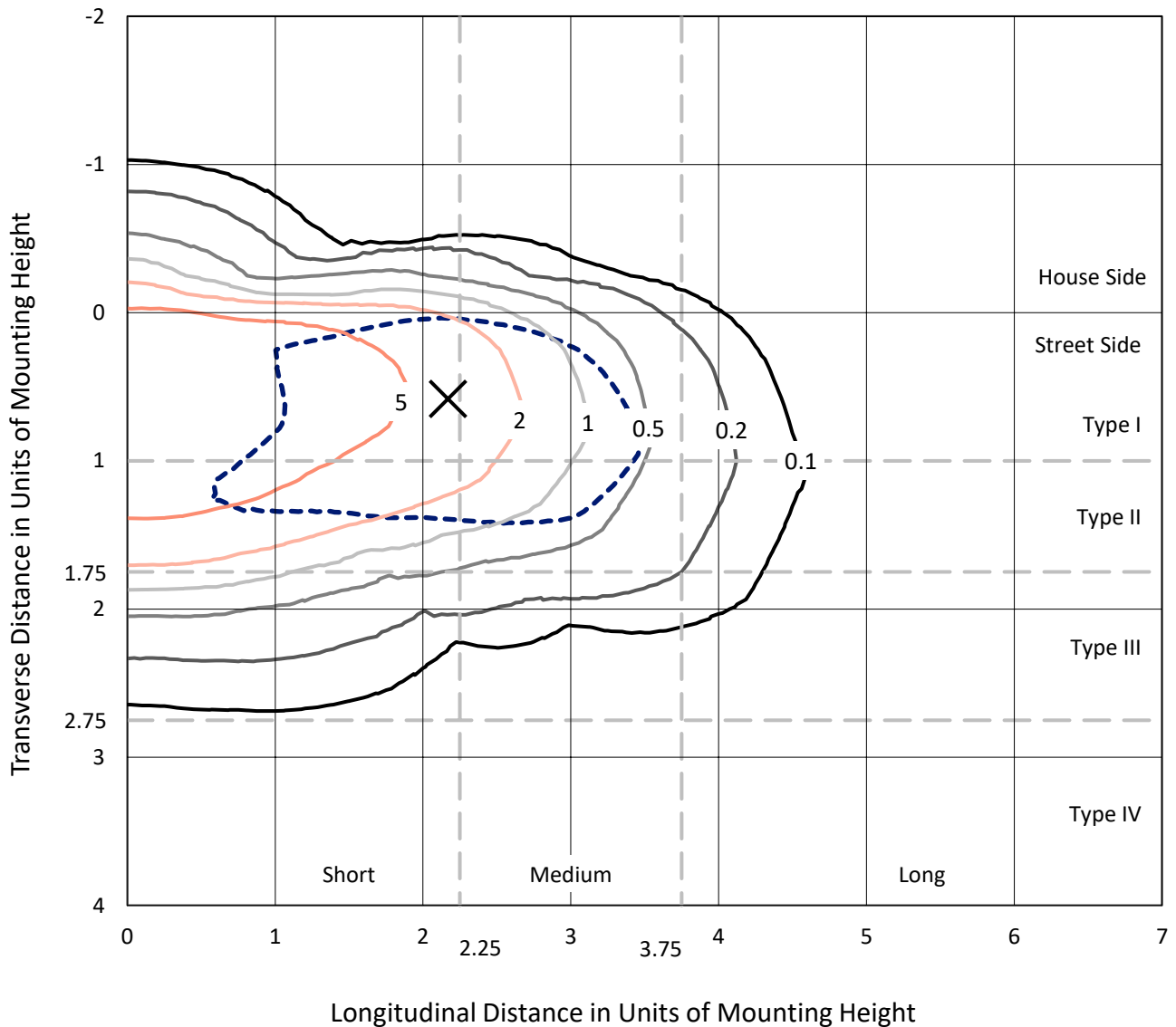
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459197  
 CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

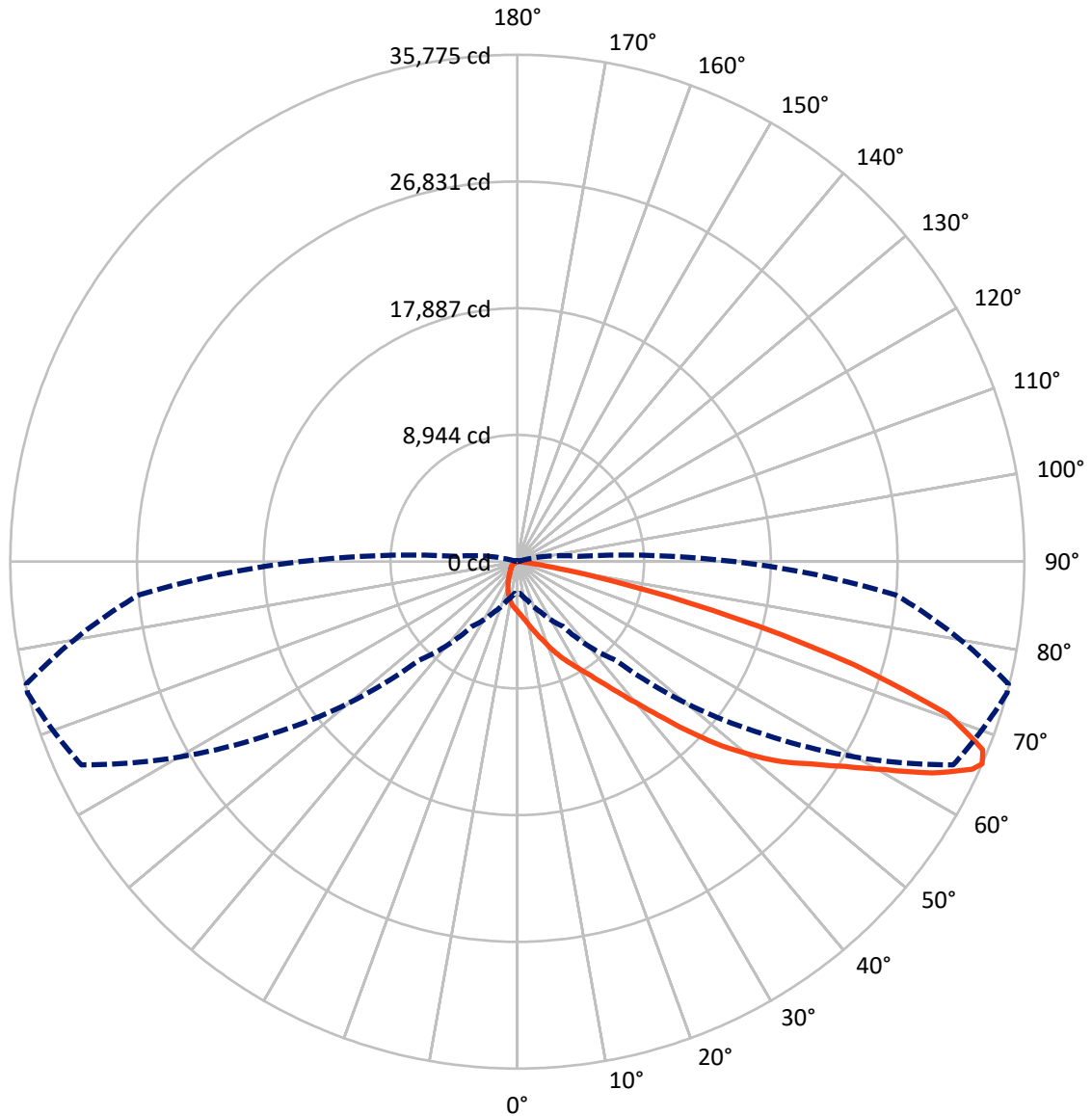
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P459197  
CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459197

CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1972.2	0.0	1972.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	29973.8	0.0	29973.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	31946.0	0.0	31946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.0	1.1
10°-20°	991.7	3.1
20°-30°	1712.4	5.4
30°-40°	3088.9	9.7
40°-50°	5580.2	17.5
50°-60°	8699.6	27.2
60°-70°	8264.2	25.9
70°-80°	3097.2	9.7
80°-90°	174.7	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°	31946.0	100.0
0°-180°	31946.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459197

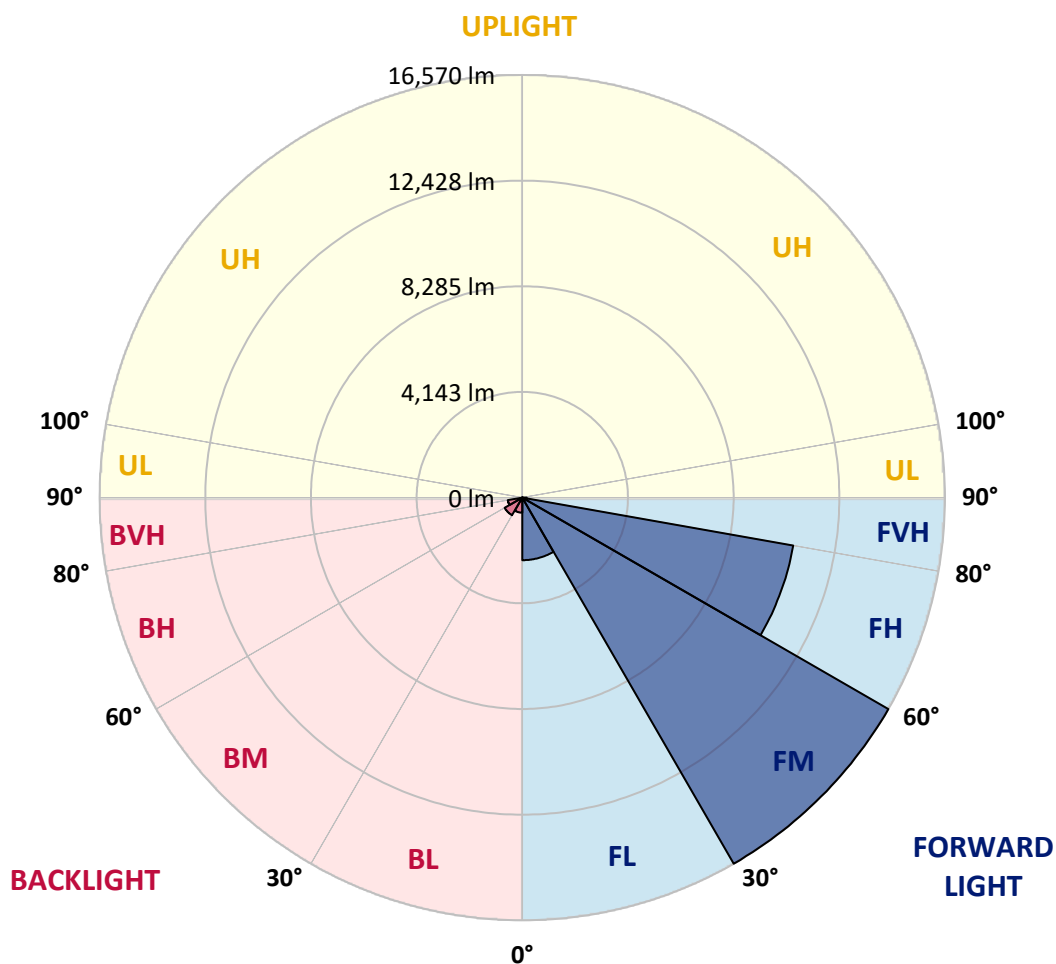
CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.1	7.7			
FM (30°-60°)	16570.4	51.9			
FH (60°-80°)	10785.6	33.8			G4/12000
FVH (80°-90°)	165.7	0.5			G2/225
BL (0°-30°)	589.0	1.8	B2/1000		
BM (30°-60°)	798.3	2.5	B1/1000		
BH (60°-80°)	575.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.0	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: P459197

CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6
2.5°	4173.9	4121.9	4138.5	4114.9	4060.5	3980.2	3909.3	3807.8	3706.2	3689.7	3576.3
5°	4724.3	4710.1	4691.2	4622.7	4584.9	4462.1	4315.6	4140.8	3930.6	3892.8	3687.3
7.5°	5099.9	5092.8	5102.2	5066.8	5033.7	4922.7	4766.8	4528.2	4202.3	4181.0	3838.5
10°	5222.7	5241.6	5277.0	5333.7	5385.7	5350.3	5232.1	4934.5	4554.2	4492.8	4010.9
12.5°	5151.8	5173.1	5258.1	5409.3	5577.0	5673.9	5626.6	5409.3	4927.4	4877.8	4204.6
15°	4970.0	4995.9	5116.4	5350.3	5650.2	5924.3	6042.4	5886.5	5362.1	5281.8	4438.5
17.5°	4700.7	4738.5	4910.9	5220.3	5631.4	6103.8	6436.8	6384.9	5825.0	5749.5	4693.6
20°	4497.5	4525.9	4672.3	5026.6	5551.0	6203.0	6812.4	6958.9	6396.7	6266.8	4993.6
22.5°	4632.2	4641.6	4691.2	4903.8	5406.9	6229.0	7143.1	7556.5	7003.8	6888.0	5305.4
25°	5291.2	5196.7	5147.1	5099.9	5376.2	6205.4	7443.1	8180.1	7608.5	7485.6	5614.8
27.5°	6330.5	6288.0	6037.6	5702.2	5638.4	6236.1	7641.5	8770.6	8177.7	8045.5	5917.2
30°	7462.0	7388.8	7235.2	6743.9	6250.2	6453.4	7785.6	9344.6	8851.0	8676.2	6193.5
32.5°	8501.4	8548.6	8319.5	7814.0	7242.3	6916.4	7972.2	9970.6	9623.4	9406.1	6514.8
35°	9713.1	9807.6	9455.7	8971.4	8302.9	7752.6	8336.0	10676.9	10603.7	10329.7	7010.8
37.5°	10943.8	11000.5	10785.5	10105.3	9502.9	8815.5	9021.0	11548.5	11810.7	11576.9	7603.7
40°	11978.4	12056.4	11898.1	11293.4	10650.9	10046.2	10015.5	12498.1	13246.9	13006.0	8487.2
42.5°	12769.8	12828.8	12833.5	12406.0	11827.3	11553.2	11284.0	13709.9	15046.9	14768.1	9512.4
45°	13768.9	13854.0	13804.4	13513.8	13081.6	13031.9	12892.6	15174.4	17201.1	16849.2	10842.2
47.5°	15313.8	15370.5	15247.6	14905.1	14465.8	14543.7	14461.0	16816.1	19397.9	19095.6	12219.4
50°	16386.2	16480.7	16655.5	16792.5	16473.6	16185.4	15939.7	18349.1	21483.7	21212.1	13627.2
52.5°	16374.4	16530.3	17083.0	17772.8	18469.6	18382.2	17675.9	20042.8	23475.0	23139.6	14950.0
55°	15271.3	15573.6	16386.2	17609.8	19539.7	20501.0	20179.8	22003.4	25194.6	24967.9	16483.0
57.5°	12994.2	13178.4	14307.5	16017.7	18942.0	21497.9	23080.5	24660.8	27256.8	27150.5	18864.1
60°	8739.9	8822.6	10275.3	12389.4	16126.4	20503.4	25206.4	27875.7	29796.1	29744.1	21644.3
62.5°	5007.7	5043.2	6096.7	7880.1	11475.3	17375.9	25386.0	31841.7	32840.9	32869.2	24861.6
65°	2695.2	2714.1	3564.5	4625.1	6982.5	12384.7	22827.8	34014.9	35302.2	35356.6	26855.2
66°	2326.7	2237.0	2836.9	3942.4	5555.8	9857.2	21209.7	33936.9	35774.7	35715.6	26784.4
67.5°	1769.2	1849.6	2265.3	3030.6	4117.2	7008.5	17510.6	32427.5	35415.6	35231.4	25695.4
70°	1266.1	1299.2	1613.3	2161.4	2803.9	3845.6	11189.5	26933.2	32188.9	31940.9	22386.0
72.5°	817.3	852.7	1143.3	1563.7	2026.7	2099.9	6264.4	19459.3	24816.7	24781.3	16858.6
75°	583.4	616.5	755.9	1119.7	1523.6	1299.2	3016.5	13114.6	15776.8	15670.5	10428.9
77.5°	422.8	439.4	505.5	732.3	1088.9	930.7	1398.4	7003.8	7854.1	8225.0	4608.5
80°	243.3	257.5	352.0	446.4	737.0	635.4	668.5	2811.0	2898.4	2759.0	1440.9
82.5°	120.5	137.0	210.2	304.7	460.6	427.5	307.1	845.6	892.9	869.3	363.8
85°	28.3	35.4	118.1	200.8	224.4	191.3	148.8	248.0	307.1	300.0	139.4
87.5°	2.4	4.7	42.5	35.4	37.8	63.8	52.0	63.8	99.2	92.1	49.6
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: P459197  
 CATALOG NUMBER: GALN-SA6D-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6	3493.6
2.5°	3524.3	3479.4	3349.5	3222.0	3115.7	3004.6	2903.1	2844.0	2820.4	2794.4	2806.2
5°	3573.9	3465.3	3203.1	2976.3	2754.3	2565.3	2414.1	2317.3	2270.0	2262.9	2251.1
7.5°	3640.1	3453.5	3047.2	2692.8	2402.3	2192.1	2019.6	1880.3	1837.7	1800.0	1769.2
10°	3720.4	3432.2	2853.5	2395.2	2085.8	1821.2	1594.4	1429.1	1344.1	1320.4	1337.0
12.5°	3805.4	3392.0	2650.3	2121.2	1764.5	1426.7	1216.5	1133.8	1110.2	1100.8	1103.1
15°	3890.5	3342.4	2437.7	1856.6	1405.5	1138.6	1041.7	1020.4	1011.0	1006.3	1001.5
17.5°	3968.4	3262.1	2199.2	1599.2	1138.6	973.2	937.8	918.9	900.0	892.9	881.1
20°	4060.5	3170.0	1984.2	1311.0	963.8	881.1	838.6	803.1	774.8	755.9	753.5
22.5°	4147.9	3051.9	1759.8	1086.6	878.7	791.3	722.8	685.0	652.0	628.3	635.4
25°	4195.2	2907.8	1559.0	947.2	800.8	701.6	626.0	578.7	543.3	531.5	529.1
27.5°	4195.2	2730.6	1363.0	866.9	729.9	621.2	543.3	498.4	474.8	458.3	460.6
30°	4162.1	2534.6	1181.1	805.5	668.5	550.4	477.2	437.0	418.1	406.3	403.9
32.5°	4136.1	2348.0	1025.2	746.4	604.7	489.0	425.2	394.5	375.6	363.8	363.8
35°	4176.3	2187.3	904.7	687.4	545.7	441.7	385.0	356.7	337.8	328.3	326.0
37.5°	4282.6	2040.9	812.6	623.6	491.3	401.6	356.7	323.6	304.7	292.9	288.2
40°	4544.8	1958.2	744.1	564.6	439.4	368.5	323.6	292.9	269.3	257.5	255.1
42.5°	4965.2	1960.6	677.9	510.2	399.2	340.1	295.3	259.8	233.9	222.0	219.7
45°	5598.3	2050.3	626.0	458.3	363.8	309.4	264.6	226.8	203.1	191.3	191.3
47.5°	6356.5	2225.1	581.1	413.4	330.7	281.1	233.9	196.1	172.4	163.0	163.0
50°	7178.6	2451.9	536.2	366.1	302.4	250.4	200.8	170.1	151.2	144.1	144.1
52.5°	8017.1	2725.9	491.3	328.3	271.6	217.3	172.4	151.2	134.6	129.9	127.6
55°	9117.9	3075.5	444.1	288.2	238.6	186.6	153.5	132.3	113.4	106.3	103.9
57.5°	10811.5	3602.3	392.1	252.7	196.1	155.9	132.3	111.0	89.8	78.0	75.6
60°	12854.8	4244.8	337.8	222.0	158.3	127.6	106.3	85.0	66.1	52.0	49.6
62.5°	14768.1	4653.4	285.8	186.6	125.2	96.8	75.6	63.8	47.2	33.1	30.7
65°	15613.8	4516.4	236.2	151.2	99.2	68.5	49.6	44.9	28.3	14.2	11.8
66°	15332.7	4313.3	217.3	137.0	89.8	59.1	42.5	37.8	21.3	7.1	7.1
67.5°	14503.6	3833.8	189.0	118.1	78.0	47.2	33.1	28.3	11.8	2.4	0.0
70°	12427.2	3101.5	148.8	87.4	56.7	33.1	18.9	14.2	7.1	0.0	0.0
72.5°	9545.4	2310.2	118.1	66.1	40.2	18.9	9.4	4.7	7.1	0.0	0.0
75°	5848.7	1320.4	92.1	49.6	26.0	11.8	7.1	0.0	7.1	2.4	0.0
77.5°	2596.0	592.9	61.4	33.1	18.9	9.4	4.7	0.0	4.7	2.4	0.0
80°	656.7	193.7	35.4	23.6	14.2	7.1	2.4	0.0	4.7	4.7	2.4
82.5°	179.5	70.9	26.0	18.9	11.8	7.1	2.4	0.0	4.7	4.7	4.7
85°	70.9	33.1	23.6	18.9	14.2	7.1	2.4	0.0	4.7	4.7	4.7
87.5°	33.1	23.6	23.6	21.3	16.5	7.1	2.4	0.0	4.7	2.4	4.7
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)