

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: P459056

Luminaire Tested: **GALN-SA5C-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24079 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

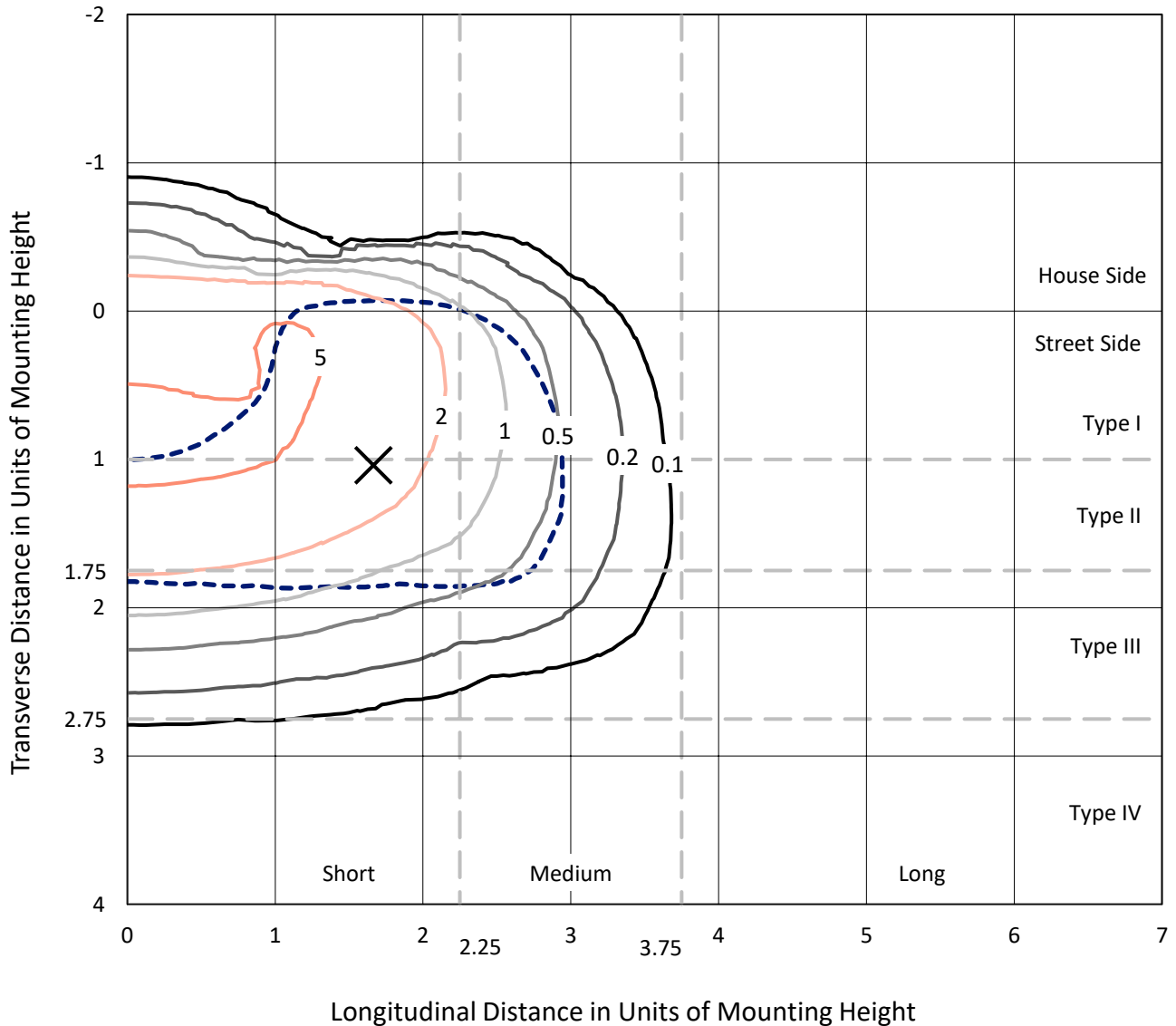
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459056  
 CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

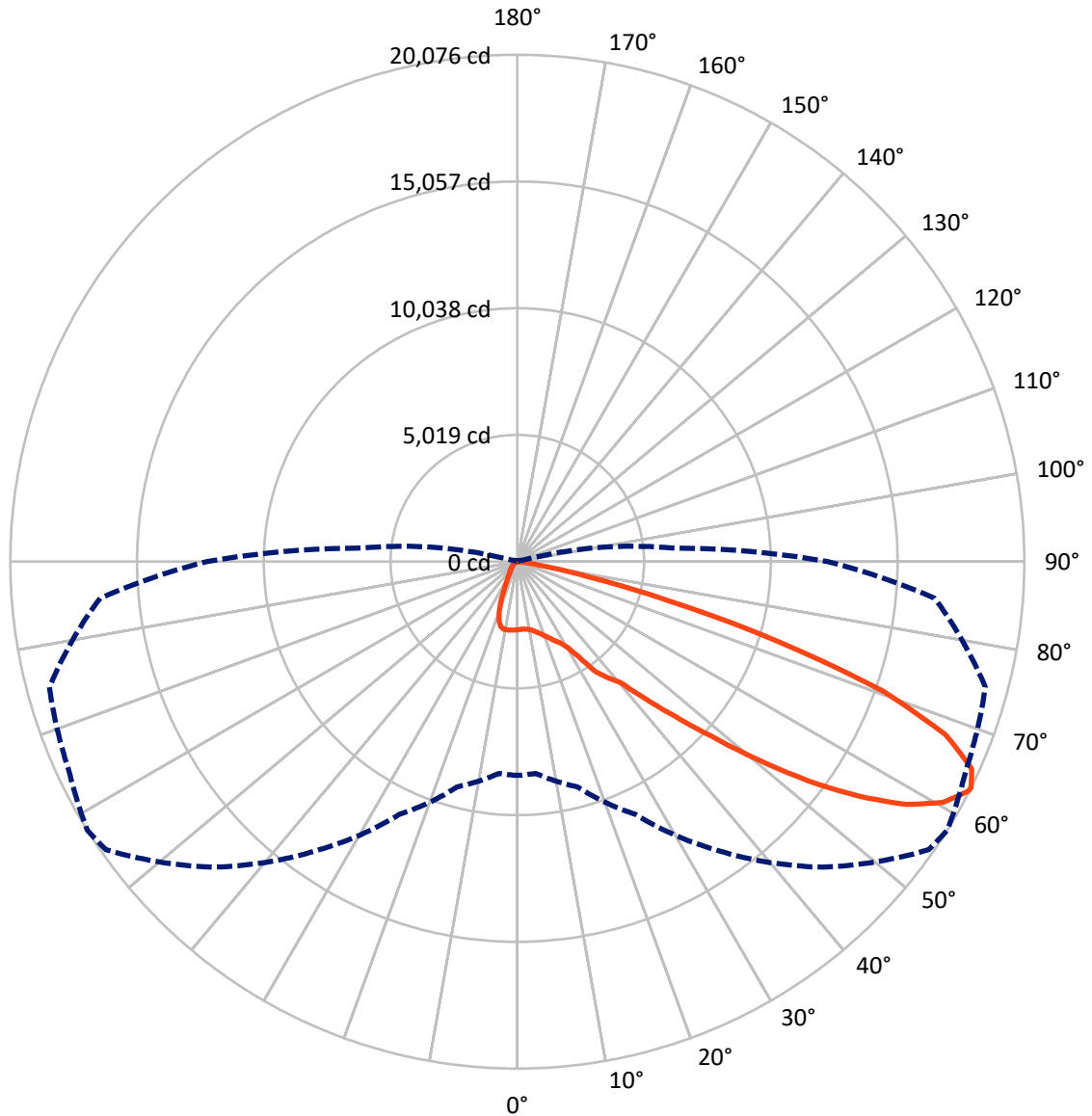
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P459056  
CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P459056

CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2493.2	0.0	2493.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21585.8	0.0	21585.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	24079.0	0.0	24079.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.4	1.0
10°-20°	687.3	2.9
20°-30°	1192.9	5.0
30°-40°	2192.1	9.1
40°-50°	4126.5	17.1
50°-60°	7058.1	29.3
60°-70°	6758.2	28.1
70°-80°	1723.4	7.2
80°-90°	88.1	0.4
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°	24079.0	100.0
0°-180°	24079.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459056

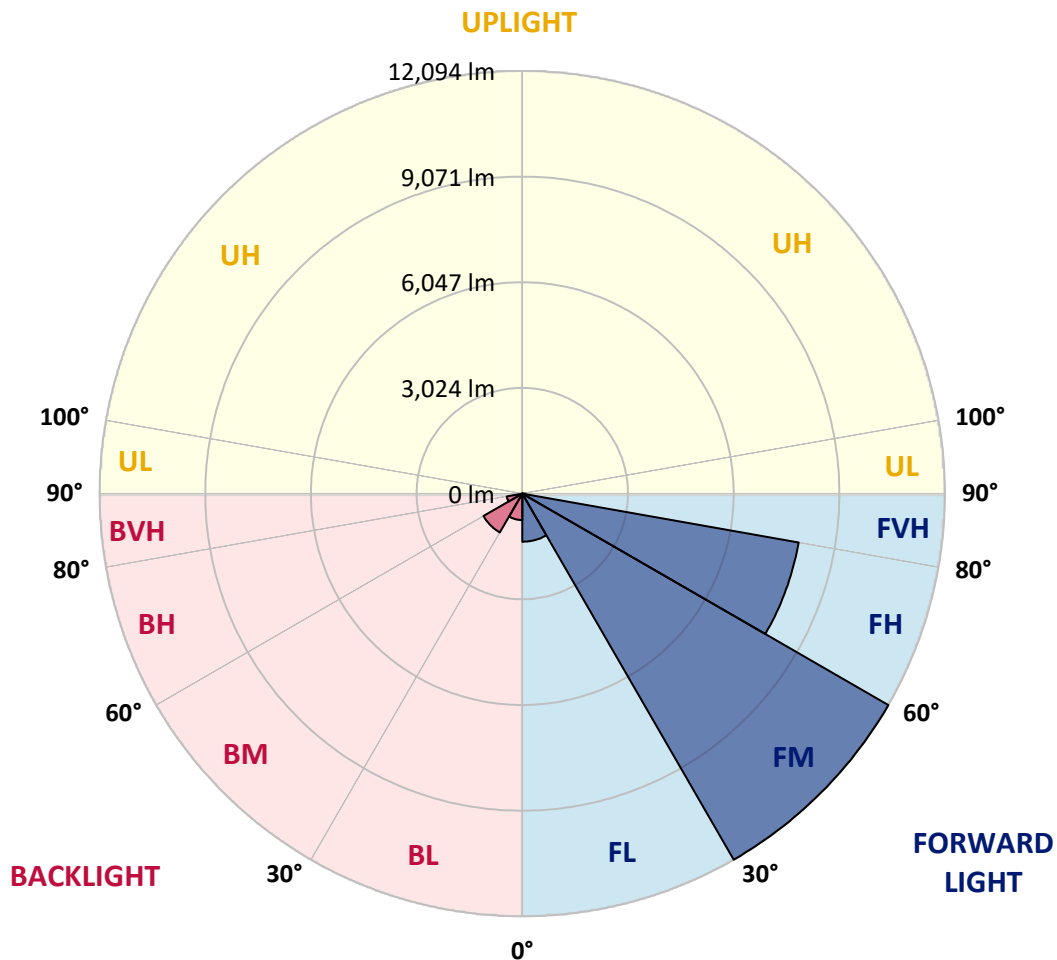
CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1376.5	5.7			
FM	(30°-60°)	12094.4	50.2			
FH	(60°-80°)	8030.2	33.3			G4/12000
FVH	(80°-90°)	84.7	0.4			G1/100
BL	(0°-30°)	756.1	3.1	B2/1000		
BM	(30°-60°)	1282.4	5.3	B2/2500		
BH	(60°-80°)	451.3	1.9	B1/500		G1/500
BVH	(80°-90°)	3.4	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 III Short





REPORT NUMBER: P459056  
 CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7
2.5°	2628.7	2637.7	2646.8	2650.4	2663.1	2675.8	2684.9	2683.0	2697.6	2704.8	2704.8
5°	2523.5	2523.5	2547.1	2568.8	2605.1	2641.4	2675.8	2683.0	2710.2	2735.6	2744.7
7.5°	2434.7	2440.1	2458.3	2498.1	2547.1	2610.5	2679.4	2695.7	2742.9	2799.1	2822.6
10°	2393.0	2396.6	2420.2	2461.9	2523.5	2610.5	2706.6	2737.4	2809.9	2898.8	2931.4
12.5°	2383.9	2389.4	2412.9	2460.1	2530.8	2635.9	2766.4	2799.1	2904.2	3018.4	3067.4
15°	2400.2	2403.9	2427.4	2478.2	2556.1	2681.2	2846.2	2891.5	3016.6	3149.0	3212.4
17.5°	2458.3	2454.6	2470.9	2512.6	2599.7	2737.4	2942.3	2996.7	3143.5	3324.8	3366.5
20°	2704.8	2681.2	2666.7	2630.5	2664.9	2817.2	3058.3	3138.1	3319.4	3504.3	3533.3
22.5°	3236.0	3183.4	3080.1	2938.7	2829.9	2926.0	3197.9	3290.4	3524.2	3705.5	3705.5
25°	3912.2	3845.1	3741.8	3433.6	3167.1	3105.4	3355.6	3471.6	3747.2	3930.3	3870.5
27.5°	4758.8	4706.2	4505.0	4146.0	3738.1	3419.1	3538.7	3645.7	3944.8	4166.0	4040.9
30°	5447.7	5422.3	5257.3	4936.4	4486.9	4020.9	3879.5	3950.2	4207.7	4463.3	4334.6
32.5°	6029.6	6029.6	5861.0	5561.9	5141.3	4728.0	4457.8	4508.6	4755.2	5050.7	4811.4
35°	6669.5	6647.8	6511.8	6227.2	5755.9	5391.5	5280.9	5349.8	5572.8	5792.1	5202.9
37.5°	7342.1	7334.9	7193.5	6917.9	6533.6	6074.9	5815.7	5833.8	5948.0	6082.2	5661.6
40°	8072.7	8083.6	7898.7	7728.3	7365.7	6896.2	6399.4	6285.2	6392.2	6771.1	6508.2
42.5°	8935.6	8910.3	8830.5	8598.4	8306.6	8025.6	7429.1	7387.4	7481.7	7887.8	7603.2
45°	9938.2	9974.4	9836.6	9707.9	9512.1	9278.3	8779.7	8707.2	8810.5	9441.4	9037.2
47.5°	10942.5	10908.0	10996.9	10973.3	11078.4	10904.4	10463.9	10315.2	10563.6	11161.8	10567.2
50°	11707.5	11745.6	11930.5	12200.6	12652.0	12749.9	12327.5	12276.8	12387.3	12771.7	11935.9
52.5°	12204.2	12331.1	12621.2	13315.5	14129.5	14762.2	14441.3	14414.1	14368.8	14472.1	13244.8
55°	12528.7	12657.5	13036.3	14058.8	15460.2	16488.0	16504.4	16388.3	16089.2	16014.9	14468.5
57.5°	12329.3	12354.7	12894.9	14261.8	16198.0	17719.0	18252.0	18135.9	17583.0	17302.0	15549.0
60°	11082.1	11134.6	11887.0	13493.2	15877.1	18121.4	19410.4	19357.8	18752.3	18435.1	16390.2
62.5°	8872.2	9024.5	9798.6	11589.7	14385.1	17443.4	19879.9	20028.6	19557.2	19120.3	16654.8
63°	8466.1	8417.2	9234.8	11034.9	13989.9	17108.1	19887.2	20075.7	19593.5	19185.6	16582.3
65°	6267.1	6413.9	6945.1	8701.8	11642.2	15547.2	19439.4	19773.0	19459.3	18897.4	15779.2
67.5°	3518.8	3511.5	4098.9	5694.2	8148.8	12195.2	17577.6	18282.8	18217.5	16957.6	13079.9
70°	1722.2	1749.4	1990.5	2951.4	4726.2	8413.5	14606.3	15367.7	15391.3	13319.2	9044.4
72.5°	779.5	792.2	964.4	1437.6	2429.2	4479.6	10065.1	10792.0	10657.9	8487.9	4994.5
75°	411.5	438.7	531.2	723.3	1171.1	1847.3	5474.9	6178.3	5897.3	3877.7	1838.2
77.5°	304.6	313.6	360.8	460.5	627.3	719.7	2362.2	2809.9	2632.3	1403.2	609.1
80°	223.0	230.2	268.3	326.3	395.2	366.2	890.1	1020.6	915.5	476.8	186.7
82.5°	136.0	137.8	195.8	242.9	248.4	204.9	293.7	315.4	329.9	268.3	101.5
85°	48.9	61.6	132.3	175.8	146.8	103.3	123.3	136.0	148.7	170.4	59.8
87.5°	5.4	7.3	63.5	85.2	41.7	38.1	45.3	50.8	54.4	63.5	29.0
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: P459056  
 CATALOG NUMBER: GALN-SA5C-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7	2695.7
2.5°	2712.1	2719.3	2713.9	2704.8	2703.0	2697.6	2686.7	2686.7	2686.7	2690.3	2686.7
5°	2751.9	2757.4	2744.7	2726.6	2706.6	2681.2	2654.0	2637.7	2635.9	2632.3	2623.2
7.5°	2828.1	2835.3	2806.3	2762.8	2708.4	2646.8	2588.8	2534.4	2509.0	2489.1	2489.1
10°	2938.7	2945.9	2887.9	2809.9	2701.2	2576.1	2438.3	2313.2	2215.3	2170.0	2159.1
12.5°	3071.0	3074.6	2978.5	2842.6	2663.1	2422.0	2128.3	1854.6	1664.2	1577.2	1568.1
15°	3216.0	3190.7	3063.7	2855.3	2554.3	2104.7	1597.1	1261.8	1064.2	1006.1	1027.9
17.5°	3362.9	3315.7	3129.0	2835.3	2309.6	1597.1	1073.2	861.1	799.5	783.2	783.2
20°	3500.7	3435.4	3176.1	2748.3	1885.4	1100.4	795.8	745.1	734.2	723.3	725.1
22.5°	3638.4	3538.7	3217.8	2554.3	1405.0	786.8	712.5	696.1	681.6	667.1	665.3
25°	3772.6	3634.8	3234.2	2195.4	957.2	676.2	650.8	629.1	600.1	583.7	580.1
27.5°	3912.2	3750.8	3223.3	1742.2	698.0	605.5	580.1	549.3	514.9	485.8	485.8
30°	4180.5	3972.0	3185.2	1252.7	587.4	533.0	500.4	451.4	413.3	384.3	382.5
32.5°	4546.7	4260.2	3054.7	881.1	522.1	469.5	420.6	366.2	326.3	304.6	304.6
35°	4873.0	4550.3	2809.9	649.0	469.5	407.9	348.1	295.5	264.7	250.2	244.7
37.5°	5369.7	4974.5	2472.8	527.5	418.8	353.5	291.9	242.9	217.5	206.7	206.7
40°	6114.8	5493.0	2059.4	462.3	369.8	300.9	242.9	204.9	184.9	172.2	172.2
42.5°	7039.4	6127.5	1640.6	415.1	324.5	259.2	203.0	174.0	155.9	146.8	145.0
45°	8203.2	6796.4	1263.6	371.6	288.2	221.2	172.2	146.8	128.7	123.3	125.1
47.5°	9417.9	7385.6	978.9	333.6	250.2	186.7	146.8	126.9	114.2	107.0	107.0
50°	10454.8	7791.7	743.3	290.1	221.2	157.7	128.7	114.2	103.3	99.7	97.9
52.5°	11321.4	7909.6	569.2	252.0	194.0	136.0	114.2	103.3	94.3	88.8	88.8
55°	12059.2	7806.2	446.0	212.1	163.2	117.8	101.5	92.5	81.6	76.1	74.3
57.5°	12490.7	7474.5	340.8	175.8	132.3	97.9	88.8	78.0	65.3	56.2	56.2
60°	12708.2	6992.2	261.1	145.0	101.5	78.0	72.5	58.0	45.3	38.1	36.3
62.5°	12447.2	6352.3	197.6	114.2	76.1	58.0	48.9	41.7	29.0	21.8	21.8
63°	12285.8	6167.4	190.4	108.8	70.7	54.4	45.3	38.1	25.4	19.9	18.1
65°	11199.9	5360.7	155.9	87.0	56.2	38.1	30.8	27.2	18.1	9.1	7.3
67.5°	8893.9	4100.7	123.3	65.3	39.9	27.2	18.1	16.3	5.4	0.0	0.0
70°	6013.3	2648.6	96.1	47.1	27.2	16.3	9.1	7.3	1.8	0.0	0.0
72.5°	3136.3	1357.8	74.3	34.4	16.3	10.9	5.4	1.8	0.0	0.0	0.0
75°	1109.5	462.3	54.4	21.8	10.9	5.4	1.8	0.0	0.0	0.0	0.0
77.5°	335.4	172.2	34.4	16.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0
80°	117.8	63.5	19.9	10.9	5.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	58.0	30.8	12.7	9.1	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	32.6	19.9	10.9	9.1	5.4	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	14.5	10.9	9.1	7.3	3.6	1.8	0.0	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)