

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: P458690

Luminaire Tested: **GALN-SA2C-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10790 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

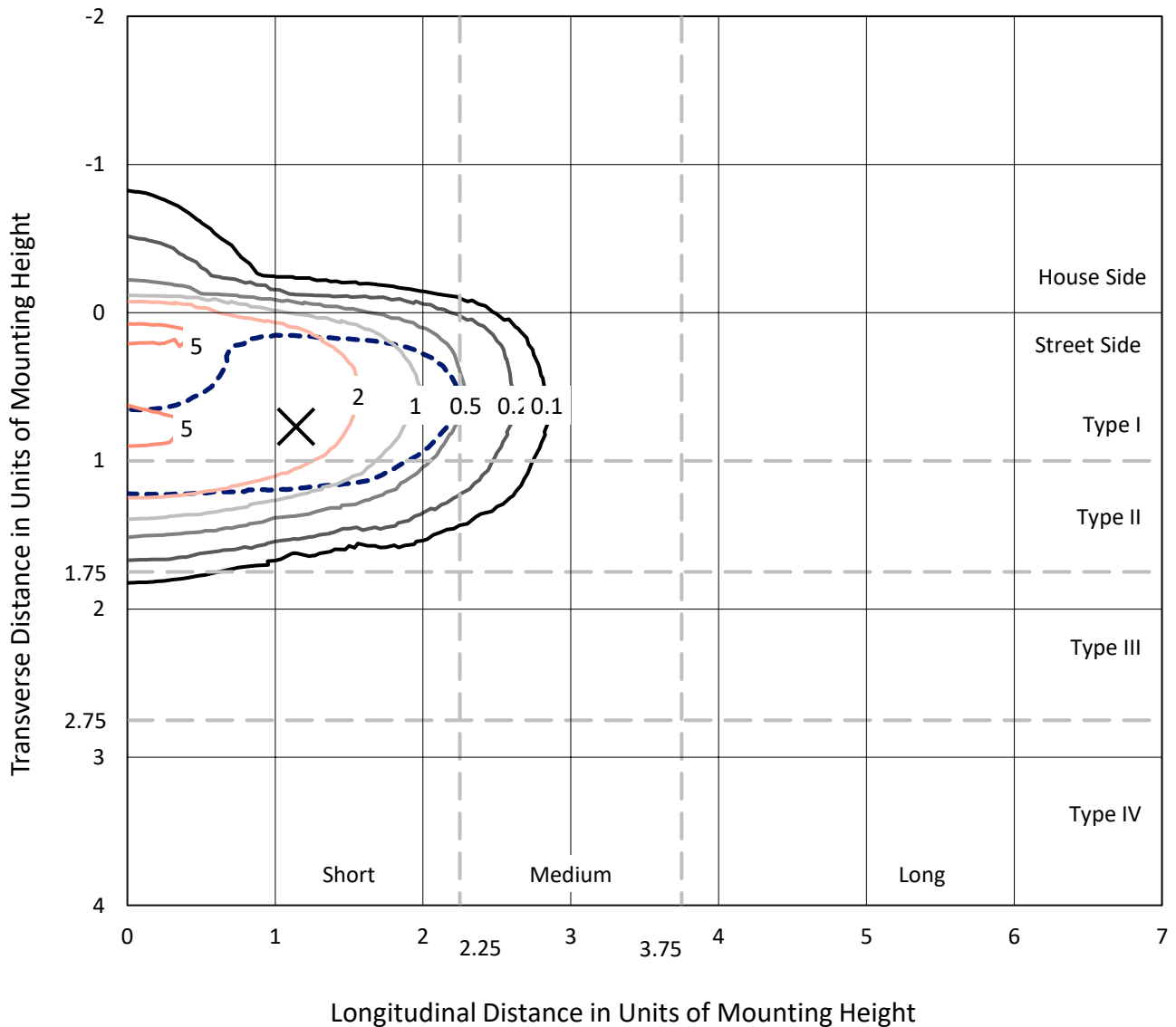
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458690  
 CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

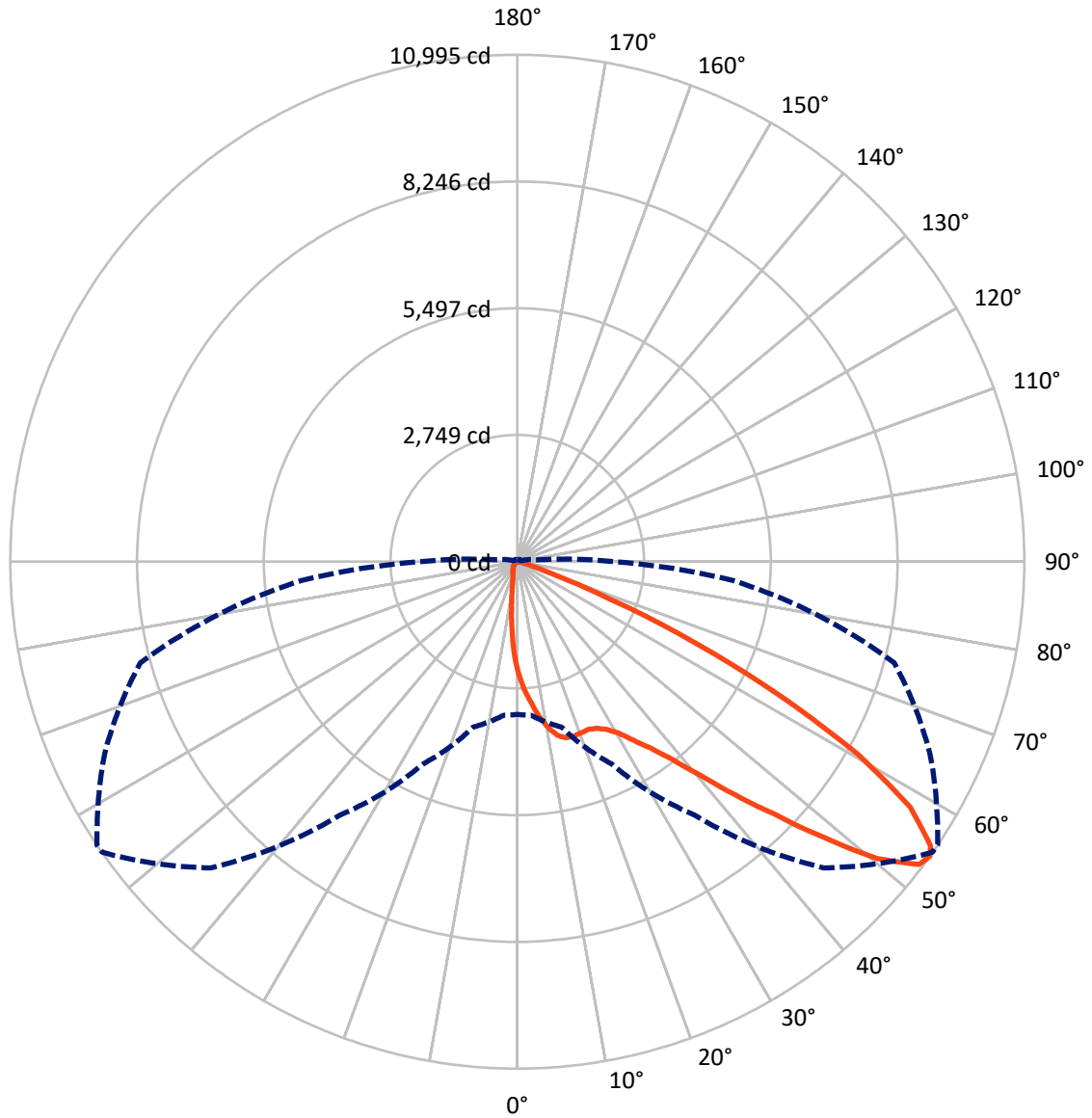
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P458690  
CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P458690

CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	510.2	0.0	510.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	10279.8	0.0	10279.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	10790.0	0.0	10790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	2.0
10°-20°	572.7	5.3
20°-30°	991.8	9.2
30°-40°	1712.0	15.9
40°-50°	2913.9	27.0
50°-60°	2883.6	26.7
60°-70°	1316.1	12.2
70°-80°	169.0	1.6
80°-90°	19.0	0.2
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°	10790.0	100.0
0°-180°	10790.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458690

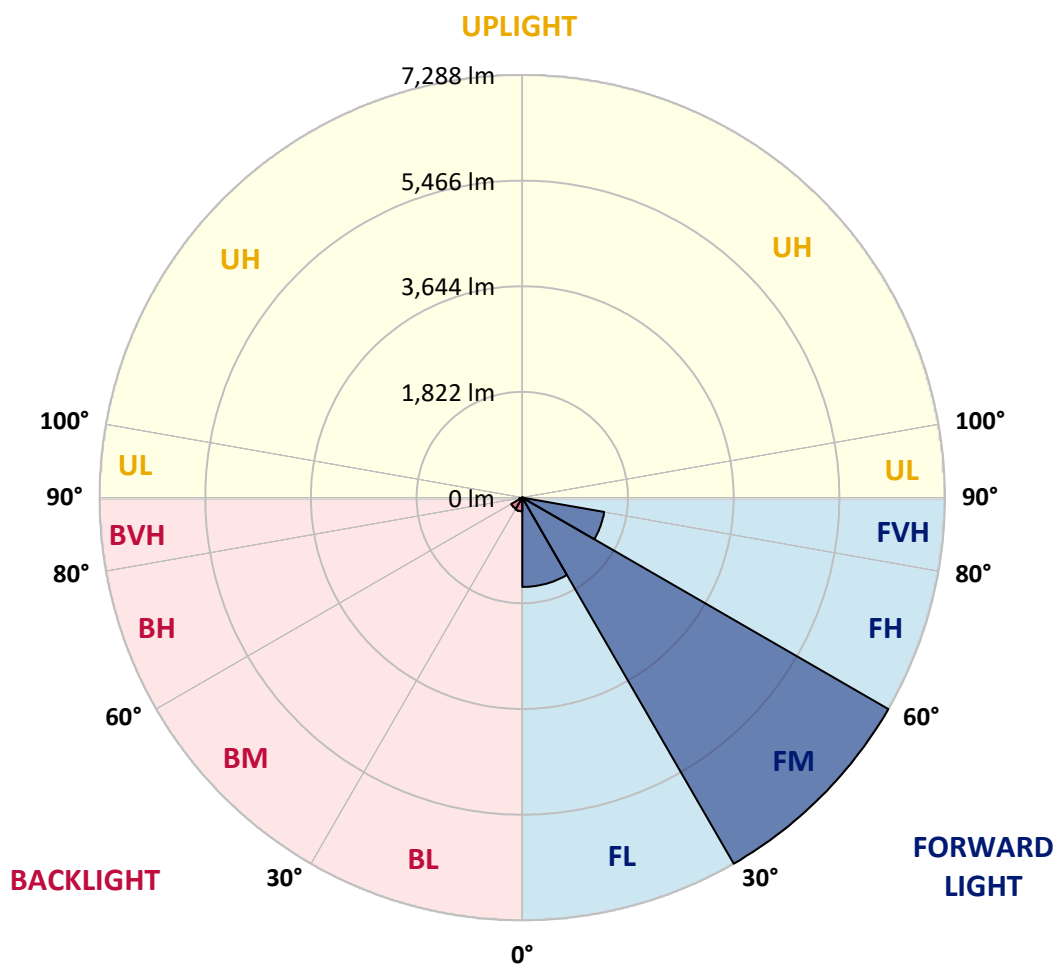
CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.3	14.3			
FM	(30°-60°)	7288.4	67.5			
FH	(60°-80°)	1434.1	13.3			G1/1800
FVH	(80°-90°)	17.0	0.2			G1/100
BL	(0°-30°)	236.0	2.2	B1/500		
BM	(30°-60°)	221.1	2.0	B1/1000		
BH	(60°-80°)	51.1	0.5	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P458690

CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	3046.6	3025.5	2996.4	2973.8	2920.6	2844.2	2763.4	2763.4	2685.5	2577.0	2466.4
5°	3513.9	3500.1	3471.7	3413.5	3353.8	3246.8	3084.4	3056.0	2917.0	2720.4	2513.7
7.5°	3703.9	3710.5	3712.0	3696.7	3668.3	3562.7	3401.8	3382.2	3160.1	2896.6	2575.6
10°	3522.0	3554.0	3585.3	3648.6	3738.2	3763.6	3672.6	3652.3	3433.9	3075.0	2642.6
12.5°	3251.1	3268.6	3286.1	3385.8	3565.6	3771.6	3867.0	3866.3	3681.4	3252.6	2727.7
15°	3125.2	3140.5	3141.9	3186.4	3342.1	3642.1	3950.0	3960.9	3923.1	3471.7	2819.5
17.5°	3151.4	3163.8	3153.6	3164.5	3246.0	3499.4	3940.5	3976.9	4118.9	3682.1	2902.4
20°	3322.5	3346.5	3307.2	3276.6	3301.4	3461.5	3908.5	3959.5	4257.2	3887.4	2978.2
22.5°	3629.7	3642.8	3593.3	3509.6	3465.9	3540.9	3899.8	3950.0	4375.1	4055.6	3021.8
25°	3971.1	3966.7	3912.1	3818.2	3726.5	3701.0	3957.3	4002.4	4472.7	4207.0	3034.9
27.5°	4312.5	4325.6	4233.9	4117.4	4007.5	3941.3	4086.1	4119.6	4582.6	4379.5	3051.0
30°	4709.3	4688.2	4597.9	4464.7	4338.7	4246.3	4293.6	4303.1	4734.0	4608.1	3093.2
32.5°	5225.4	5167.2	5066.0	4833.0	4742.8	4586.3	4597.9	4609.5	4918.2	4834.5	3144.1
35°	5925.7	5922.8	5724.8	5411.1	5191.2	4996.8	4945.9	4955.3	5197.0	5170.8	3257.0
37.5°	6768.7	6780.4	6554.7	6238.8	5834.0	5525.3	5420.5	5422.0	5620.7	5635.3	3428.8
40°	7455.2	7485.8	7351.1	7137.8	6738.2	6255.5	6079.3	6063.3	6216.2	6198.0	3674.1
42.5°	7750.8	7779.2	7829.4	7903.6	7683.8	7285.6	6869.9	6891.8	6938.3	6811.0	3949.3
45°	7605.9	7651.0	7848.3	8306.9	8513.7	8379.7	7884.0	7807.6	7610.3	7477.1	4225.9
47.5°	7002.4	7112.3	7442.1	8205.8	8929.4	9382.2	9028.4	8927.2	8282.9	7963.3	4402.1
50°	6010.2	6016.7	6476.1	7452.3	8713.9	10014.8	10196.8	10121.1	8909.7	8236.3	4490.9
52.5°	4356.9	4500.4	4921.1	6051.7	7780.6	9918.7	10941.5	10910.2	9556.2	8376.1	4619.0
54°	3312.3	3340.0	3714.1	4836.0	6708.3	9390.9	10987.4	10994.6	9877.2	8460.5	4694.7
55°	2715.4	2649.1	3042.2	4119.6	5976.7	8924.3	10837.4	10872.3	10021.3	8504.2	4750.8
57.5°	1287.1	1287.8	1588.4	2173.0	3743.3	6929.6	9920.9	10044.6	10037.3	8579.2	4923.3
60°	651.5	655.9	722.2	1003.2	1849.1	4606.6	8202.8	8497.7	9265.0	8590.1	4980.1
62.5°	455.7	450.6	439.7	482.6	778.2	2341.2	6107.0	6363.2	7871.6	8174.5	4799.6
65°	390.2	379.3	348.7	342.1	393.1	932.5	3803.7	4221.5	6010.2	7078.1	4285.6
67.5°	333.4	329.0	301.4	284.6	278.1	406.2	1962.6	2182.5	4108.0	5087.8	3246.0
70°	283.2	281.0	264.3	243.1	224.9	243.1	728.0	902.0	2289.5	2739.4	1531.7
72.5°	230.0	232.2	235.1	208.2	189.3	172.5	310.8	361.8	958.0	979.1	535.8
75°	201.6	199.5	199.5	181.3	158.0	128.1	171.1	184.2	293.4	272.3	124.5
77.5°	142.0	136.9	160.2	149.2	131.8	91.0	97.5	103.4	121.6	104.1	58.2
80°	98.3	98.3	102.6	133.9	118.7	66.2	59.7	64.1	72.1	61.9	33.5
82.5°	55.3	56.8	67.0	71.3	69.2	44.4	39.3	40.0	48.0	42.2	21.1
85°	6.6	10.9	38.6	37.9	28.4	19.7	21.8	22.6	29.8	26.2	12.4
87.5°	0.7	1.5	8.0	10.2	7.3	8.0	8.0	8.0	10.2	11.6	8.7
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: P458690

CATALOG NUMBER: GALN-SA2C-735-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2406.7	2351.4	2219.6	2066.7	1969.2	1810.5	1676.5	1579.7	1555.7	1509.1	1522.9
5°	2403.8	2288.8	2020.1	1736.2	1433.4	1207.7	1039.6	907.1	848.8	810.2	783.3
7.5°	2405.2	2225.4	1794.5	1342.4	980.6	759.3	603.5	522.7	468.8	446.2	449.2
10°	2409.6	2154.1	1532.4	994.4	661.7	490.7	395.3	356.7	338.5	335.6	334.9
12.5°	2419.8	2076.2	1282.0	738.2	463.0	356.7	320.3	307.2	301.4	301.4	299.2
15°	2430.7	1990.3	1073.8	548.9	356.7	306.5	289.7	283.2	279.5	279.5	278.8
17.5°	2430.7	1891.3	879.4	425.9	307.2	281.7	268.6	259.9	257.0	257.0	256.2
20°	2415.4	1776.3	706.9	342.9	278.8	258.4	245.3	235.9	232.2	230.8	230.0
22.5°	2362.3	1622.7	562.7	294.8	255.5	238.0	221.3	210.4	207.5	206.0	206.7
25°	2267.6	1449.4	445.5	259.2	234.4	213.3	198.7	190.7	187.8	187.8	188.5
27.5°	2170.1	1268.1	353.1	232.2	208.9	190.0	178.4	173.3	172.5	174.7	175.4
30°	2079.8	1086.1	286.1	210.4	186.4	170.3	162.3	160.9	160.9	161.6	162.3
32.5°	1979.4	926.7	239.5	191.5	168.2	154.3	150.0	150.0	151.4	151.4	152.9
35°	1916.0	789.9	210.4	173.3	154.3	142.7	139.8	140.5	142.7	145.6	147.1
37.5°	1881.8	680.7	191.5	158.7	141.2	133.2	130.3	131.8	136.9	142.0	142.7
40°	1884.7	598.4	176.2	146.3	131.0	122.3	120.1	124.5	129.6	134.7	135.4
42.5°	1916.8	537.2	161.6	131.8	122.3	109.9	109.2	113.6	115.7	120.8	121.6
45°	1954.6	492.8	146.3	116.5	106.3	95.4	96.1	99.7	102.6	110.7	112.1
47.5°	1966.3	462.3	128.9	99.0	87.4	83.7	84.4	86.6	92.5	99.7	100.5
50°	1979.4	443.3	112.1	83.7	74.3	73.5	74.3	75.7	79.3	82.3	81.5
52.5°	2035.4	442.6	98.3	72.8	63.3	64.8	65.5	64.8	61.9	57.5	56.1
54°	2087.8	444.8	91.7	67.7	58.2	60.4	59.7	56.1	48.8	44.4	42.2
55°	2130.1	447.0	88.1	64.1	55.3	56.1	56.8	49.5	40.0	35.7	34.2
57.5°	2213.0	441.9	79.3	56.1	48.8	45.9	45.1	32.8	21.8	18.9	17.5
60°	2171.6	398.9	72.1	48.0	41.5	37.1	30.6	18.2	10.9	8.0	8.0
62.5°	2008.5	338.5	64.1	39.3	34.2	28.4	16.0	10.2	5.1	2.9	2.2
65°	1796.6	284.6	57.5	31.3	26.9	18.2	8.7	6.6	2.2	0.0	0.0
67.5°	1335.8	211.1	48.8	24.8	20.4	11.6	5.8	3.6	0.7	0.0	0.0
70°	618.8	128.9	41.5	18.9	14.6	8.7	4.4	2.2	0.0	0.0	0.0
72.5°	177.6	80.8	34.2	13.8	10.2	7.3	3.6	1.5	0.7	0.0	0.0
75°	61.9	64.8	25.5	10.2	8.0	5.1	2.9	1.5	0.7	0.0	0.0
77.5°	37.1	52.4	16.0	8.7	6.6	4.4	2.9	1.5	0.7	0.7	0.0
80°	21.1	34.9	10.2	7.3	5.8	3.6	2.2	1.5	0.7	0.7	0.0
82.5°	11.6	16.7	8.0	6.6	5.1	3.6	2.2	1.5	0.7	0.7	0.7
85°	9.5	8.7	6.6	5.8	4.4	2.9	2.2	0.7	0.0	0.0	0.0
87.5°	7.3	5.8	5.8	5.8	4.4	2.9	2.2	0.7	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)