

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: P459241

Luminaire Tested: **GALN-SA7B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459241
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-SA7B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 30249 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

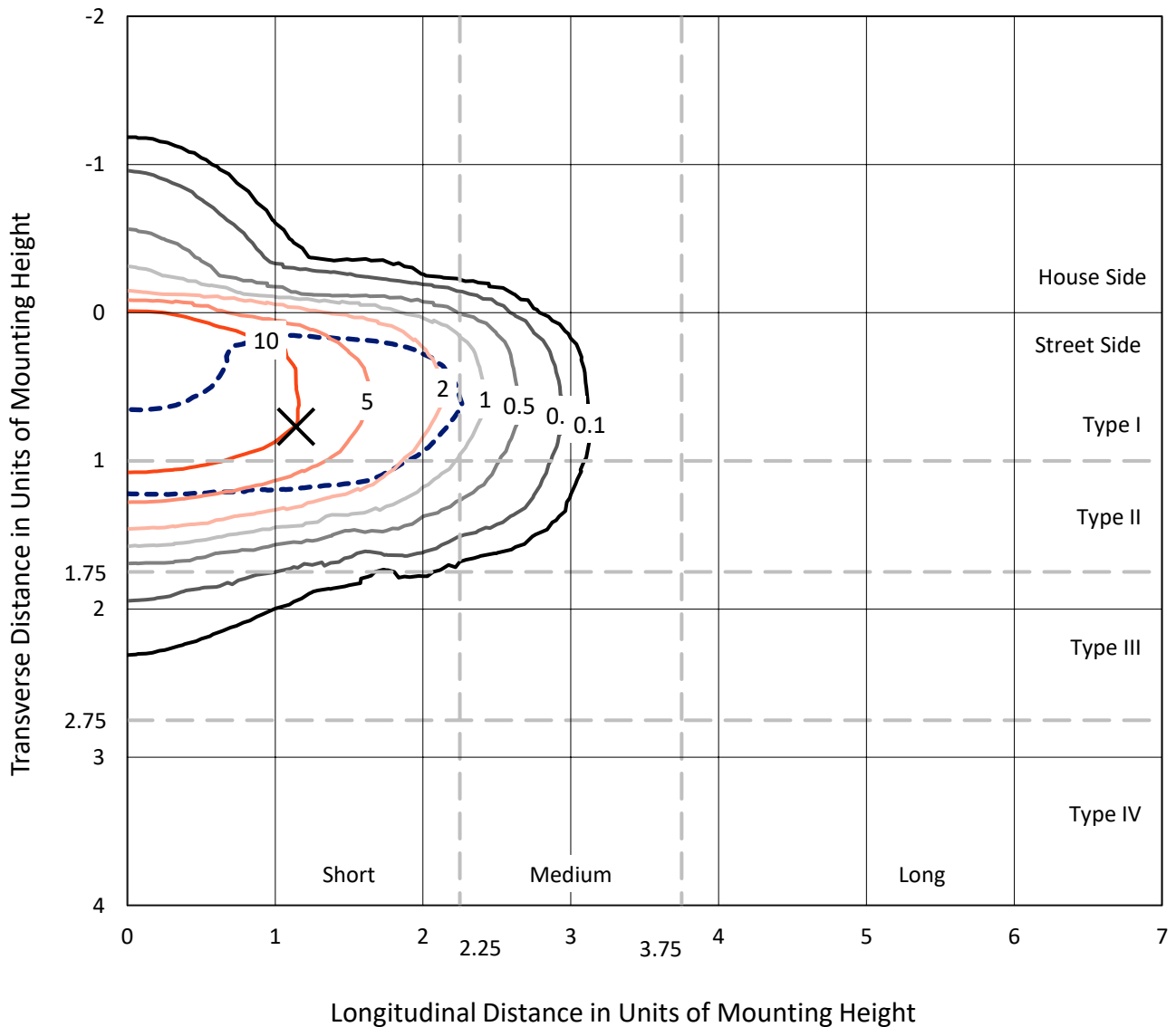
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459241
 CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

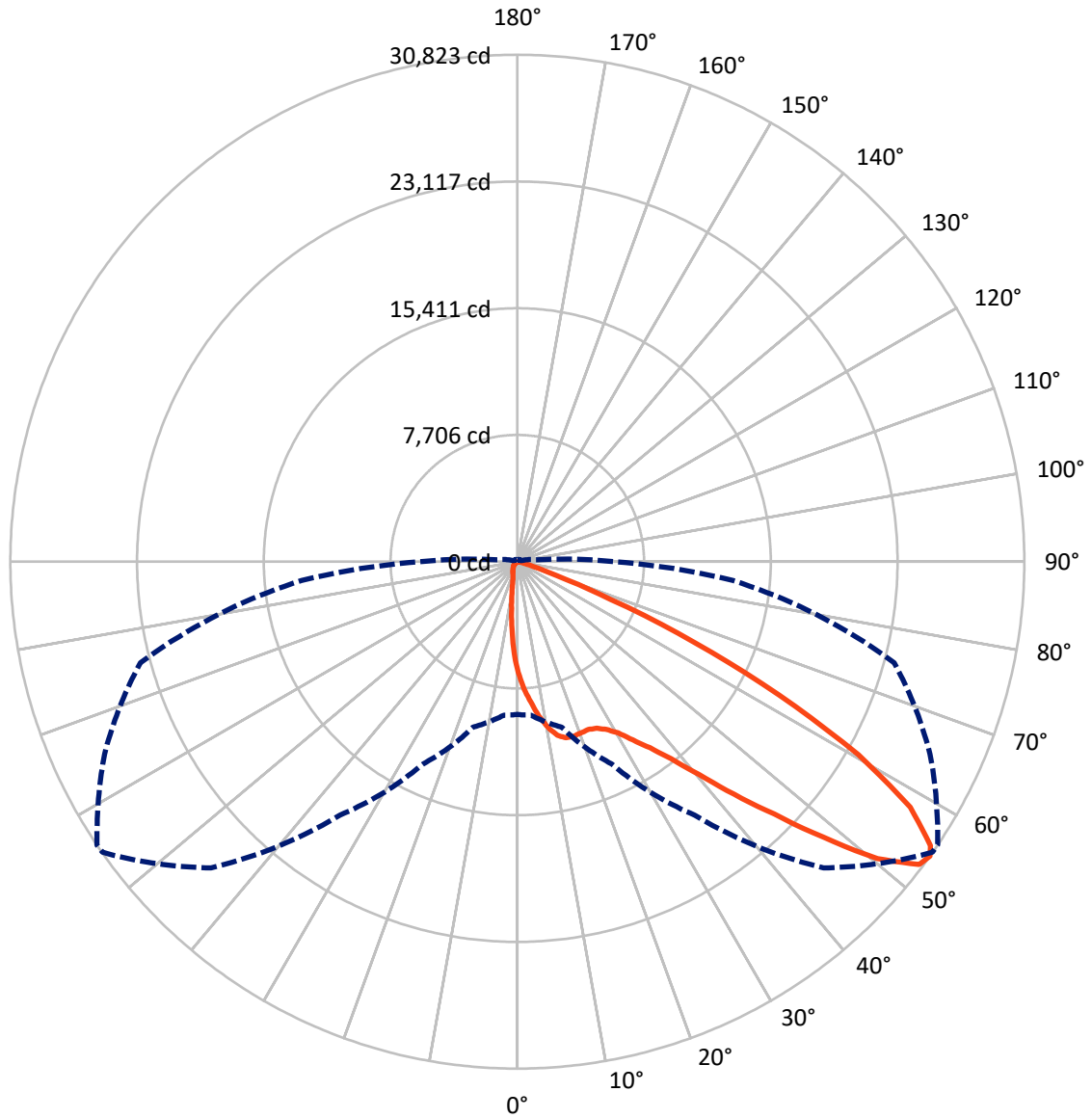
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

REPORT NUMBER: P459241
CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459241

CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.4	0.0	1430.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	28818.6	0.0	28818.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	30249.0	0.0	30249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.9	2.0
10°-20°	1605.4	5.3
20°-30°	2780.4	9.2
30°-40°	4799.4	15.9
40°-50°	8168.8	27.0
50°-60°	8084.1	26.7
60°-70°	3689.7	12.2
70°-80°	473.9	1.6
80°-90°	53.4	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°	30249.0	100.0
0°-180°	30249.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459241

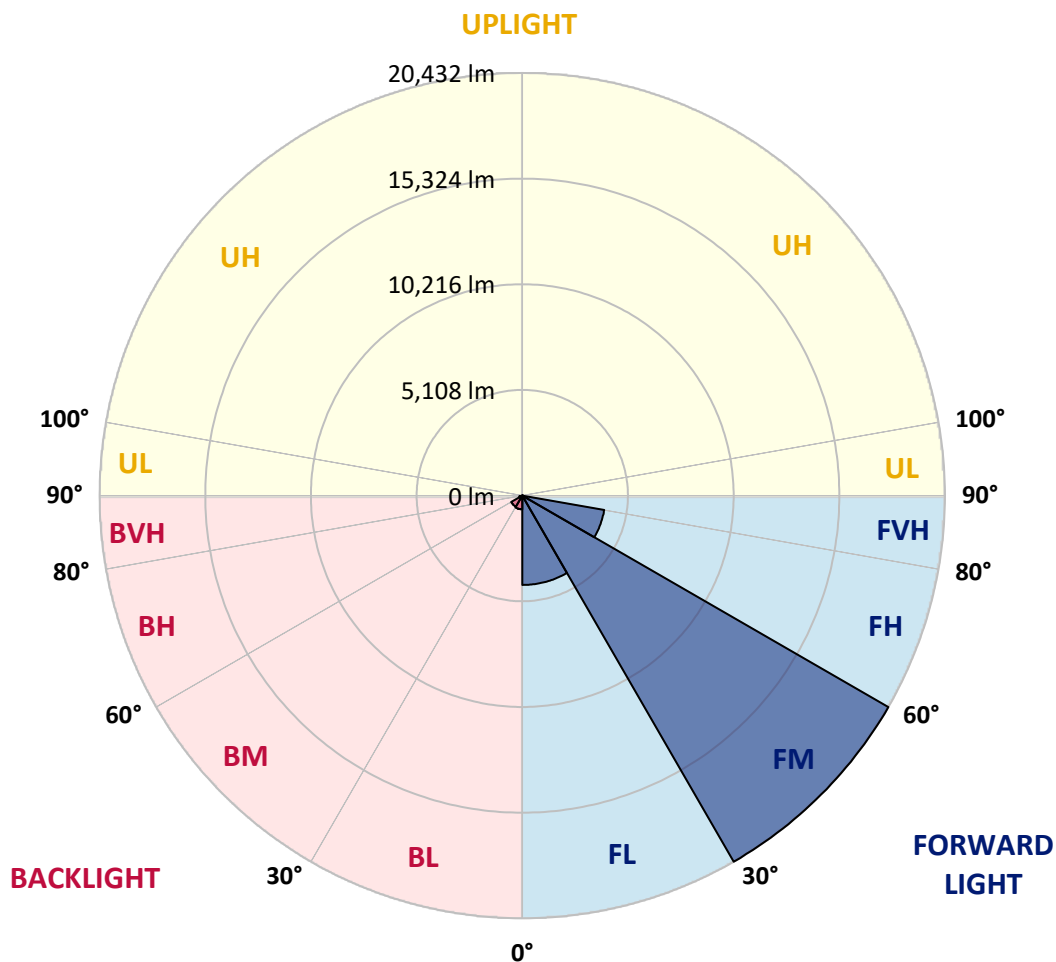
CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4318.2	14.3			
FM	(30°-60°)	20432.4	67.5			
FH	(60°-80°)	4020.4	13.3			G2/5000
FVH	(80°-90°)	47.7	0.2			G1/100
BL	(0°-30°)	661.5	2.2	B2/1000		
BM	(30°-60°)	619.9	2.0	B1/1000		
BH	(60°-80°)	143.2	0.5	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G2

Type II Short





REPORT NUMBER: P459241

CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5
2.5°	8540.9	8481.7	8400.1	8336.8	8187.8	7973.5	7747.0	7747.0	7528.6	7224.5	6914.3
5°	9851.1	9812.3	9732.7	9569.5	9402.1	9102.1	8647.0	8567.4	8177.6	7626.6	7047.0
7.5°	10383.8	10402.1	10406.2	10363.3	10283.8	9987.8	9536.8	9481.7	8859.2	8120.5	7220.5
10°	9873.5	9963.3	10051.1	10228.6	10479.7	10551.1	10296.0	10238.9	9626.6	8620.5	7408.2
12.5°	9114.4	9163.3	9212.3	9491.9	9996.0	10573.5	10840.9	10838.9	10320.5	9118.4	7647.0
15°	8761.3	8804.1	8808.2	8932.7	9369.5	10210.3	11073.6	11104.2	10998.0	9732.7	7904.1
17.5°	8834.8	8869.5	8840.9	8871.5	9100.1	9810.3	11047.0	11149.1	11547.0	10322.5	8136.8
20°	9314.4	9381.7	9271.5	9185.8	9255.2	9704.2	10957.2	11100.1	11934.8	10898.0	8349.0
22.5°	10175.6	10212.3	10073.5	9838.8	9716.4	9926.6	10932.7	11073.6	12265.4	11369.5	8471.5
25°	11132.7	11120.5	10967.4	10704.2	10447.0	10375.6	11094.0	11220.5	12538.9	11794.0	8508.2
27.5°	12089.9	12126.6	11869.5	11542.9	11234.8	11049.1	11455.2	11549.1	12847.0	12277.6	8553.1
30°	13202.1	13143.0	12889.9	12516.4	12163.4	11904.2	12036.8	12063.4	13271.5	12918.5	8671.5
32.5°	14649.1	14485.8	14202.1	13549.1	13296.0	12857.2	12889.9	12922.5	13787.9	13553.2	8814.4
35°	16612.4	16604.2	16049.1	15169.5	14553.2	14008.3	13865.4	13891.9	14569.5	14496.0	9130.7
37.5°	18975.7	19008.3	18375.6	17489.9	16355.2	15489.9	15196.0	15200.1	15757.3	15798.1	9612.3
40°	20900.2	20985.9	20608.3	20010.4	18889.9	17536.9	17043.0	16998.1	17426.7	17375.6	10300.1
42.5°	21728.7	21808.3	21949.1	22157.3	21541.0	20424.6	19259.3	19320.6	19451.2	19094.0	11071.5
45°	21322.6	21449.1	22002.2	23287.9	23867.5	23492.0	22102.2	21887.9	21334.9	20961.4	11847.0
47.5°	19630.8	19938.9	20863.4	23004.3	25032.8	26302.2	25310.4	25026.7	23220.6	22324.7	12340.9
50°	16849.1	16867.5	18155.2	20892.0	24428.8	28075.7	28585.9	28373.7	24977.7	23090.0	12589.9
52.5°	12214.4	12616.4	13796.0	16965.4	21812.4	27806.3	30673.7	30585.9	26790.0	23481.8	12949.1
54°	9285.8	9363.3	10412.3	13557.2	18806.3	26326.7	30802.3	30822.7	27690.0	23718.5	13161.3
55°	7612.3	7426.6	8528.6	11549.1	16755.2	25018.6	30381.9	30479.8	28094.1	23841.0	13318.5
57.5°	3608.2	3610.2	4453.1	6091.9	10494.0	19426.7	27812.5	28159.4	28139.0	24051.2	13802.1
60°	1826.5	1838.8	2024.5	2812.3	5183.7	12914.4	22996.1	23822.6	25973.7	24081.8	13961.3
62.5°	1277.6	1263.3	1232.7	1353.1	2181.6	6563.3	17120.5	17838.9	22067.5	22916.5	13455.2
65°	1093.9	1063.3	977.6	959.2	1102.0	2614.3	10663.3	11834.8	16849.1	19843.0	12014.4
67.5°	934.7	922.5	844.9	798.0	779.6	1138.8	5502.1	6118.4	11516.4	14263.4	9100.1
70°	793.9	787.8	740.8	681.6	630.6	681.6	2040.8	2528.6	6418.4	7679.6	4293.9
72.5°	644.9	651.0	659.2	583.7	530.6	483.7	871.4	1014.3	2685.7	2744.9	1502.1
75°	565.3	559.2	559.2	508.2	442.9	359.2	479.6	516.3	822.5	763.3	349.0
77.5°	398.0	383.7	449.0	418.4	369.4	255.1	273.5	289.8	340.8	291.8	163.3
80°	275.5	275.5	287.8	375.5	332.7	185.7	167.3	179.6	202.0	173.5	93.9
82.5°	155.1	159.2	187.8	200.0	193.9	124.5	110.2	112.2	134.7	118.4	59.2
85°	18.4	30.6	108.2	106.1	79.6	55.1	61.2	63.3	83.7	73.5	34.7
87.5°	2.0	4.1	22.4	28.6	20.4	22.4	22.4	22.4	28.6	32.7	24.5
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: P459241
 CATALOG NUMBER: GALN-SA7B-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5	6720.5
2.5°	6747.0	6591.9	6222.5	5793.9	5520.4	5075.5	4700.0	4428.6	4361.3	4230.6	4269.4
5°	6738.8	6416.4	5663.3	4867.4	4018.4	3385.7	2914.3	2542.9	2379.6	2271.4	2195.9
7.5°	6742.9	6238.8	5030.6	3763.3	2749.0	2128.6	1691.8	1465.3	1314.3	1251.0	1259.2
10°	6755.2	6038.8	4296.0	2787.8	1855.1	1375.5	1108.2	1000.0	949.0	940.8	938.8
12.5°	6783.7	5820.5	3593.9	2069.4	1298.0	1000.0	898.0	861.2	844.9	844.9	838.8
15°	6814.3	5579.6	3010.2	1538.8	1000.0	859.2	812.3	793.9	783.7	783.7	781.6
17.5°	6814.3	5302.1	2465.3	1193.9	861.2	789.8	753.1	728.6	720.4	720.4	718.4
20°	6771.5	4979.6	1981.6	961.2	781.6	724.5	687.8	661.2	651.0	646.9	644.9
22.5°	6622.5	4549.0	1577.6	826.5	716.3	667.4	620.4	589.8	581.6	577.6	579.6
25°	6357.2	4063.3	1249.0	726.5	657.1	598.0	557.1	534.7	526.5	526.5	528.6
27.5°	6083.7	3555.1	989.8	651.0	585.7	532.7	500.0	485.7	483.7	489.8	491.8
30°	5830.7	3044.9	802.0	589.8	522.5	477.6	455.1	451.0	451.0	453.1	455.1
32.5°	5549.0	2598.0	671.4	536.7	471.4	432.7	420.4	420.4	424.5	424.5	428.6
35°	5371.5	2214.3	589.8	485.7	432.7	400.0	391.8	393.9	400.0	408.2	412.2
37.5°	5275.5	1908.2	536.7	444.9	395.9	373.5	365.3	369.4	383.7	398.0	400.0
40°	5283.7	1677.6	493.9	410.2	367.3	342.9	336.7	349.0	363.3	377.6	379.6
42.5°	5373.5	1506.1	453.1	369.4	342.9	308.2	306.1	318.4	324.5	338.8	340.8
45°	5479.6	1381.6	410.2	326.5	298.0	267.3	269.4	279.6	287.8	310.2	314.3
47.5°	5512.3	1295.9	361.2	277.6	244.9	234.7	236.7	242.9	259.2	279.6	281.6
50°	5549.0	1242.9	314.3	234.7	208.2	206.1	208.2	212.2	222.5	230.6	228.6
52.5°	5706.2	1240.8	275.5	204.1	177.6	181.6	183.7	181.6	173.5	161.2	157.1
54°	5853.1	1246.9	257.1	189.8	163.3	169.4	167.3	157.1	136.7	124.5	118.4
55°	5971.5	1253.1	246.9	179.6	155.1	157.1	159.2	138.8	112.2	100.0	95.9
57.5°	6204.1	1238.8	222.5	157.1	136.7	128.6	126.5	91.8	61.2	53.1	49.0
60°	6087.8	1118.4	202.0	134.7	116.3	104.1	85.7	51.0	30.6	22.4	22.4
62.5°	5630.7	949.0	179.6	110.2	95.9	79.6	44.9	28.6	14.3	8.2	6.1
65°	5036.8	798.0	161.2	87.8	75.5	51.0	24.5	18.4	6.1	0.0	0.0
67.5°	3744.9	591.8	136.7	69.4	57.1	32.7	16.3	10.2	2.0	0.0	0.0
70°	1734.7	361.2	116.3	53.1	40.8	24.5	12.2	6.1	0.0	0.0	0.0
72.5°	498.0	226.5	95.9	38.8	28.6	20.4	10.2	4.1	2.0	0.0	0.0
75°	173.5	181.6	71.4	28.6	22.4	14.3	8.2	4.1	2.0	0.0	0.0
77.5°	104.1	146.9	44.9	24.5	18.4	12.2	8.2	4.1	2.0	2.0	0.0
80°	59.2	98.0	28.6	20.4	16.3	10.2	6.1	4.1	2.0	2.0	0.0
82.5°	32.7	46.9	22.4	18.4	14.3	10.2	6.1	4.1	2.0	2.0	2.0
85°	26.5	24.5	18.4	16.3	12.2	8.2	6.1	2.0	0.0	0.0	0.0
87.5°	20.4	16.3	16.3	16.3	12.2	8.2	6.1	2.0	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)