

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: P528383

Luminaire Tested: **GALN-SA3C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13094 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

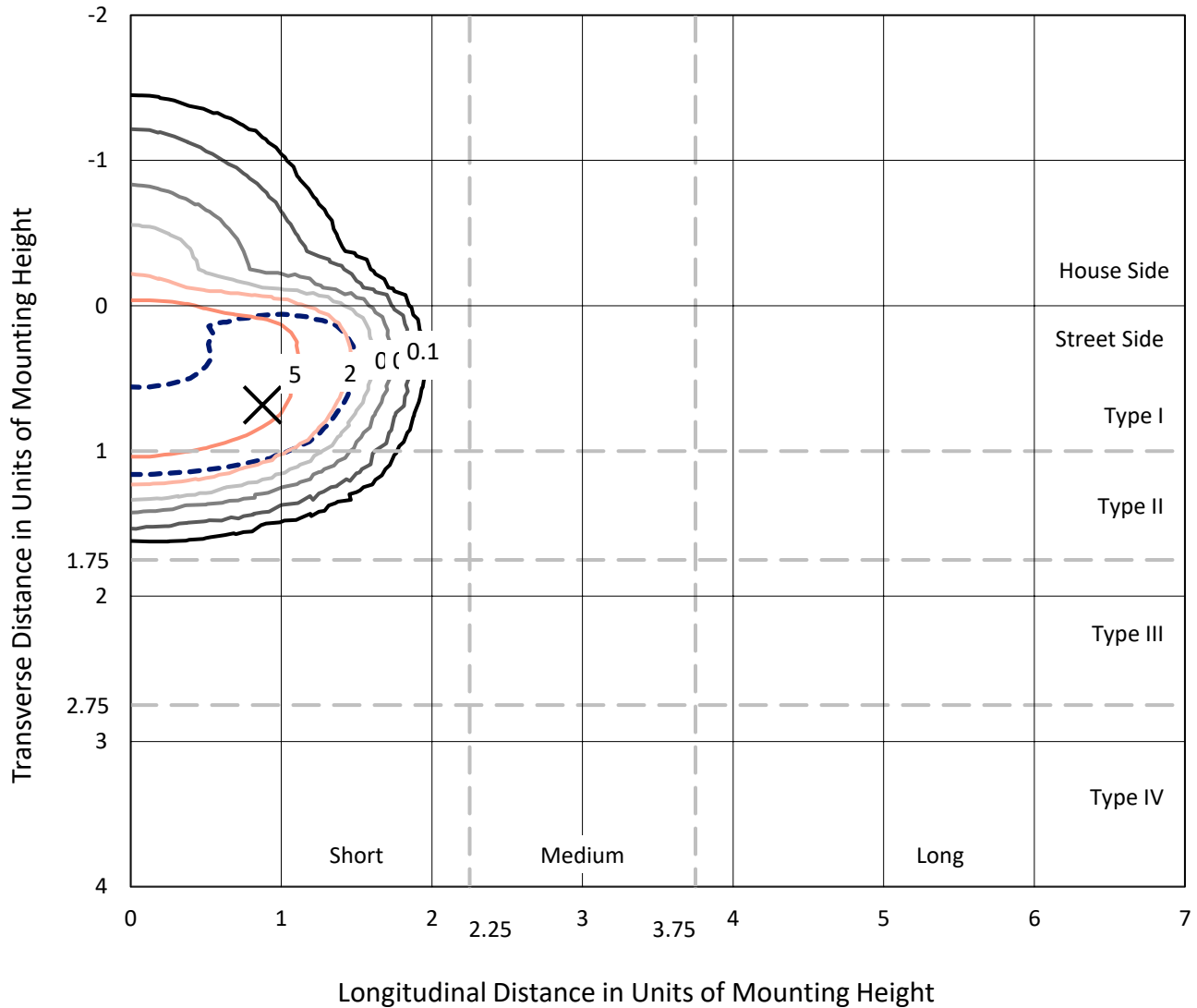
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528383
 CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

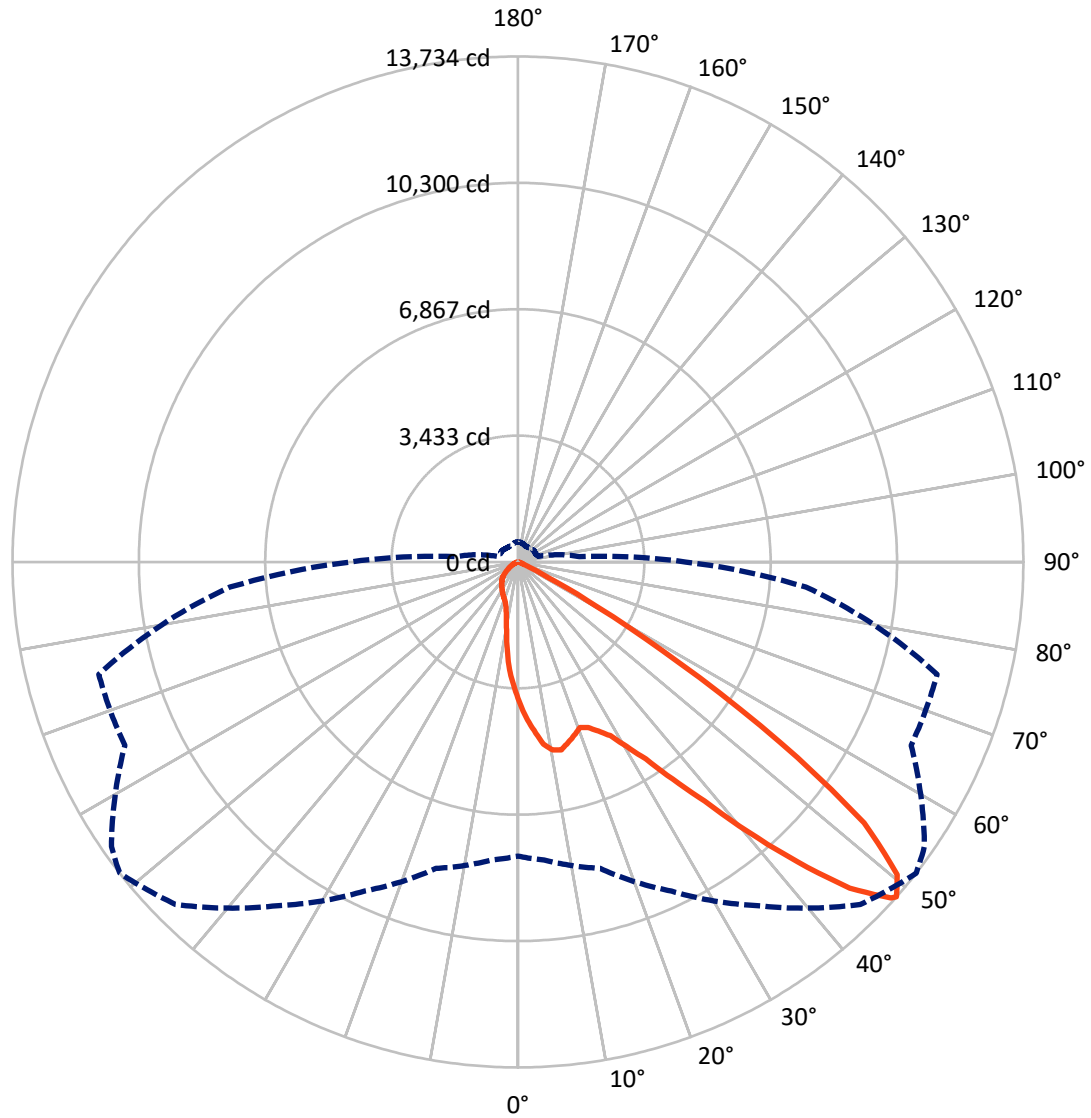
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P528383
CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P528383

CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1594.3	0.0	1594.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11499.7	0.0	11499.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	13094.0	0.0	13094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	2.6
10°-20°	904.5	6.9
20°-30°	1544.3	11.8
30°-40°	2843.9	21.7
40°-50°	4416.5	33.7
50°-60°	2658.0	20.3
60°-70°	307.4	2.3
70°-80°	59.5	0.5
80°-90°	13.8	0.1
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°	13094.0	100.0
0°-180°	13094.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528383

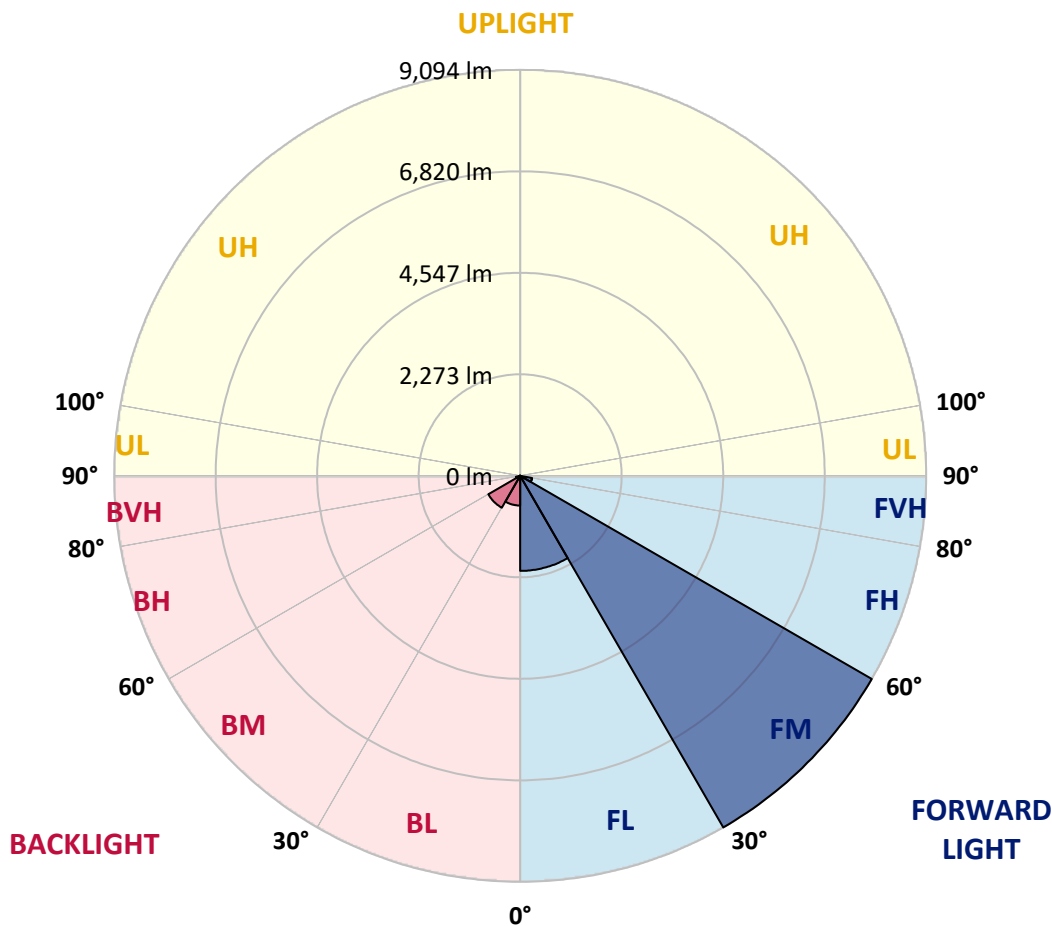
CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.9	16.3			
FM (30°-60°)	9093.5	69.4			
FH (60°-80°)	270.7	2.1			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	666.0	5.1	B2/1000		
BM (30°-60°)	824.9	6.3	B1/1000		
BH (60°-80°)	96.2	0.7	B0/110		G0/110
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





REPORT NUMBER: P528383

CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3
2.5°	4583.0	4478.0	4487.6	4418.9	4378.8	4313.9	4226.1	4208.9	4113.5	3983.7	3852.0
5°	4995.3	4970.5	5003.0	4903.7	4907.5	4800.6	4594.5	4598.3	4378.8	4166.9	3962.7
7.5°	5022.0	4964.8	4997.2	5085.0	5136.6	5117.5	5001.1	4899.9	4691.8	4380.7	4082.9
10°	4497.1	4605.9	4640.3	4785.4	4991.5	5209.1	5195.7	5201.5	5027.8	4621.2	4186.0
12.5°	4182.2	4109.6	4226.1	4313.9	4625.0	5046.9	5239.7	5281.6	5295.0	4854.1	4289.1
15°	4039.0	4039.0	4058.1	4082.9	4308.2	4697.6	5090.8	5212.9	5501.2	5159.5	4451.3
17.5°	4128.7	4124.9	4151.6	4100.1	4184.1	4483.8	4953.3	5092.7	5732.1	5459.2	4579.2
20°	4401.7	4415.1	4397.9	4249.0	4254.7	4479.9	4800.6	5020.1	5888.6	5718.8	4749.1
22.5°	4781.5	4789.2	4691.8	4529.6	4481.9	4592.6	4888.4	5056.4	6014.6	6029.9	4800.6
25°	5220.6	5190.0	5170.9	4941.9	4796.8	4892.3	5086.9	5184.3	6092.9	6297.1	4947.6
27.5°	5829.5	5768.4	5652.0	5447.7	5340.8	5205.3	5344.6	5505.0	6316.2	6671.3	5107.9
30°	6728.5	6675.1	6447.9	6184.5	5903.9	5770.3	5814.2	5902.0	6719.0	7104.5	5319.8
32.5°	8081.9	7969.2	7640.9	7138.9	6757.1	6388.7	6377.3	6470.8	7079.7	7703.9	5571.8
35°	9572.6	9538.3	9055.3	8538.1	7799.4	7230.5	7240.1	7289.7	7770.7	8490.3	5902.0
37.5°	10563.3	10752.3	10444.9	9889.5	9269.1	8456.0	8249.8	8267.0	8719.4	9421.8	6497.5
40°	11328.7	11168.4	11204.6	11074.8	10651.1	10097.5	9641.3	9551.6	9817.0	10452.6	7089.3
42.5°	10994.7	11002.3	11225.6	11533.0	11637.9	11597.9	11132.1	10962.2	10756.1	11296.3	7652.4
45°	10051.7	10248.3	10538.5	11351.6	12065.5	12735.5	12643.9	12361.4	11405.1	11964.3	7976.9
47.5°	8547.6	8540.0	9015.3	10072.7	11658.9	13228.0	13644.1	13445.6	11865.1	11889.9	7910.1
48°	7992.1	8129.6	8620.1	9864.7	11401.3	13155.4	13733.8	13483.8	11786.8	11790.6	7852.8
50°	5907.7	5882.9	6493.7	8020.8	10183.4	12361.4	13355.9	13550.6	11784.9	11288.6	7451.9
52.5°	3120.9	3227.8	3672.5	5043.0	7200.0	10116.6	11781.1	12084.6	11368.8	10467.9	6875.5
55°	1326.6	1198.7	1540.4	2277.2	4050.5	6759.1	8643.0	9318.8	9612.7	9263.4	6014.6
57.5°	473.4	517.3	595.5	857.1	1702.6	3699.3	5153.8	5678.7	6659.8	6797.2	4098.2
60°	303.5	309.2	334.0	393.2	639.4	1425.9	2445.2	2863.2	3307.9	3414.8	1912.6
62.5°	234.8	236.7	248.1	257.7	303.5	553.6	918.1	1088.0	1130.0	971.6	502.0
65°	196.6	198.5	202.3	202.3	215.7	259.6	320.7	353.1	343.6	339.8	284.4
67.5°	150.8	154.6	162.2	162.2	169.9	158.4	177.5	189.0	213.8	259.6	242.4
70°	118.3	120.3	126.0	129.8	129.8	114.5	127.9	139.3	156.5	192.8	190.9
72.5°	91.6	95.4	99.3	99.3	93.5	78.3	91.6	101.2	112.6	133.6	129.8
75°	70.6	70.6	72.5	59.2	45.8	40.1	55.4	66.8	84.0	87.8	72.5
77.5°	19.1	21.0	19.1	17.2	19.1	28.6	36.3	42.0	53.4	53.4	47.7
80°	0.0	1.9	5.7	11.5	19.1	26.7	32.4	36.3	42.0	45.8	43.9
82.5°	0.0	1.9	5.7	11.5	17.2	21.0	28.6	30.5	34.4	40.1	40.1
85°	0.0	1.9	3.8	7.6	11.5	13.4	13.4	11.5	11.5	9.5	7.6
87.5°	0.0	0.0	1.9	3.8	3.8	5.7	5.7	5.7	5.7	5.7	5.7
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: P528383

CATALOG NUMBER: GALN-SA3C-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3
2.5°	3800.4	3741.2	3651.5	3510.3	3374.8	3287.0	3203.0	3109.4	3057.9	3054.1	3025.4
5°	3846.2	3712.6	3498.8	3256.4	2996.8	2773.5	2548.2	2401.3	2269.6	2197.0	2183.7
7.5°	3871.0	3697.3	3351.9	2945.3	2502.4	2137.9	1885.9	1700.7	1628.2	1574.8	1572.8
10°	3922.6	3670.6	3132.3	2533.0	1985.2	1616.8	1443.1	1359.1	1319.0	1303.7	1280.8
12.5°	3960.8	3621.0	2907.1	2109.2	1569.0	1340.0	1263.6	1244.5	1246.4	1254.1	1244.5
15°	4014.2	3577.1	2603.6	1731.3	1317.1	1206.4	1206.4	1210.2	1236.9	1240.7	1238.8
17.5°	4010.4	3491.2	2290.6	1425.9	1164.4	1149.1	1154.8	1191.1	1208.3	1214.0	1200.6
20°	4056.2	3411.0	1968.0	1217.8	1078.5	1101.4	1139.6	1149.1	1170.1	1173.9	1158.6
22.5°	4042.8	3210.6	1668.3	1053.7	1013.6	1057.5	1095.7	1107.1	1101.4	1089.9	1088.0
25°	4018.0	3038.8	1393.4	944.9	965.9	1013.6	1049.8	1028.8	1017.4	1019.3	1021.2
27.5°	3974.1	2821.2	1166.3	868.5	901.0	971.6	969.7	962.0	973.5	963.9	973.5
30°	3966.5	2603.6	979.2	799.8	853.2	904.8	908.6	921.9	935.3	918.1	935.3
32.5°	3977.9	2365.0	845.6	757.8	824.6	826.5	868.5	881.9	872.3	834.1	838.0
35°	4065.7	2181.8	748.2	734.9	778.8	780.7	820.8	803.6	761.6	738.7	752.1
37.5°	4250.9	2029.1	702.4	713.9	717.7	742.5	744.4	710.1	713.9	712.0	719.6
40°	4487.6	1912.6	670.0	694.8	691.0	708.2	639.4	658.5	675.7	681.4	685.3
42.5°	4649.8	1828.6	649.0	664.3	656.6	626.1	587.9	607.0	620.4	641.4	645.2
45°	4722.4	1761.8	624.2	610.8	610.8	555.5	540.2	544.0	574.5	597.5	593.6
47.5°	4604.0	1696.9	580.3	540.2	553.6	507.7	490.6	490.6	523.0	551.6	545.9
48°	4558.2	1670.2	582.2	524.9	534.5	500.1	482.9	479.1	515.4	542.1	542.1
50°	4331.1	1570.9	532.6	482.9	463.8	460.0	448.6	452.4	475.3	500.1	500.1
52.5°	3888.2	1357.2	450.5	414.2	379.9	402.8	408.5	400.8	412.3	435.2	433.3
55°	3245.0	1042.2	360.8	343.6	316.9	341.7	353.1	343.6	332.1	349.3	349.3
57.5°	2078.7	561.2	288.2	292.0	265.3	290.1	299.7	276.8	255.8	269.1	267.2
60°	937.2	335.9	236.7	231.0	213.8	242.4	257.7	231.0	202.3	211.9	221.4
62.5°	351.2	238.6	179.4	175.6	171.8	198.5	206.2	185.2	156.5	162.2	164.2
65°	257.7	210.0	143.2	129.8	137.4	156.5	152.7	131.7	112.6	112.6	116.4
67.5°	219.5	183.2	116.4	101.2	101.2	103.1	95.4	84.0	78.3	82.1	85.9
70°	171.8	145.1	91.6	78.3	70.6	63.0	55.4	53.4	47.7	53.4	51.5
72.5°	110.7	97.3	70.6	59.2	53.4	43.9	36.3	34.4	28.6	26.7	26.7
75°	59.2	59.2	55.4	47.7	42.0	34.4	28.6	22.9	15.3	11.5	11.5
77.5°	42.0	45.8	49.6	45.8	38.2	28.6	22.9	15.3	7.6	3.8	3.8
80°	40.1	45.8	49.6	43.9	38.2	28.6	21.0	11.5	5.7	1.9	1.9
82.5°	36.3	42.0	45.8	40.1	34.4	24.8	19.1	11.5	5.7	1.9	1.9
85°	7.6	9.5	11.5	11.5	13.4	17.2	13.4	9.5	3.8	1.9	1.9
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	1.9
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)