

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: P452513

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452513
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-SA3C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14380 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

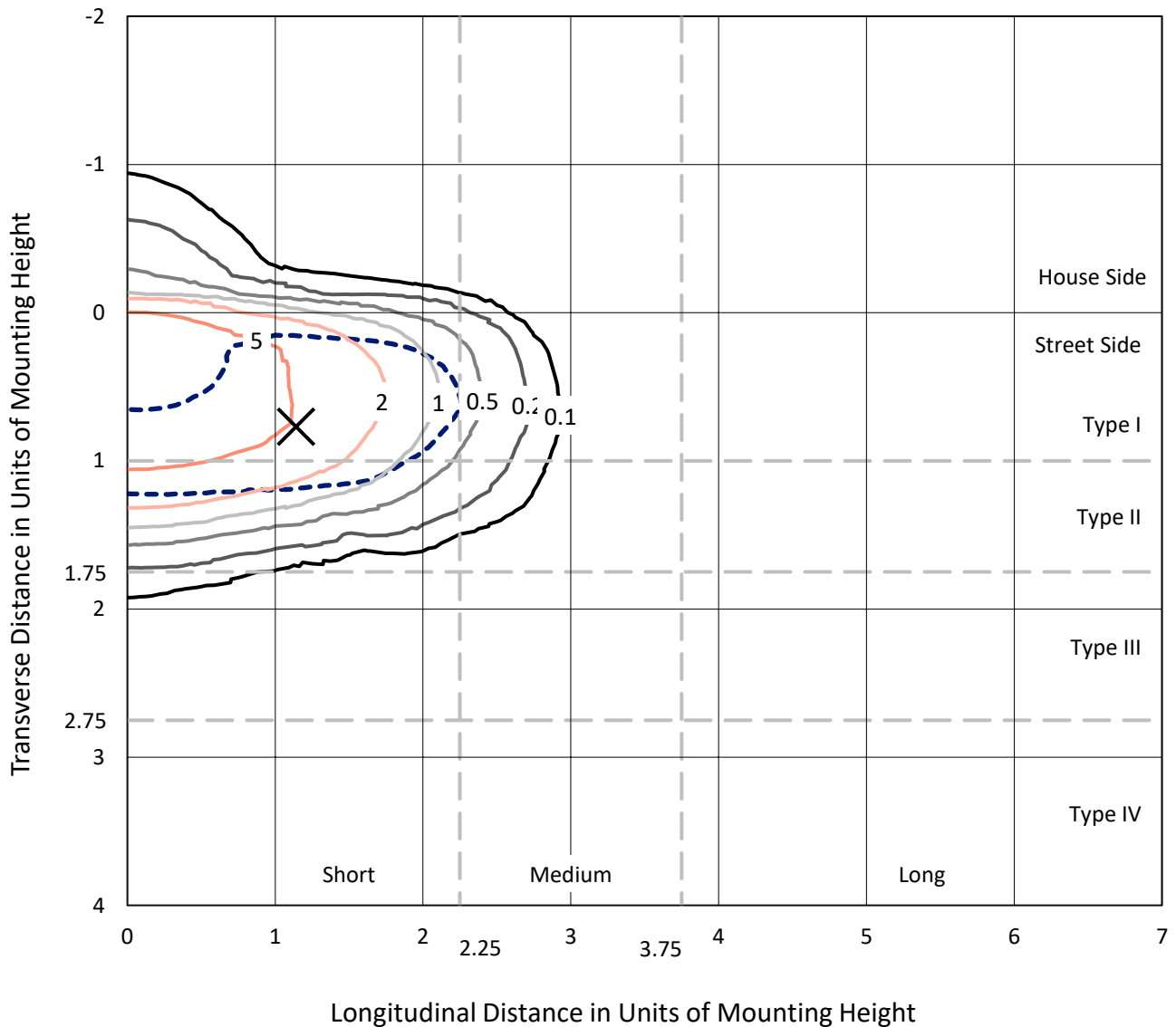
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452513
 CATALOG NUMBER: GALN-SA3C-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

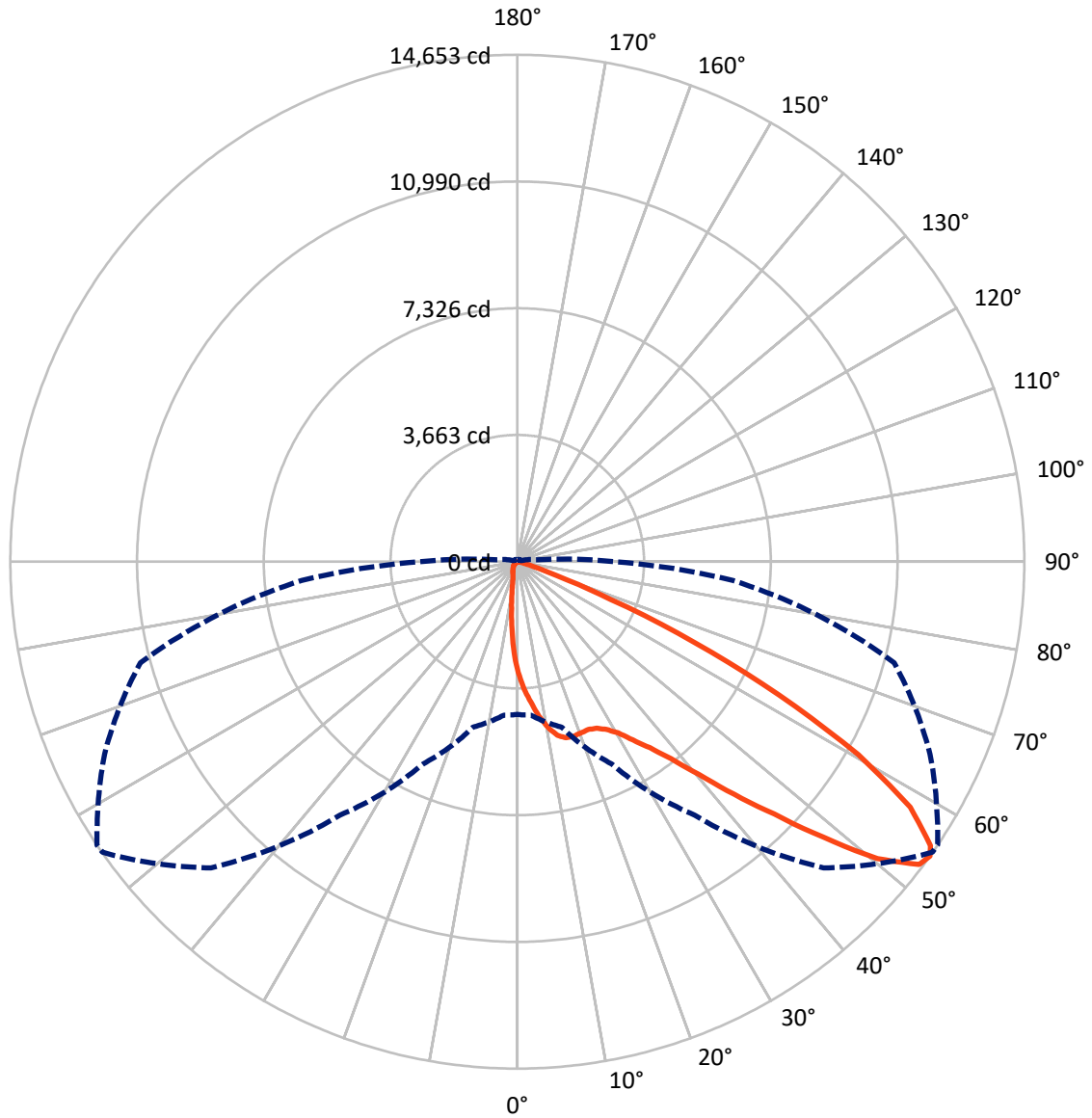
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

REPORT NUMBER: P452513
CATALOG NUMBER: GALN-SA3C-727-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452513

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.0	0.0	680.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13700.0	0.0	13700.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	14380.0	0.0	14380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	2.0
10°-20°	763.2	5.3
20°-30°	1321.8	9.2
30°-40°	2281.6	15.9
40°-50°	3883.4	27.0
50°-60°	3843.1	26.7
60°-70°	1754.1	12.2
70°-80°	225.3	1.6
80°-90°	25.4	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°	14380.0	100.0
0°-180°	14380.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452513

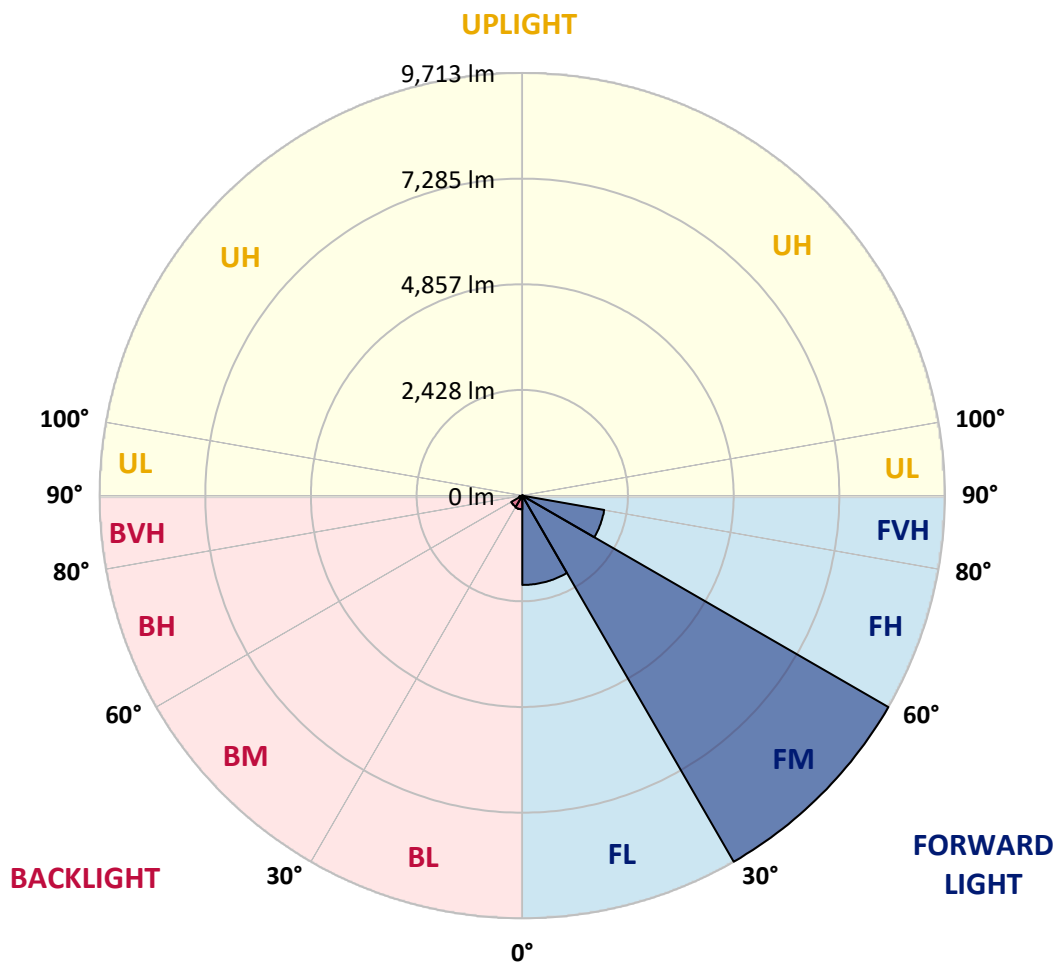
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.8	14.3			
FM (30°-60°)	9713.3	67.5			
FH (60°-80°)	1911.2	13.3			G2/5000
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	314.5	2.2	B1/500		
BM (30°-60°)	294.7	2.0	B1/1000		
BH (60°-80°)	68.1	0.5	B0/110		G0/110
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P452513

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8
2.5°	4060.2	4032.1	3993.3	3963.2	3892.4	3790.5	3682.8	3682.8	3579.0	3434.5	3287.0
5°	4683.1	4664.7	4626.8	4549.2	4469.6	4327.0	4110.7	4072.8	3887.5	3625.6	3350.1
7.5°	4936.3	4945.0	4947.0	4926.6	4888.8	4748.1	4533.7	4507.5	4211.6	3860.4	3432.5
10°	4693.8	4736.4	4778.2	4862.6	4981.9	5015.9	4894.6	4867.4	4576.4	4098.1	3521.8
12.5°	4332.9	4356.1	4379.4	4512.3	4752.0	5026.5	5153.6	5152.7	4906.2	4334.8	3635.3
15°	4165.0	4185.4	4187.3	4246.5	4454.1	4853.8	5264.2	5278.8	5228.3	4626.8	3757.5
17.5°	4199.9	4216.4	4202.8	4217.4	4326.1	4663.7	5251.6	5300.1	5489.3	4907.2	3868.1
20°	4427.9	4459.9	4407.6	4366.8	4399.8	4613.2	5208.9	5276.8	5673.6	5180.8	3969.0
22.5°	4837.3	4854.8	4788.8	4677.3	4619.1	4719.0	5197.3	5264.2	5830.8	5404.9	4027.2
25°	5292.4	5286.5	5213.8	5088.6	4966.4	4932.4	5273.9	5334.1	5960.8	5606.7	4044.7
27.5°	5747.4	5764.8	5642.6	5487.4	5340.9	5252.6	5445.7	5490.3	6107.3	5836.6	4066.0
30°	6276.1	6248.0	6127.7	5950.2	5782.3	5659.1	5722.2	5734.8	6309.1	6141.3	4122.3
32.5°	6964.0	6886.4	6751.5	6441.1	6320.8	6112.2	6127.7	6143.2	6554.6	6443.0	4190.2
35°	7897.3	7893.4	7629.5	7211.4	6918.4	6659.4	6591.4	6604.1	6926.2	6891.2	4340.6
37.5°	9020.8	9036.3	8735.6	8314.5	7775.1	7363.7	7224.0	7225.9	7490.8	7510.2	4569.6
40°	9935.7	9976.4	9796.9	9512.7	8980.0	8336.8	8102.0	8080.7	8284.4	8260.2	4896.5
42.5°	10329.6	10367.4	10434.4	10533.3	10240.3	9709.6	9155.6	9184.8	9246.8	9077.1	5263.3
45°	10136.5	10196.7	10459.6	11070.8	11346.3	11167.8	10507.1	10405.2	10142.3	9964.8	5631.9
47.5°	9332.2	9478.7	9918.2	10935.9	11900.3	12503.8	12032.2	11897.4	11038.8	10612.9	5866.7
50°	8009.9	8018.6	8630.8	9931.8	11613.1	13346.8	13589.4	13488.5	11874.1	10976.7	5985.1
52.5°	5806.6	5997.7	6558.5	8065.2	10369.3	13218.8	14581.9	14540.2	12735.6	11163.0	6155.8
54°	4414.3	4451.2	4949.9	6444.9	8940.3	12515.4	14643.0	14652.7	13163.5	11275.5	6256.7
55°	3618.8	3530.5	4054.4	5490.3	7965.2	11893.5	14443.2	14489.7	13355.6	11333.7	6331.4
57.5°	1715.3	1716.3	2116.9	2896.0	4988.7	9235.2	13221.7	13386.6	13376.9	11433.6	6561.4
60°	868.3	874.1	962.4	1336.9	2464.3	6139.3	10932.1	11325.0	12347.6	11448.2	6637.0
62.5°	607.3	600.5	586.0	643.2	1037.1	3120.1	8138.9	8480.4	10490.6	10894.2	6396.4
65°	520.0	505.5	464.7	456.0	523.9	1242.8	5069.2	5626.1	8009.9	9433.1	5711.5
67.5°	444.3	438.5	401.7	379.3	370.6	541.4	2615.6	2908.6	5474.8	6780.6	4326.1
70°	377.4	374.5	352.2	324.0	299.8	324.0	970.2	1202.1	3051.2	3650.8	2041.3
72.5°	306.6	309.5	313.4	277.5	252.2	229.9	414.3	482.2	1276.8	1304.9	714.1
75°	268.7	265.8	265.8	241.6	210.5	170.8	228.0	245.5	391.0	362.8	165.9
77.5°	189.2	182.4	213.4	198.9	175.6	121.3	130.0	137.8	162.0	138.7	77.6
80°	131.0	131.0	136.8	178.5	158.1	88.3	79.6	85.4	96.0	82.5	44.6
82.5°	73.7	75.7	89.3	95.1	92.2	59.2	52.4	53.4	64.0	56.3	28.1
85°	8.7	14.6	51.4	50.4	37.8	26.2	29.1	30.1	39.8	34.9	16.5
87.5°	1.0	1.9	10.7	13.6	9.7	10.7	10.7	10.7	13.6	15.5	11.6
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: P452513

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8	3194.8
2.5°	3207.4	3133.7	2958.1	2754.4	2624.4	2412.9	2234.3	2105.3	2073.3	2011.2	2029.6
5°	3203.6	3050.3	2692.3	2313.9	1910.3	1609.5	1385.4	1208.9	1131.2	1079.8	1043.9
7.5°	3205.5	2965.9	2391.5	1789.0	1306.8	1011.9	804.3	696.6	624.8	594.7	598.6
10°	3211.3	2870.8	2042.2	1325.3	881.9	653.9	526.8	475.4	451.1	447.3	446.3
12.5°	3224.9	2767.0	1708.5	983.8	617.0	475.4	426.9	409.4	401.7	401.7	398.7
15°	3239.5	2652.5	1431.0	731.5	475.4	408.4	386.1	377.4	372.6	372.6	371.6
17.5°	3239.5	2520.5	1172.0	567.6	409.4	375.5	358.0	346.4	342.5	342.5	341.5
20°	3219.1	2367.3	942.1	457.0	371.6	344.4	327.0	314.3	309.5	307.5	306.6
22.5°	3148.3	2162.5	750.0	392.9	340.5	317.3	294.9	280.4	276.5	274.6	275.5
25°	3022.1	1931.6	593.8	345.4	312.4	284.3	264.9	254.2	250.3	250.3	251.3
27.5°	2892.1	1690.1	470.5	309.5	278.4	253.2	237.7	230.9	229.9	232.8	233.8
30°	2771.8	1447.5	381.3	280.4	248.4	227.0	216.4	214.4	214.4	215.4	216.4
32.5°	2637.9	1235.0	319.2	255.2	224.1	205.7	199.9	199.9	201.8	201.8	203.7
35°	2553.5	1052.7	280.4	230.9	205.7	190.2	186.3	187.2	190.2	194.0	196.0
37.5°	2507.9	907.1	255.2	211.5	188.2	177.5	173.7	175.6	182.4	189.2	190.2
40°	2511.8	797.5	234.8	195.0	174.6	163.0	160.1	165.9	172.7	179.5	180.5
42.5°	2554.5	716.0	215.4	175.6	163.0	146.5	145.5	151.3	154.3	161.1	162.0
45°	2604.9	656.8	195.0	155.2	141.6	127.1	128.1	132.9	136.8	147.5	149.4
47.5°	2620.5	616.1	171.7	131.9	116.4	111.6	112.5	115.5	123.2	132.9	133.9
50°	2637.9	590.8	149.4	111.6	99.0	98.0	99.0	100.9	105.8	109.6	108.7
52.5°	2712.6	589.9	131.0	97.0	84.4	86.3	87.3	86.3	82.5	76.6	74.7
54°	2782.5	592.8	122.2	90.2	77.6	80.5	79.6	74.7	65.0	59.2	56.3
55°	2838.8	595.7	117.4	85.4	73.7	74.7	75.7	66.0	53.4	47.5	45.6
57.5°	2949.4	588.9	105.8	74.7	65.0	61.1	60.2	43.7	29.1	25.2	23.3
60°	2894.1	531.7	96.0	64.0	55.3	49.5	40.7	24.3	14.6	10.7	10.7
62.5°	2676.7	451.1	85.4	52.4	45.6	37.8	21.3	13.6	6.8	3.9	2.9
65°	2394.4	379.3	76.6	41.7	35.9	24.3	11.6	8.7	2.9	0.0	0.0
67.5°	1780.3	281.4	65.0	33.0	27.2	15.5	7.8	4.9	1.0	0.0	0.0
70°	824.7	171.7	55.3	25.2	19.4	11.6	5.8	2.9	0.0	0.0	0.0
72.5°	236.7	107.7	45.6	18.4	13.6	9.7	4.9	1.9	1.0	0.0	0.0
75°	82.5	86.3	34.0	13.6	10.7	6.8	3.9	1.9	1.0	0.0	0.0
77.5°	49.5	69.9	21.3	11.6	8.7	5.8	3.9	1.9	1.0	1.0	0.0
80°	28.1	46.6	13.6	9.7	7.8	4.9	2.9	1.9	1.0	1.0	0.0
82.5°	15.5	22.3	10.7	8.7	6.8	4.9	2.9	1.9	1.0	1.0	1.0
85°	12.6	11.6	8.7	7.8	5.8	3.9	2.9	1.0	0.0	0.0	0.0
87.5°	9.7	7.8	7.8	7.8	5.8	3.9	2.9	1.0	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)