

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: P456225

Luminaire Tested: **GALN-SA7C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456225
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-SA7C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 33553 lumens
Efficiency: N/A
Efficacy: 89.0 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

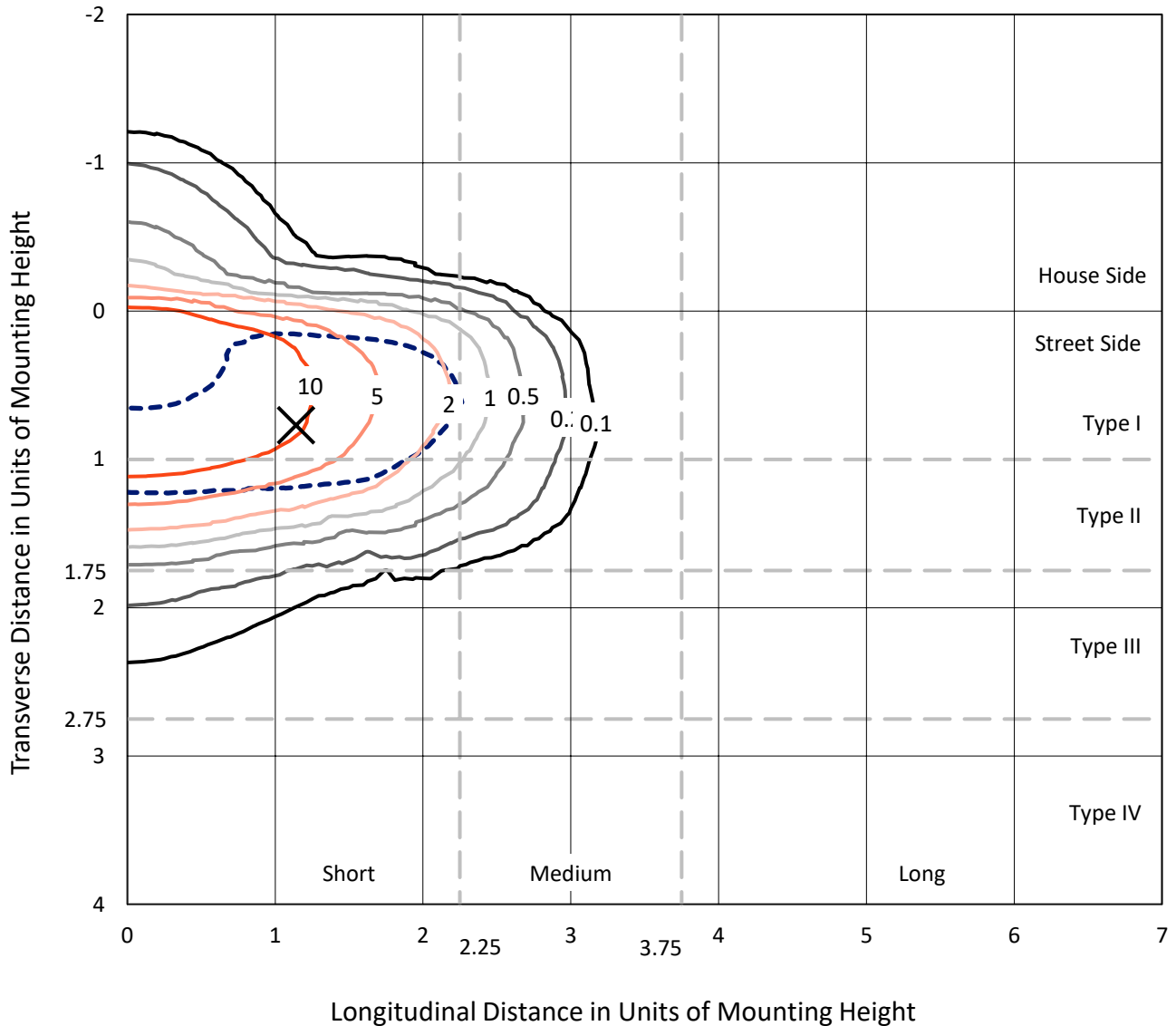
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456225
 CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

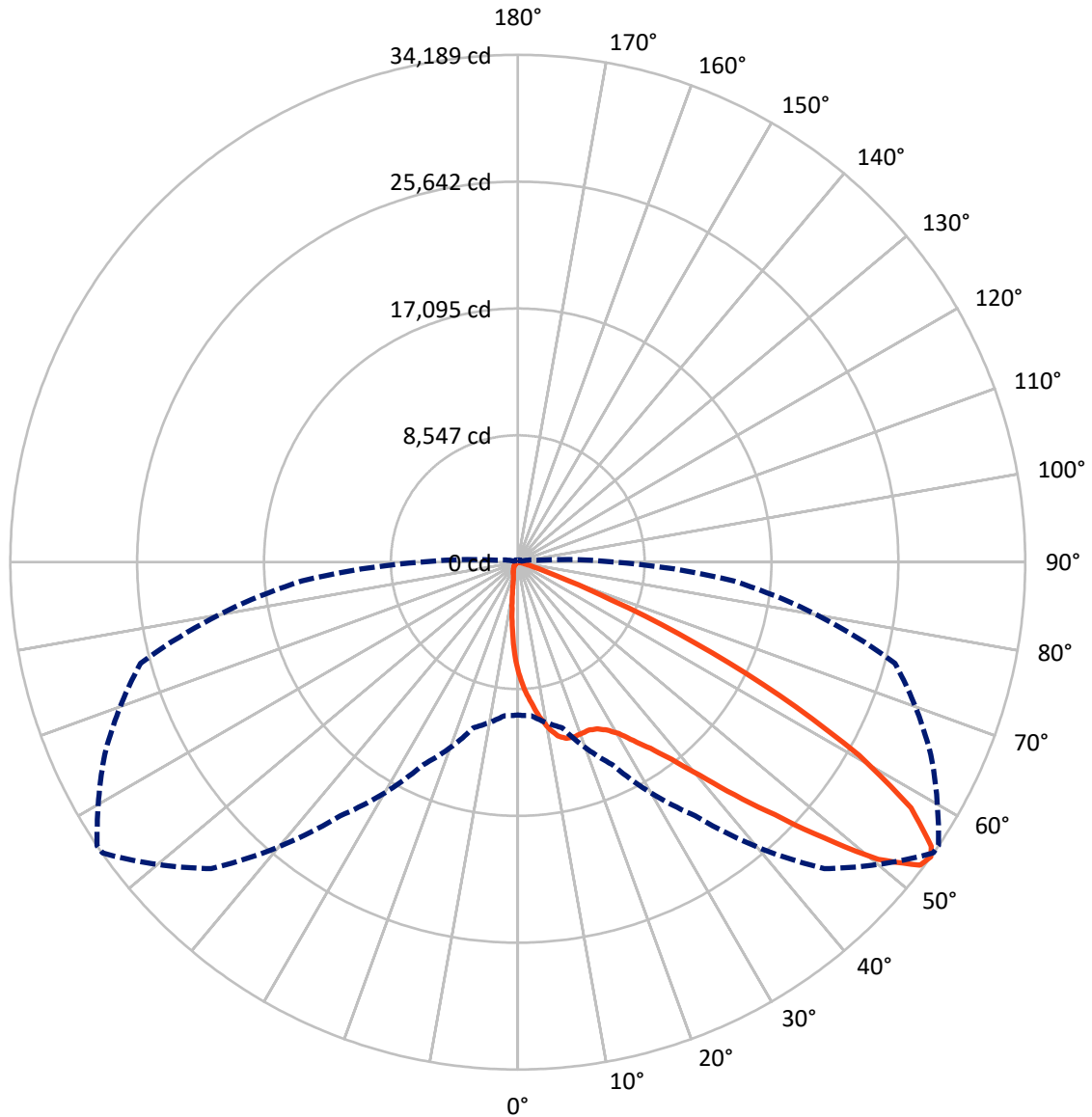
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

REPORT NUMBER: P456225
CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456225

CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.6	0.0	1586.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	31966.4	0.0	31966.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	33553.0	0.0	33553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.7	2.0
10°-20°	1780.8	5.3
20°-30°	3084.1	9.2
30°-40°	5323.7	15.9
40°-50°	9061.1	27.0
50°-60°	8967.1	26.7
60°-70°	4092.8	12.2
70°-80°	525.6	1.6
80°-90°	59.2	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°	33553.0	100.0
0°-180°	33553.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456225

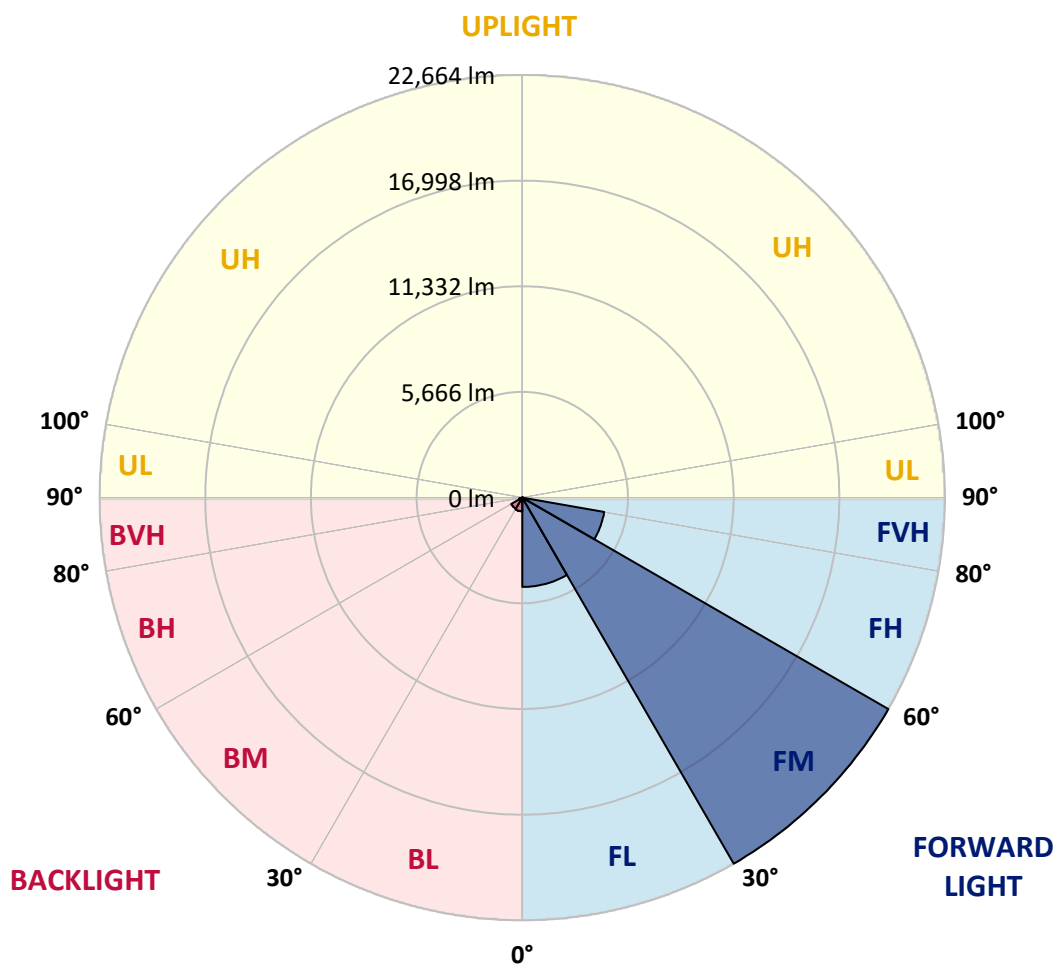
CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4789.8	14.3			
FM	(30°-60°)	22664.2	67.5			
FH	(60°-80°)	4459.5	13.3			G2/5000
FVH	(80°-90°)	52.9	0.2			G1/100
BL	(0°-30°)	733.8	2.2	B2/1000		
BM	(30°-60°)	687.6	2.0	B1/1000		
BH	(60°-80°)	158.9	0.5	B1/500		G1/500
BVH	(80°-90°)	6.4	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-G2

Type II Short





REPORT NUMBER: P456225

CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
2.5°	9473.8	9408.1	9317.6	9247.4	9082.1	8844.5	8593.2	8593.2	8351.0	8013.7	7669.6
5°	10927.1	10884.1	10795.8	10614.7	10429.1	10096.3	9591.5	9503.2	9070.8	8459.6	7816.7
7.5°	11517.9	11538.3	11542.8	11495.3	11407.0	11078.8	10578.5	10517.4	9826.9	9007.4	8009.1
10°	10952.0	11051.6	11148.9	11345.9	11624.3	11703.6	11420.6	11357.2	10678.1	9562.1	8217.4
12.5°	10109.9	10164.2	10218.5	10528.7	11087.8	11728.5	12025.0	12022.7	11447.8	10114.4	8482.3
15°	9718.3	9765.8	9770.3	9908.4	10392.9	11325.5	12283.1	12317.0	12199.3	10795.8	8767.5
17.5°	9799.8	9838.2	9806.5	9840.5	10094.0	10881.8	12253.7	12366.8	12808.3	11450.0	9025.6
20°	10331.7	10406.4	10284.2	10189.1	10266.1	10764.1	12154.0	12312.5	13238.4	12088.4	9261.0
22.5°	11287.0	11327.8	11173.8	10913.5	10777.7	11010.9	12126.9	12283.1	13605.1	12611.3	9396.8
25°	12348.7	12335.1	12165.4	11873.3	11588.1	11508.9	12305.7	12446.1	13908.4	13082.2	9437.6
27.5°	13410.4	13451.2	13165.9	12803.7	12461.9	12255.9	12706.4	12810.5	14250.3	13618.7	9487.4
30°	14644.2	14578.5	14297.8	13883.5	13491.9	13204.4	13351.6	13381.0	14721.1	14329.5	9618.7
32.5°	16249.2	16068.1	15753.4	15029.0	14748.3	14261.6	14297.8	14334.0	15293.9	15033.5	9777.1
35°	18426.9	18417.8	17802.1	16826.4	16142.8	15538.3	15379.9	15409.3	16160.9	16079.4	10128.0
37.5°	21048.3	21084.5	20382.8	19400.3	18141.7	17181.8	16855.8	16860.4	17478.4	17523.6	10662.2
40°	23183.0	23278.1	22859.3	22196.0	20953.2	19452.4	18904.5	18854.7	19330.1	19273.5	11425.1
42.5°	24102.1	24190.4	24346.6	24577.5	23893.8	22655.6	21363.0	21430.9	21575.8	21179.6	12280.8
45°	23651.6	23792.0	24405.4	25831.6	26474.5	26058.0	24516.4	24278.7	23665.2	23250.9	13141.0
47.5°	21775.0	22116.8	23142.3	25516.9	27767.1	29175.1	28075.0	27760.3	25756.9	24763.1	13688.9
50°	18689.5	18709.9	20138.3	23174.0	27097.0	31142.3	31708.3	31472.8	27706.0	25612.0	13965.0
52.5°	13548.5	13994.5	15302.9	18818.5	24194.9	30843.5	34024.1	33926.7	29716.2	26046.6	14363.5
54°	10300.0	10386.1	11549.6	15038.1	20860.4	29202.3	34166.7	34189.3	30714.5	26309.2	14598.9
55°	8443.8	8237.8	9460.2	12810.5	18585.3	27751.2	33700.4	33809.0	31162.7	26445.1	14773.2
57.5°	4002.3	4004.6	4939.5	6757.3	11640.2	21548.6	30850.3	31235.2	31212.5	26678.2	15309.7
60°	2026.1	2039.6	2245.6	3119.4	5749.9	14325.0	25507.9	26424.7	28810.7	26712.2	15486.3
62.5°	1417.1	1401.3	1367.3	1500.9	2419.9	7280.2	18990.6	19787.4	24477.9	25419.6	14924.9
65°	1213.4	1179.4	1084.3	1064.0	1222.4	2899.9	11828.1	13127.5	18689.5	22010.4	13326.7
67.5°	1036.8	1023.2	937.2	885.1	864.8	1263.2	6103.1	6786.7	12774.3	15821.3	10094.0
70°	880.6	873.8	821.7	756.1	699.5	756.1	2263.7	2804.8	7119.5	8518.5	4762.9
72.5°	715.3	722.1	731.2	647.4	588.6	536.5	966.6	1125.1	2979.1	3044.7	1666.1
75°	627.1	620.3	620.3	563.7	491.2	398.4	532.0	572.7	912.3	846.6	387.1
77.5°	441.4	425.6	498.0	464.1	409.7	283.0	303.3	321.5	378.0	323.7	181.1
80°	305.6	305.6	319.2	416.5	369.0	206.0	185.6	199.2	224.1	192.4	104.1
82.5°	172.0	176.6	208.3	221.8	215.1	138.1	122.2	124.5	149.4	131.3	65.6
85°	20.4	34.0	120.0	117.7	88.3	61.1	67.9	70.2	92.8	81.5	38.5
87.5°	2.3	4.5	24.9	31.7	22.6	24.9	24.9	24.9	31.7	36.2	27.2
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: P456225

CATALOG NUMBER: GALN-SA7C-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
2.5°	7483.9	7311.9	6902.2	6426.8	6123.4	5629.9	5213.4	4912.3	4837.6	4692.7	4735.8
5°	7474.9	7117.2	6281.9	5399.0	4457.3	3755.6	3232.6	2820.6	2639.5	2519.5	2435.8
7.5°	7479.4	6920.3	5580.1	4174.3	3049.3	2361.1	1876.6	1625.4	1457.9	1387.7	1396.7
10°	7493.0	6698.4	4765.2	3092.3	2057.7	1525.8	1229.2	1109.2	1052.6	1043.6	1041.3
12.5°	7524.7	6456.2	3986.5	2295.4	1439.7	1109.2	996.0	955.3	937.2	937.2	930.4
15°	7558.6	6189.1	3339.0	1706.9	1109.2	953.0	901.0	880.6	869.3	869.3	867.0
17.5°	7558.6	5881.2	2734.6	1324.3	955.3	876.1	835.3	808.2	799.1	799.1	796.8
20°	7511.1	5523.5	2198.1	1066.2	867.0	803.6	762.9	733.5	722.1	717.6	715.3
22.5°	7345.9	5045.9	1749.9	916.8	794.6	740.2	688.2	654.2	645.2	640.6	642.9
25°	7051.6	4507.1	1385.4	805.9	728.9	663.3	618.0	593.1	584.0	584.0	586.3
27.5°	6748.2	3943.4	1097.9	722.1	649.7	590.8	554.6	538.8	536.5	543.3	545.6
30°	6467.5	3377.5	889.7	654.2	579.5	529.7	504.8	500.3	500.3	502.6	504.8
32.5°	6155.1	2881.7	744.8	595.4	522.9	479.9	466.3	466.3	470.9	470.9	475.4
35°	5958.2	2456.2	654.2	538.8	479.9	443.7	434.6	436.9	443.7	452.7	457.3
37.5°	5851.8	2116.6	595.4	493.5	439.2	414.3	405.2	409.7	425.6	441.4	443.7
40°	5860.8	1860.8	547.8	455.0	407.5	380.3	373.5	387.1	402.9	418.8	421.1
42.5°	5960.4	1670.6	502.6	409.7	380.3	341.8	339.6	353.1	359.9	375.8	378.0
45°	6078.2	1532.6	455.0	362.2	330.5	296.6	298.8	310.1	319.2	344.1	348.6
47.5°	6114.4	1437.5	400.7	307.9	271.6	260.3	262.6	269.4	287.5	310.1	312.4
50°	6155.1	1378.6	348.6	260.3	230.9	228.6	230.9	235.4	246.7	255.8	253.5
52.5°	6329.4	1376.4	305.6	226.4	196.9	201.5	203.7	201.5	192.4	178.8	174.3
54°	6492.4	1383.1	285.2	210.5	181.1	187.9	185.6	174.3	151.7	138.1	131.3
55°	6623.7	1389.9	273.9	199.2	172.0	174.3	176.6	153.9	124.5	110.9	106.4
57.5°	6881.8	1374.1	246.7	174.3	151.7	142.6	140.4	101.9	67.9	58.9	54.3
60°	6752.8	1240.5	224.1	149.4	129.0	115.5	95.1	56.6	34.0	24.9	24.9
62.5°	6245.7	1052.6	199.2	122.2	106.4	88.3	49.8	31.7	15.8	9.1	6.8
65°	5586.9	885.1	178.8	97.3	83.8	56.6	27.2	20.4	6.8	0.0	0.0
67.5°	4154.0	656.5	151.7	77.0	63.4	36.2	18.1	11.3	2.3	0.0	0.0
70°	1924.2	400.7	129.0	58.9	45.3	27.2	13.6	6.8	0.0	0.0	0.0
72.5°	552.4	251.3	106.4	43.0	31.7	22.6	11.3	4.5	2.3	0.0	0.0
75°	192.4	201.5	79.2	31.7	24.9	15.8	9.1	4.5	2.3	0.0	0.0
77.5°	115.5	163.0	49.8	27.2	20.4	13.6	9.1	4.5	2.3	2.3	0.0
80°	65.6	108.7	31.7	22.6	18.1	11.3	6.8	4.5	2.3	2.3	0.0
82.5°	36.2	52.1	24.9	20.4	15.8	11.3	6.8	4.5	2.3	2.3	2.3
85°	29.4	27.2	20.4	18.1	13.6	9.1	6.8	2.3	0.0	0.0	0.0
87.5°	22.6	18.1	18.1	18.1	13.6	9.1	6.8	2.3	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)