

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: P532067

Luminaire Tested: **GALN-SA7B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17719 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

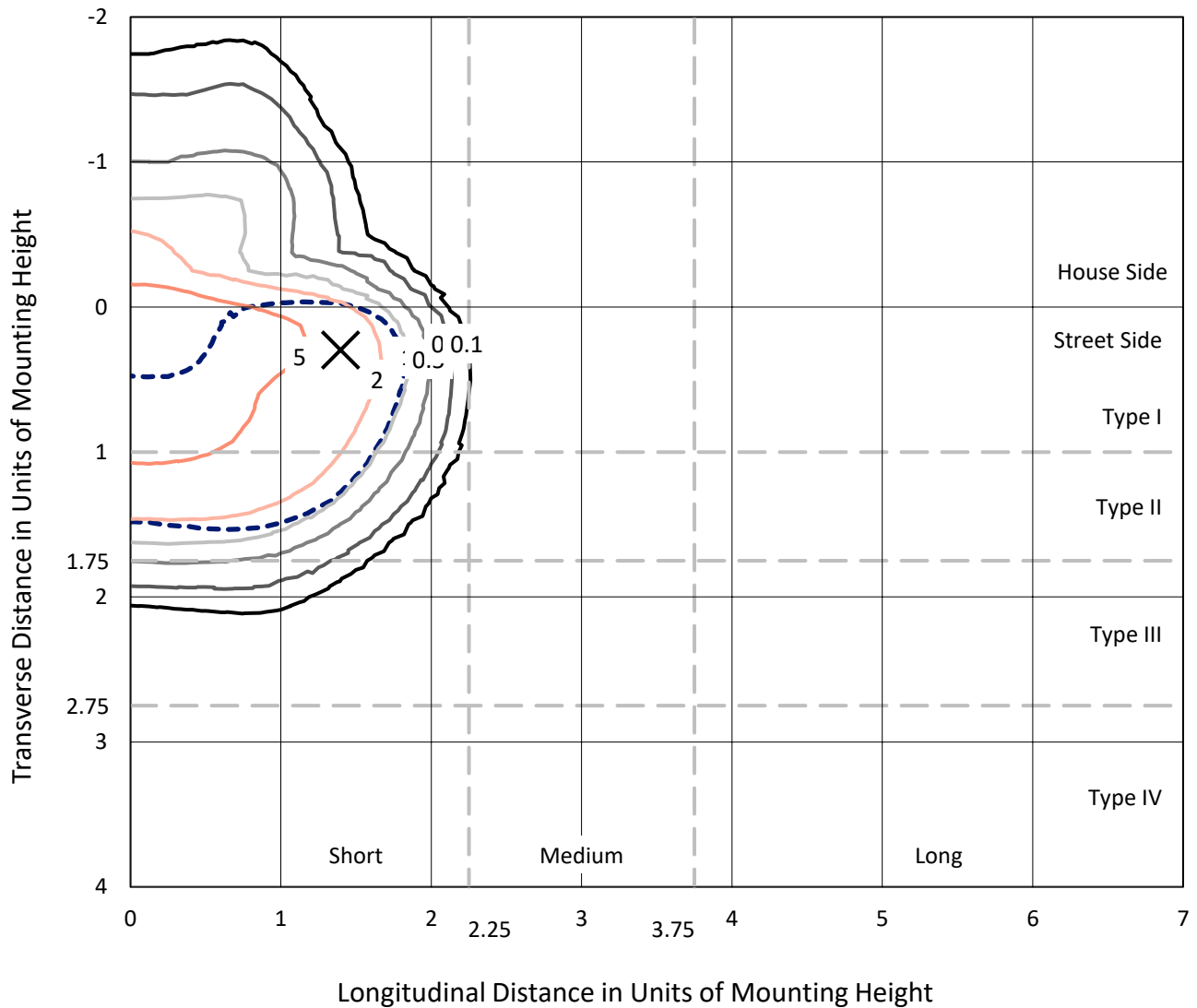
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532067
 CATALOG NUMBER: GALN-SA7B-827-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

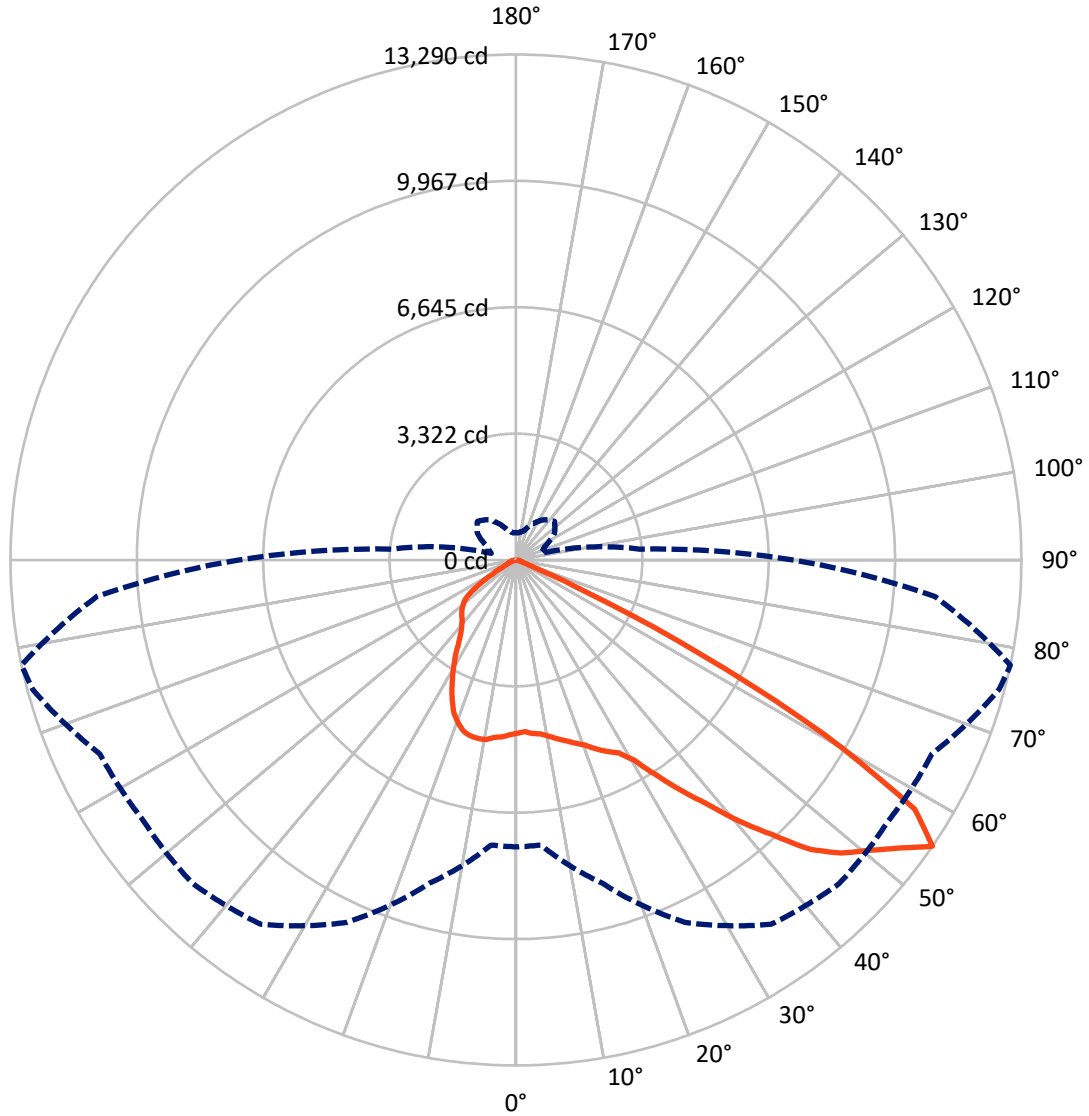
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P532067
CATALOG NUMBER: GALN-SA7B-827-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P532067

CATALOG NUMBER: GALN-SA7B-827-U-T3R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3291.1	0.0	3291.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14427.9	0.0	14427.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	17719.0	0.0	17719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	2.3
10°-20°	1075.0	6.1
20°-30°	1884.4	10.6
30°-40°	3107.1	17.5
40°-50°	4521.2	25.5
50°-60°	5123.0	28.9
60°-70°	1464.8	8.3
70°-80°	113.7	0.6
80°-90°	23.7	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°	17719.0	100.0
0°-180°	17719.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532067

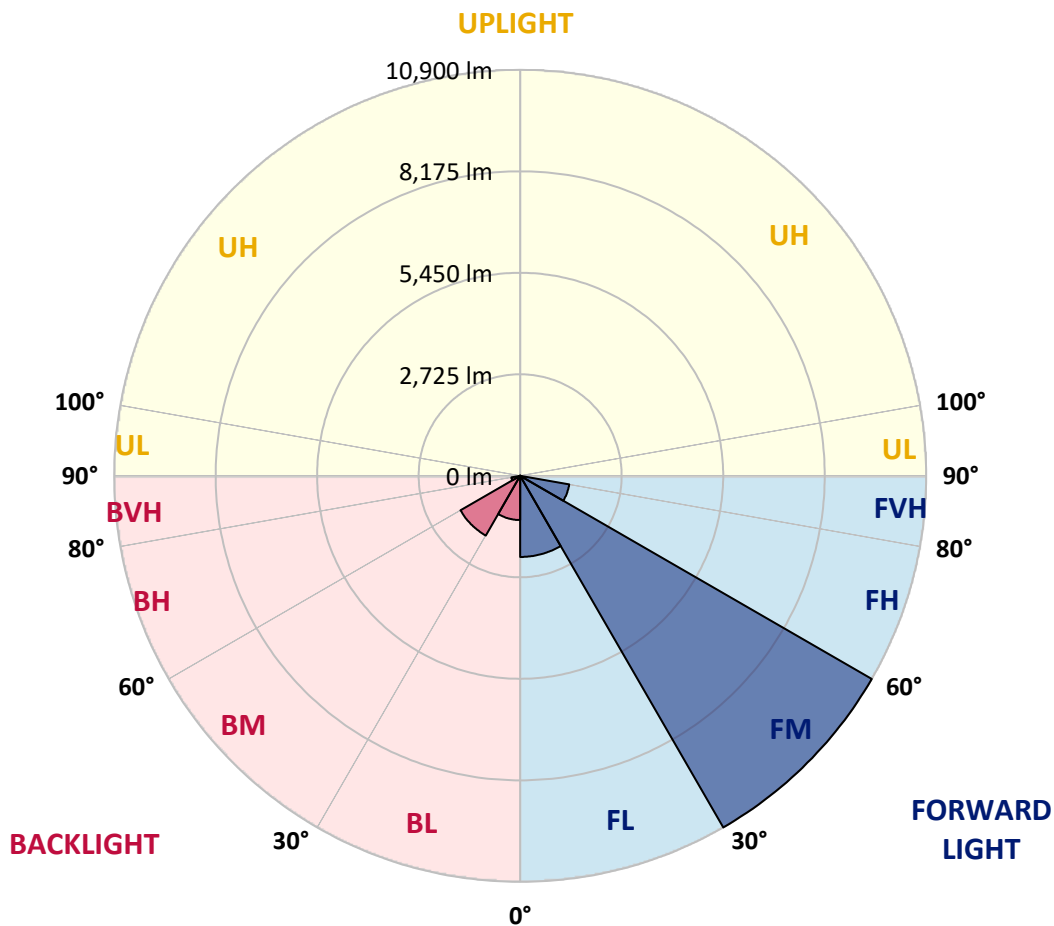
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.2	12.3			
FM (30°-60°)	10899.9	61.5			
FH (60°-80°)	1338.3	7.6			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1187.4	6.7	B3/2500		
BM (30°-60°)	1851.3	10.4	B2/2500		
BH (60°-80°)	240.2	1.4	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P532067

CATALOG NUMBER: GALN-SA7B-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6
2.5°	4283.1	4324.3	4330.6	4381.3	4378.2	4463.7	4489.0	4492.2	4549.2	4520.7	4593.6
5°	4162.7	4140.6	4131.1	4219.8	4245.1	4321.1	4384.5	4422.5	4539.7	4580.9	4656.9
7.5°	4055.0	4055.0	4061.4	4140.6	4131.1	4229.3	4295.8	4413.0	4584.1	4618.9	4710.8
10°	3950.5	3912.5	3960.0	4042.4	4112.0	4156.4	4295.8	4406.7	4606.3	4707.6	4834.3
12.5°	3896.6	3915.6	3922.0	3982.2	4058.2	4191.2	4267.3	4451.0	4764.7	4824.8	4961.1
15°	4235.6	4197.6	4105.7	4051.9	4115.2	4178.6	4368.7	4555.6	4847.0	4932.6	5084.6
17.5°	4628.4	4596.7	4520.7	4375.0	4232.4	4349.6	4498.5	4669.6	4935.7	5062.4	5287.4
20°	5141.6	5091.0	5014.9	4729.8	4606.3	4479.5	4637.9	4840.7	5081.5	5195.5	5426.8
22.5°	5753.1	5753.1	5582.0	5236.7	4980.1	4859.7	4926.2	5043.4	5243.0	5398.2	5626.3
25°	6389.8	6370.8	6215.6	5857.6	5423.6	5281.0	5357.1	5439.4	5493.3	5578.8	5730.9
27.5°	7118.5	7007.6	6811.2	6415.2	6031.8	5756.2	5838.6	5765.7	5699.2	5743.6	5962.2
30°	7612.7	7682.4	7432.1	7051.9	6690.8	6383.5	6399.3	6336.0	6031.8	6095.2	6225.1
32.5°	8125.9	8170.2	8030.8	7821.8	7460.6	7102.6	6972.7	6918.9	6690.8	6719.3	6592.6
35°	8553.6	8639.1	8515.5	8423.7	8319.1	8030.8	7672.9	7847.1	7479.6	7409.9	7080.5
37.5°	8946.4	8921.1	9066.8	8971.7	8949.6	8746.8	8354.0	8388.8	8141.7	8125.9	7745.7
40°	9298.0	9304.4	9504.0	9548.3	9459.6	9098.5	8528.2	8803.8	9003.4	9022.4	8534.6
42.5°	9589.5	9675.0	9846.1	10204.1	10071.0	9469.1	8708.8	9009.8	9751.1	9868.3	9282.2
45°	9842.9	10017.2	10229.4	10549.4	10473.4	9995.0	9158.7	9434.3	10549.4	10856.7	9985.5
47.5°	9858.8	10086.9	10318.1	10793.3	10888.4	10276.9	9624.3	10105.9	11183.0	11515.6	10498.7
50°	9795.4	9915.8	10378.3	10894.7	11110.1	10736.3	10276.9	10669.8	11797.6	12006.7	10758.5
52.5°	9044.6	9136.5	10064.7	10989.7	11509.3	11255.9	11141.8	11455.4	12424.8	12580.1	11002.4
55°	7539.8	7524.0	8800.7	10511.4	11693.0	12025.7	11956.0	12066.9	13150.3	13289.7	11062.6
57.5°	5157.5	5445.8	6548.2	8753.1	10568.4	11845.1	11918.0	11734.2	12304.5	12358.3	9643.4
60°	2781.5	2901.9	3788.9	5841.8	8046.7	9652.9	9842.9	9510.3	9465.9	9313.9	6884.0
62.5°	1105.6	1165.8	1669.5	2892.4	4384.5	5867.1	6275.8	6139.6	5848.1	5448.9	3564.0
65°	525.9	563.9	830.0	1352.7	1945.1	2445.7	2854.4	2981.1	2198.6	1980.0	1175.3
67.5°	358.0	386.5	605.1	773.0	693.8	725.5	944.1	877.5	516.4	440.4	326.3
70°	272.4	291.5	484.7	525.9	310.5	218.6	243.9	228.1	212.3	215.4	212.3
72.5°	193.2	209.1	354.8	310.5	136.2	101.4	129.9	155.2	155.2	155.2	152.1
75°	117.2	133.1	205.9	120.4	53.9	53.9	82.4	104.5	110.9	114.0	107.7
77.5°	60.2	76.0	69.7	34.8	34.8	41.2	60.2	72.9	79.2	79.2	76.0
80°	12.7	12.7	12.7	19.0	34.8	44.4	60.2	66.5	76.0	76.0	69.7
82.5°	0.0	3.2	9.5	19.0	31.7	41.2	57.0	66.5	76.0	79.2	72.9
85°	0.0	3.2	6.3	12.7	22.2	25.3	22.2	19.0	19.0	19.0	19.0
87.5°	0.0	0.0	3.2	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3
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: P532067

CATALOG NUMBER: GALN-SA7B-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6
2.5°	4599.9	4609.4	4593.6	4590.4	4577.7	4615.8	4523.9	4501.7	4558.7	4504.9	4517.5
5°	4660.1	4682.3	4653.8	4606.3	4536.6	4428.8	4337.0	4216.6	4159.6	4118.4	4112.0
7.5°	4704.5	4720.3	4691.8	4539.7	4330.6	4058.2	3855.4	3706.5	3589.3	3554.5	3497.5
10°	4885.0	4888.2	4745.6	4409.8	4001.2	3643.2	3332.7	3104.6	2987.4	2914.5	2882.9
12.5°	5005.4	4999.1	4710.8	4153.2	3608.3	3133.1	2778.3	2502.7	2395.0	2360.2	2338.0
15°	5157.5	5122.6	4628.4	3890.3	3101.5	2588.2	2268.3	2078.2	2068.7	2046.5	2068.7
17.5°	5277.9	5179.7	4508.0	3411.9	2616.8	2132.1	1923.0	1935.6	1961.0	1983.2	1986.3
20°	5474.3	5271.5	4232.4	2993.7	2166.9	1827.9	1824.8	1881.8	1945.1	1970.5	1995.8
22.5°	5623.2	5309.5	3937.8	2547.1	1799.4	1704.4	1758.2	1843.8	1891.3	1916.6	1954.6
25°	5677.0	5205.0	3545.0	2100.4	1622.0	1647.4	1729.7	1786.7	1846.9	1875.4	1859.6
27.5°	5730.9	5151.1	3076.1	1729.7	1527.0	1609.3	1679.0	1736.1	1755.1	1793.1	1818.4
30°	5860.8	4964.2	2654.8	1495.3	1479.4	1584.0	1634.7	1653.7	1704.4	1726.6	1726.6
32.5°	5965.3	4891.4	2208.1	1384.4	1473.1	1596.7	1603.0	1603.0	1609.3	1593.5	1587.2
35°	6180.7	4641.1	1808.9	1317.9	1469.9	1599.8	1615.7	1561.8	1416.1	1359.1	1343.2
37.5°	6446.9	4479.5	1514.3	1302.0	1492.1	1637.8	1663.2	1460.4	1270.4	1178.5	1162.7
40°	6770.0	4365.5	1321.1	1295.7	1542.8	1726.6	1650.5	1381.2	1134.1	1001.1	994.7
42.5°	7147.0	4260.9	1191.2	1292.5	1606.2	1818.4	1637.8	1314.7	994.7	906.0	918.7
45°	7447.9	4203.9	1102.5	1270.4	1628.3	1872.3	1647.4	1197.5	937.7	880.7	887.0
47.5°	7682.4	4083.5	1029.6	1232.3	1625.2	1891.3	1561.8	1150.0	909.2	925.1	940.9
50°	7688.7	3922.0	937.7	1150.0	1577.7	1856.4	1463.6	1105.6	902.9	969.4	1001.1
52.5°	7603.2	3693.9	839.5	1032.8	1466.8	1736.1	1374.9	1086.6	874.4	868.0	906.0
55°	7299.0	3266.2	674.8	836.3	1238.7	1431.9	1295.7	1051.8	788.8	716.0	722.3
57.5°	5898.8	2341.1	497.4	598.7	877.5	1048.6	1169.0	1035.9	709.6	608.3	611.4
60°	3652.7	1327.4	364.3	408.7	541.7	636.8	947.2	963.1	633.6	513.2	506.9
62.5°	1875.4	655.8	282.0	288.3	332.6	373.8	649.4	807.8	573.4	487.9	487.9
65°	627.3	323.1	247.1	221.8	221.8	231.3	392.8	560.7	484.7	408.7	408.7
67.5°	269.3	240.8	215.4	193.2	177.4	167.9	221.8	326.3	361.2	310.5	297.8
70°	209.1	202.8	186.9	161.6	139.4	126.7	129.9	167.9	205.9	199.6	193.2
72.5°	155.2	155.2	148.9	126.7	107.7	91.9	85.5	88.7	98.2	101.4	104.5
75°	107.7	110.9	110.9	98.2	79.2	66.5	57.0	47.5	38.0	31.7	28.5
77.5°	72.9	76.0	82.4	72.9	60.2	44.4	34.8	25.3	15.8	6.3	6.3
80°	63.4	72.9	79.2	72.9	63.4	47.5	34.8	19.0	9.5	0.0	0.0
82.5°	66.5	72.9	82.4	69.7	60.2	44.4	34.8	22.2	9.5	3.2	0.0
85°	15.8	15.8	19.0	22.2	28.5	31.7	25.3	15.8	9.5	3.2	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	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)