

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: P530857

Luminaire Tested: **GALN-SA6A-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15829 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

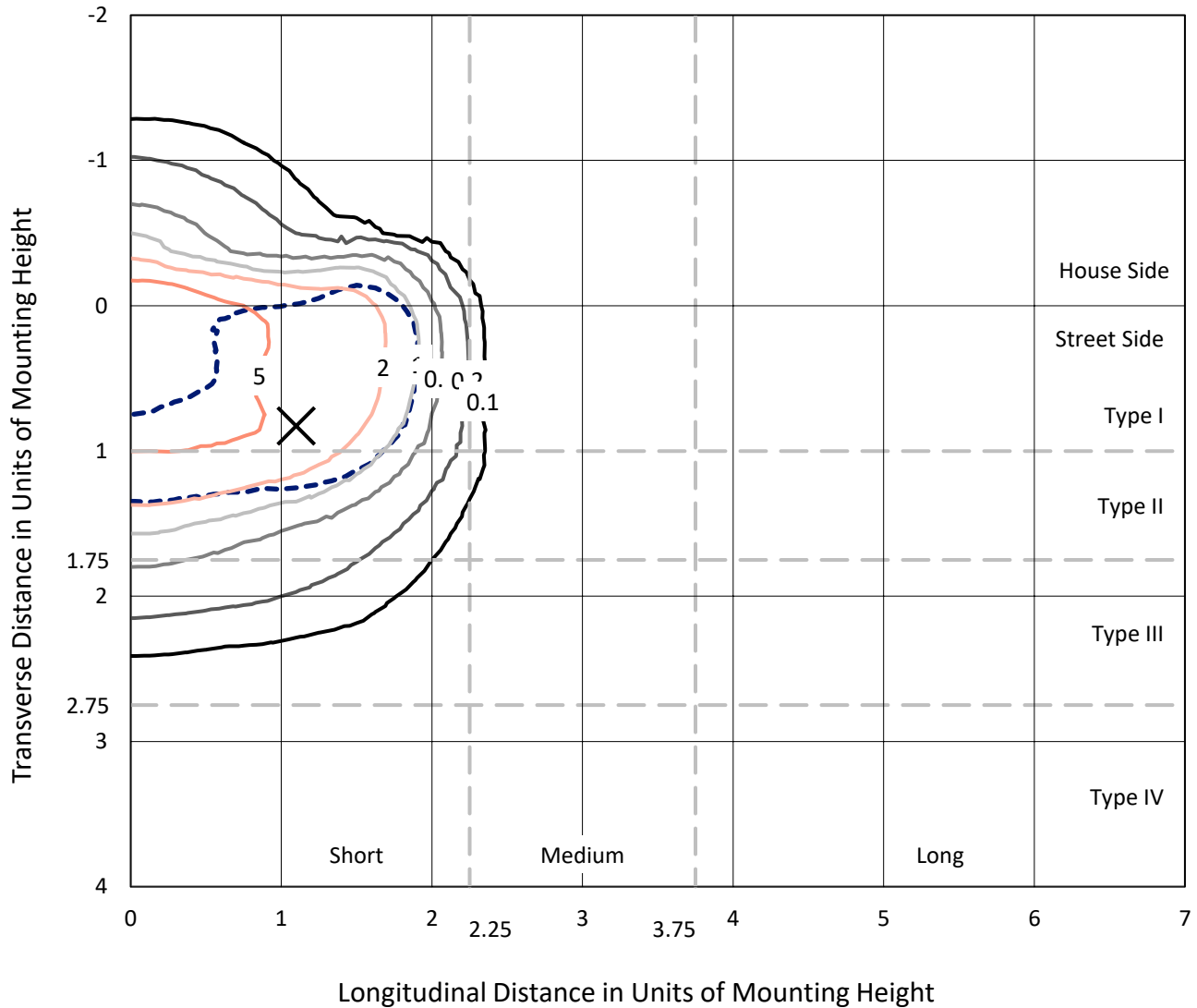
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

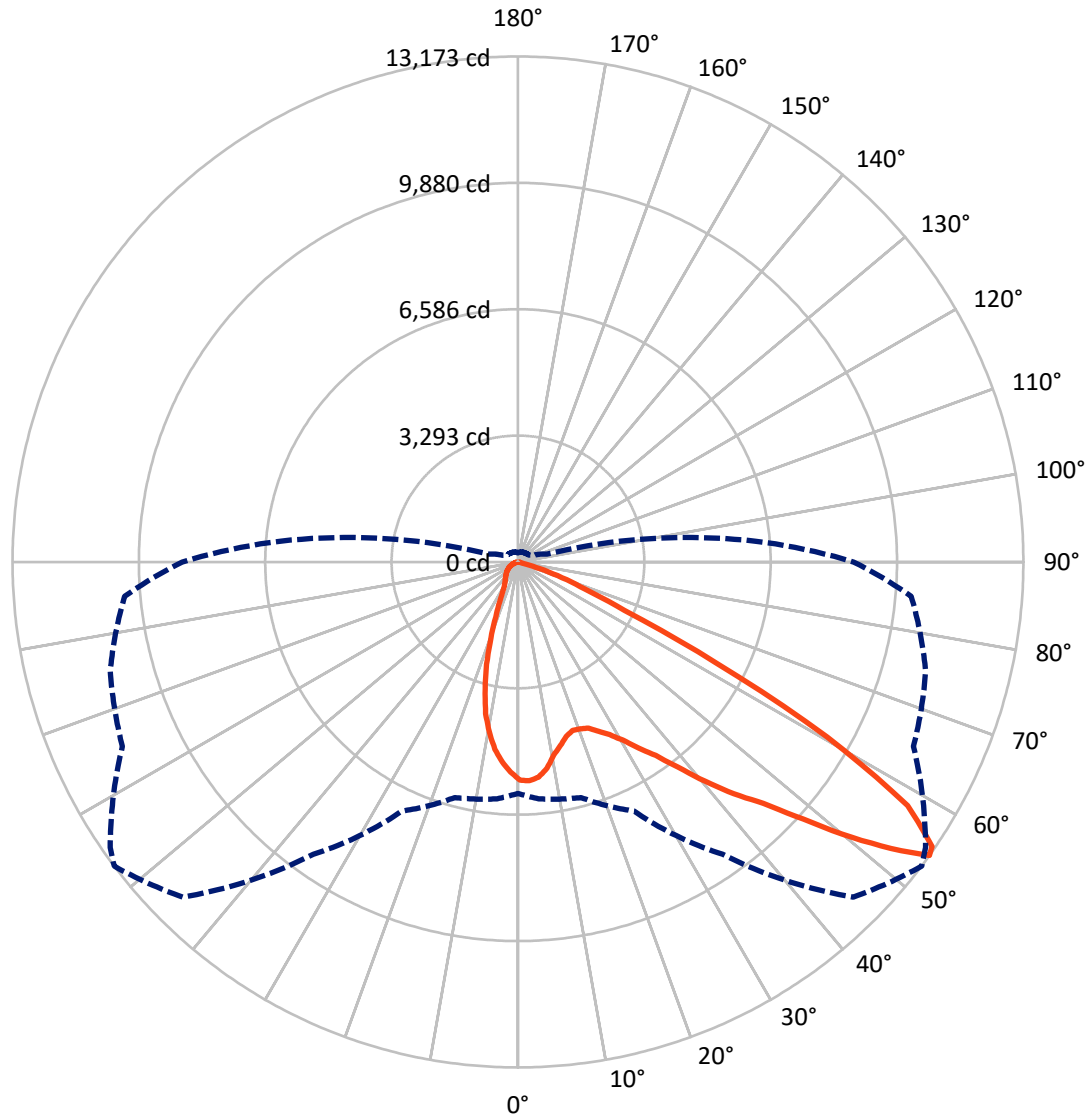
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2618.9	0.0	2618.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13210.0	0.0	13210.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	15829.0	0.0	15829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	3.1
10°-20°	1118.4	7.1
20°-30°	1589.5	10.0
30°-40°	2453.0	15.5
40°-50°	3846.0	24.3
50°-60°	4467.7	28.2
60°-70°	1688.2	10.7
70°-80°	160.5	1.0
80°-90°	18.1	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°	15829.0	100.0
0°-180°	15829.0	100.0

Coefficient of Utilization



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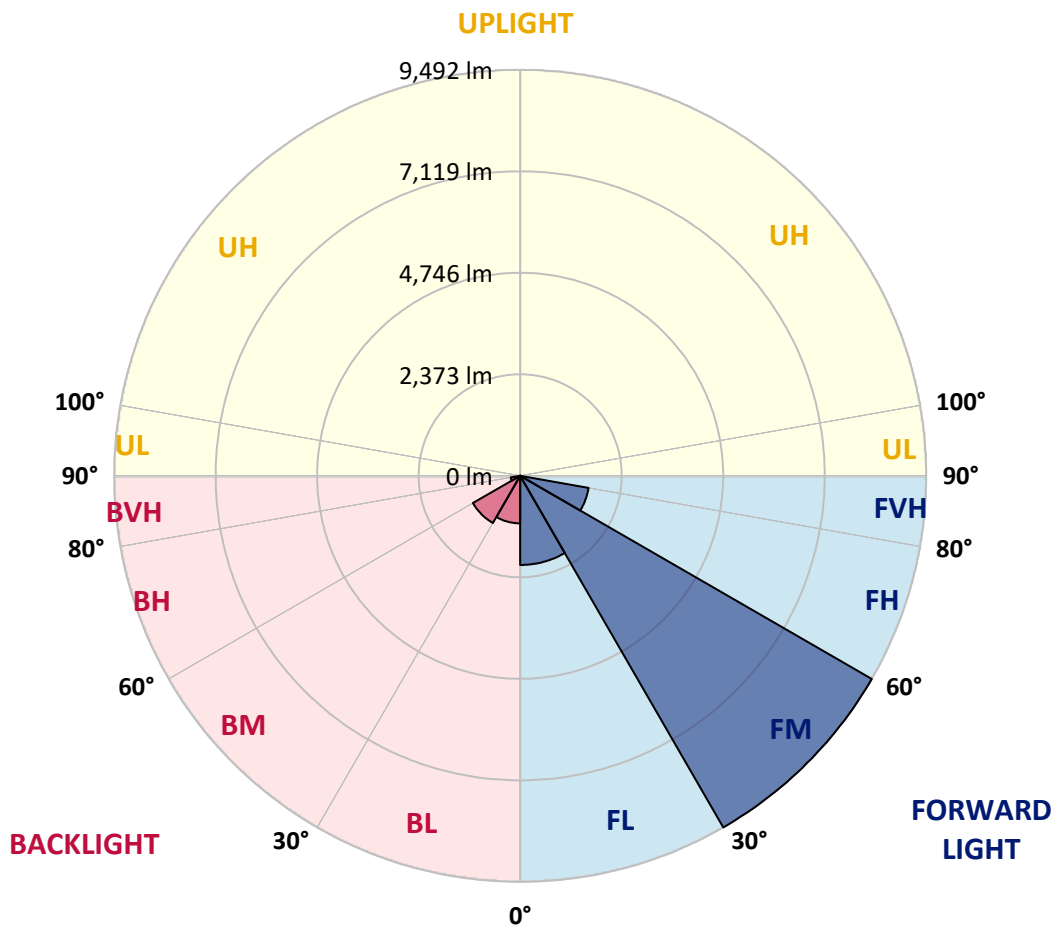
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.3	13.2			
FM (30°-60°)	9492.2	60.0			
FH (60°-80°)	1624.3	10.3			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	1111.4	7.0	B3/2500		
BM (30°-60°)	1274.5	8.1	B2/2500		
BH (60°-80°)	224.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5
2.5°	5656.0	5605.9	5656.0	5661.9	5697.3	5729.7	5709.1	5756.3	5729.7	5700.3	5691.4
5°	5198.9	5266.8	5269.7	5375.9	5352.3	5546.9	5632.4	5608.8	5753.3	5744.5	5723.8
7.5°	4789.0	4762.5	4797.9	4921.7	5078.0	5302.2	5426.0	5423.1	5629.5	5776.9	5762.2
10°	4408.6	4405.7	4479.4	4576.7	4709.4	4945.3	5116.4	5201.9	5523.3	5747.4	5779.9
12.5°	4152.1	4140.3	4219.9	4299.5	4508.9	4691.7	4909.9	4951.2	5319.8	5644.2	5697.3
15°	3984.0	4010.5	4016.4	4169.8	4302.5	4544.3	4715.3	4800.8	5225.5	5561.7	5765.1
17.5°	3954.5	3989.9	3992.8	4119.6	4261.2	4464.7	4615.1	4730.1	5145.9	5602.9	5768.1
20°	4013.5	3992.8	4010.5	4090.1	4228.7	4423.4	4641.6	4679.9	5119.3	5623.6	5800.5
22.5°	4181.6	4175.7	4131.4	4196.3	4293.6	4497.1	4703.5	4762.5	5196.0	5729.7	5827.1
25°	4367.3	4399.8	4358.5	4349.7	4417.5	4618.0	4892.3	4968.9	5452.5	5921.4	5909.6
27.5°	4715.3	4682.9	4682.9	4641.6	4623.9	4721.2	5095.7	5222.5	5738.6	6169.1	6004.0
30°	5048.5	5083.9	5057.4	5072.1	4954.2	4945.3	5384.7	5541.0	6245.8	6546.6	6204.5
32.5°	5576.4	5529.2	5573.5	5535.1	5378.8	5219.6	5776.9	5939.1	6859.2	6980.1	6505.3
35°	6015.8	5995.1	6183.9	6178.0	5924.4	5768.1	6192.7	6434.5	7286.8	7499.1	6859.2
37.5°	6641.0	6602.6	6817.9	6921.1	6694.0	6461.1	6788.4	7068.6	7684.9	7914.9	7221.9
40°	7283.8	7381.1	7670.1	7841.2	7599.4	7289.7	7516.8	7602.3	7950.3	8186.2	7469.6
42.5°	8097.7	8239.3	8534.2	8681.6	8661.0	8324.8	8257.0	8254.0	8142.0	8109.5	7652.4
45°	8879.2	8826.1	9280.2	9601.7	9861.2	9763.9	8970.6	8882.1	8445.7	8224.5	7699.6
47.5°	9221.3	9203.6	9513.2	10085.3	10970.0	11090.9	10008.6	9666.5	8958.8	8708.1	7956.2
50°	8778.9	8870.3	9177.0	9811.0	11167.5	12090.6	11282.6	10822.5	9557.4	9297.9	8563.7
52.5°	7334.0	7395.9	7687.8	8492.9	10495.2	12680.3	12503.4	12238.0	10657.4	10226.8	9622.3
54°	6030.5	6195.7	6354.9	7162.9	9297.9	12353.0	13172.8	12969.3	11374.0	10999.5	10288.8
55°	5252.0	5349.3	5464.3	6269.4	8469.3	11798.6	13096.1	13113.8	11854.6	11241.3	10737.0
57.5°	3836.5	3904.4	3786.4	4143.2	5815.3	9581.0	11978.5	12456.2	12503.4	11604.0	11011.3
60°	2931.2	2960.7	2828.0	2884.0	3615.4	6576.1	9265.5	9840.5	11279.6	10141.3	9327.4
62.5°	2273.6	2279.5	2276.6	2373.9	2491.8	3869.0	5794.6	6304.8	7776.3	7201.3	6334.3
65°	1675.0	1648.4	1695.6	1990.5	2126.2	2432.9	3052.1	3423.7	4225.8	3568.2	2550.8
67.5°	1085.2	1094.0	1141.2	1480.4	1822.4	1866.7	1878.5	1849.0	1851.9	1020.3	639.9
70°	651.7	666.5	651.7	837.5	1303.4	1338.8	1223.8	1194.3	931.9	241.8	238.9
72.5°	386.3	365.7	327.3	359.8	542.6	648.8	583.9	580.9	365.7	141.5	141.5
75°	162.2	147.4	120.9	109.1	144.5	138.6	138.6	123.9	97.3	94.4	88.5
77.5°	32.4	32.4	23.6	26.5	35.4	41.3	50.1	50.1	59.0	59.0	56.0
80°	0.0	2.9	8.8	17.7	26.5	38.3	44.2	44.2	50.1	50.1	41.3
82.5°	0.0	2.9	8.8	17.7	23.6	35.4	44.2	44.2	50.1	53.1	44.2
85°	0.0	2.9	8.8	14.7	23.6	29.5	29.5	26.5	20.6	17.7	11.8
87.5°	0.0	0.0	2.9	5.9	2.9	5.9	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5	5685.5
2.5°	5712.1	5709.1	5638.3	5523.3	5496.8	5399.5	5387.7	5328.7	5361.1	5252.0	5240.2
5°	5664.9	5629.5	5544.0	5470.2	5255.0	5101.6	4980.7	4833.3	4747.8	4762.5	4706.5
7.5°	5732.7	5641.3	5490.9	5234.3	4971.9	4703.5	4559.0	4258.2	4149.1	3986.9	3963.3
10°	5661.9	5594.1	5361.1	4936.5	4573.8	4187.5	3848.3	3515.1	3261.5	3152.4	3128.8
12.5°	5656.0	5538.1	5148.8	4677.0	4152.1	3597.7	3105.2	2689.4	2438.8	2297.2	2264.8
15°	5564.6	5423.1	4909.9	4275.9	3550.5	2860.4	2323.7	1922.7	1731.0	1648.4	1672.0
17.5°	5573.5	5361.1	4671.1	3851.3	2957.8	2099.6	1586.5	1380.1	1330.0	1350.6	1350.6
20°	5564.6	5222.5	4382.1	3361.8	2264.8	1456.8	1164.8	1091.1	1123.5	1188.4	1173.7
22.5°	5517.4	5157.7	4116.7	2845.7	1666.1	1079.3	934.8	937.8	987.9	1067.5	1085.2
25°	5552.8	5013.2	3780.5	2323.7	1215.0	861.1	811.0	831.6	884.7	943.7	955.4
27.5°	5526.3	4909.9	3429.6	1804.7	887.6	740.2	737.2	760.8	784.4	828.6	828.6
30°	5555.8	4815.6	3084.6	1341.8	731.3	678.3	666.5	684.1	707.7	716.6	713.6
32.5°	5664.9	4744.8	2686.5	1002.6	645.8	619.3	619.3	619.3	616.3	628.1	631.1
35°	5903.7	4756.6	2335.5	775.6	589.8	569.1	560.3	548.5	542.6	548.5	551.4
37.5°	6163.2	4750.7	1972.8	660.6	548.5	530.8	510.2	492.5	489.5	495.4	486.6
40°	6278.2	4806.7	1636.6	592.7	510.2	489.5	457.1	442.3	445.3	451.2	445.3
42.5°	6434.5	4824.4	1418.4	539.7	474.8	442.3	421.7	404.0	401.1	409.9	407.0
45°	6431.6	4724.2	1188.4	510.2	442.3	407.0	380.4	365.7	365.7	371.6	374.5
47.5°	6620.3	4709.4	1020.3	483.6	418.7	383.4	350.9	339.1	336.2	336.2	330.3
50°	7059.7	4915.8	890.6	454.1	389.3	356.8	330.3	315.5	303.7	297.8	294.9
52.5°	7917.8	5558.7	790.3	418.7	356.8	330.3	306.7	294.9	280.1	265.4	262.5
54°	8749.4	6222.2	784.4	389.3	330.3	312.6	291.9	286.0	268.4	247.7	241.8
55°	9123.9	6608.5	805.1	365.7	312.6	300.8	283.1	277.2	259.5	235.9	233.0
57.5°	9433.6	6758.9	793.3	303.7	283.1	280.1	265.4	256.6	235.9	203.5	197.6
60°	7593.5	5110.5	569.1	268.4	259.5	253.6	241.8	235.9	209.4	174.0	171.0
62.5°	4797.9	2940.1	362.7	235.9	227.1	218.2	203.5	197.6	174.0	138.6	129.8
65°	2043.6	1217.9	244.8	209.4	194.6	179.9	168.1	159.2	138.6	103.2	100.3
67.5°	530.8	433.5	203.5	182.8	162.2	141.5	132.7	118.0	94.4	70.8	67.8
70°	238.9	218.2	171.0	153.3	129.8	109.1	97.3	82.6	61.9	47.2	44.2
72.5°	141.5	138.6	129.8	115.0	97.3	82.6	70.8	56.0	41.3	26.5	26.5
75°	88.5	85.5	88.5	79.6	67.8	61.9	53.1	38.3	23.6	11.8	11.8
77.5°	53.1	53.1	53.1	50.1	47.2	47.2	38.3	23.6	11.8	2.9	2.9
80°	41.3	41.3	44.2	41.3	41.3	41.3	32.4	17.7	5.9	0.0	0.0
82.5°	41.3	44.2	50.1	47.2	41.3	35.4	29.5	17.7	5.9	0.0	0.0
85°	11.8	8.8	14.7	20.6	29.5	26.5	20.6	14.7	5.9	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	2.9	2.9	2.9	2.9	2.9	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)