

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: P531899

Luminaire Tested: **GALN-SA7B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19384 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

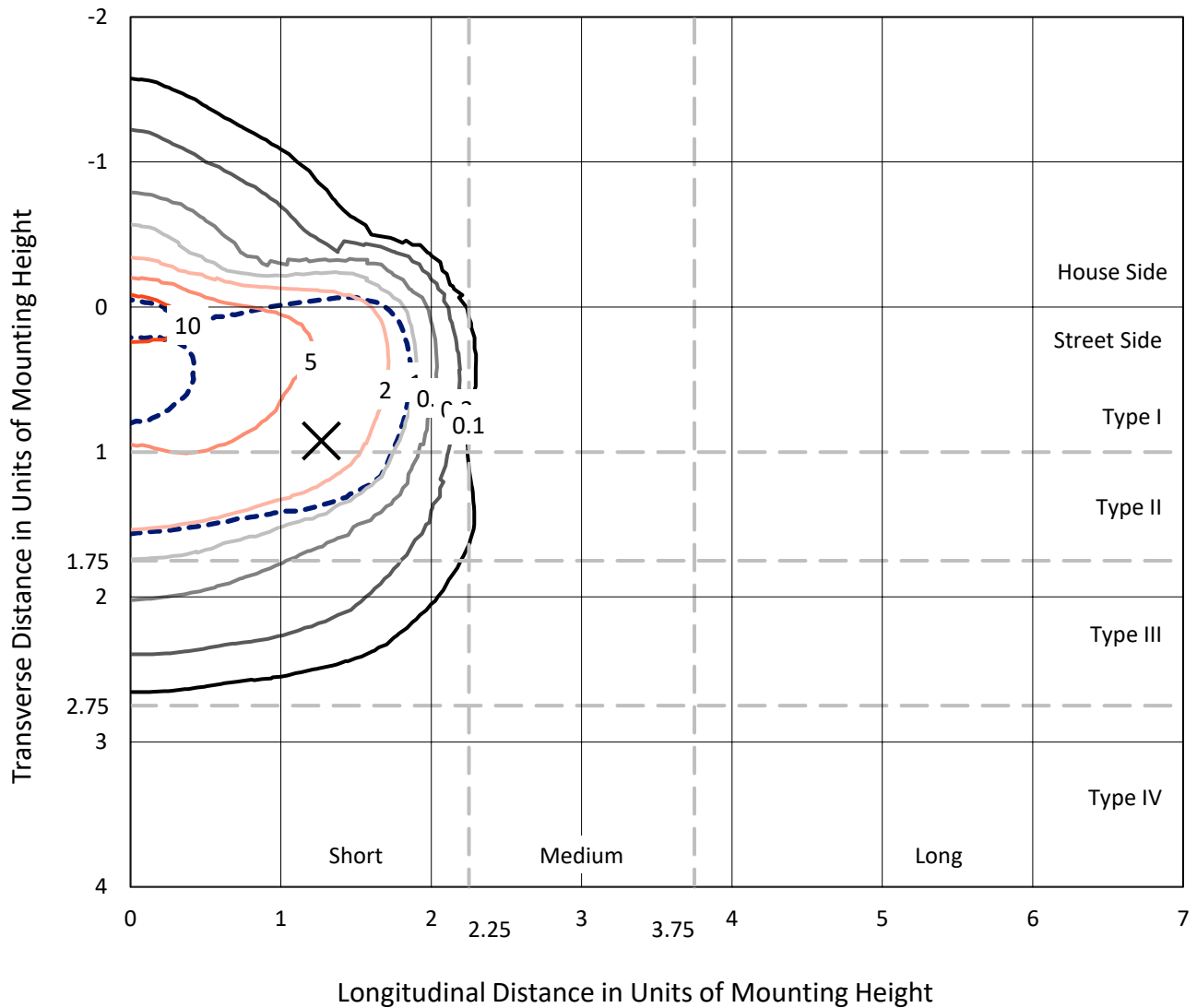
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

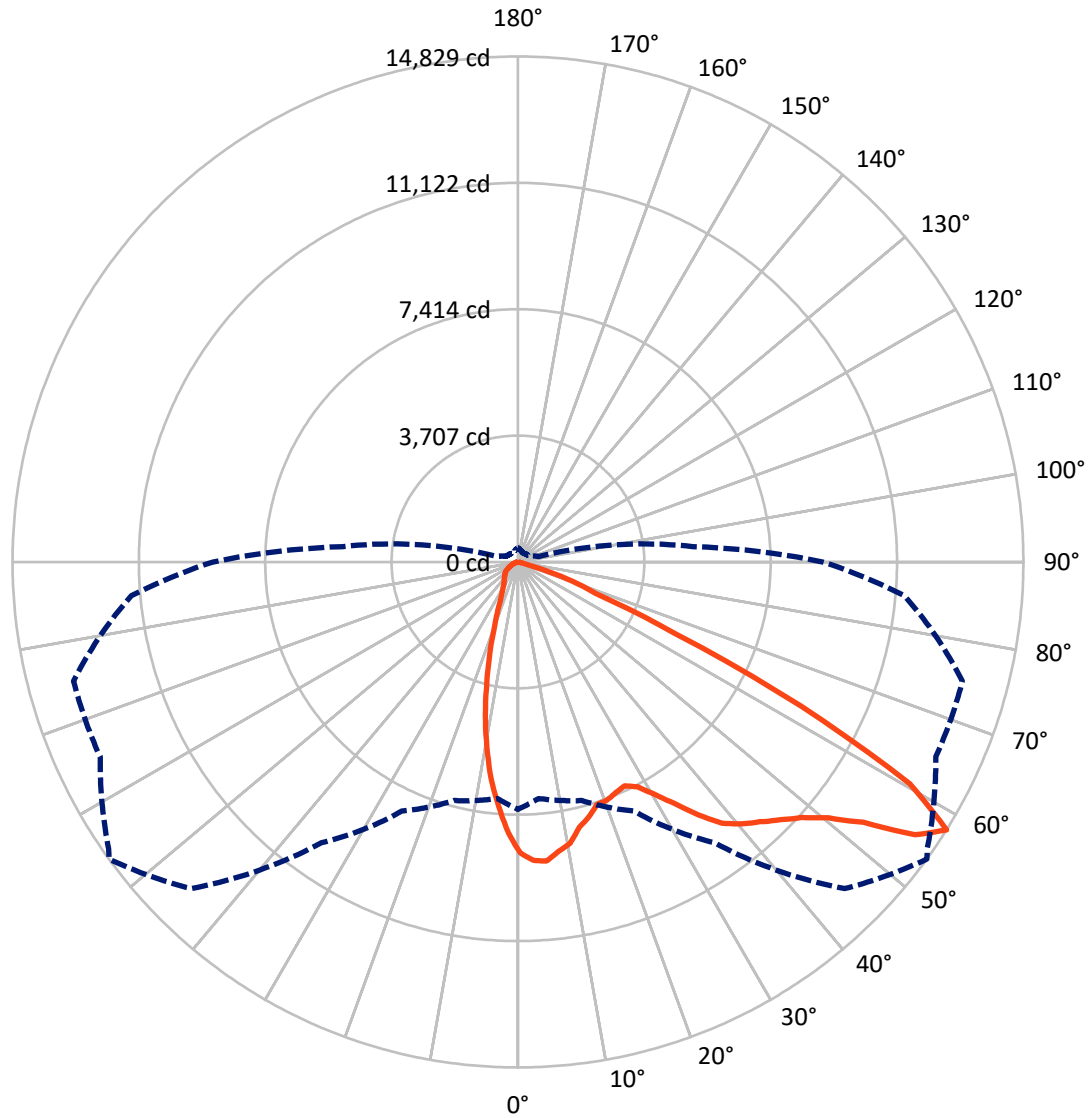
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2739.3	0.0	2739.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16644.7	0.0	16644.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	19384.0	0.0	19384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.6	3.7
10°-20°	1525.6	7.9
20°-30°	2021.7	10.4
30°-40°	2938.0	15.2
40°-50°	4356.7	22.5
50°-60°	5447.9	28.1
60°-70°	2148.9	11.1
70°-80°	214.0	1.1
80°-90°	16.6	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°	19384.0	100.0
0°-180°	19384.0	100.0

Coefficient of Utilization



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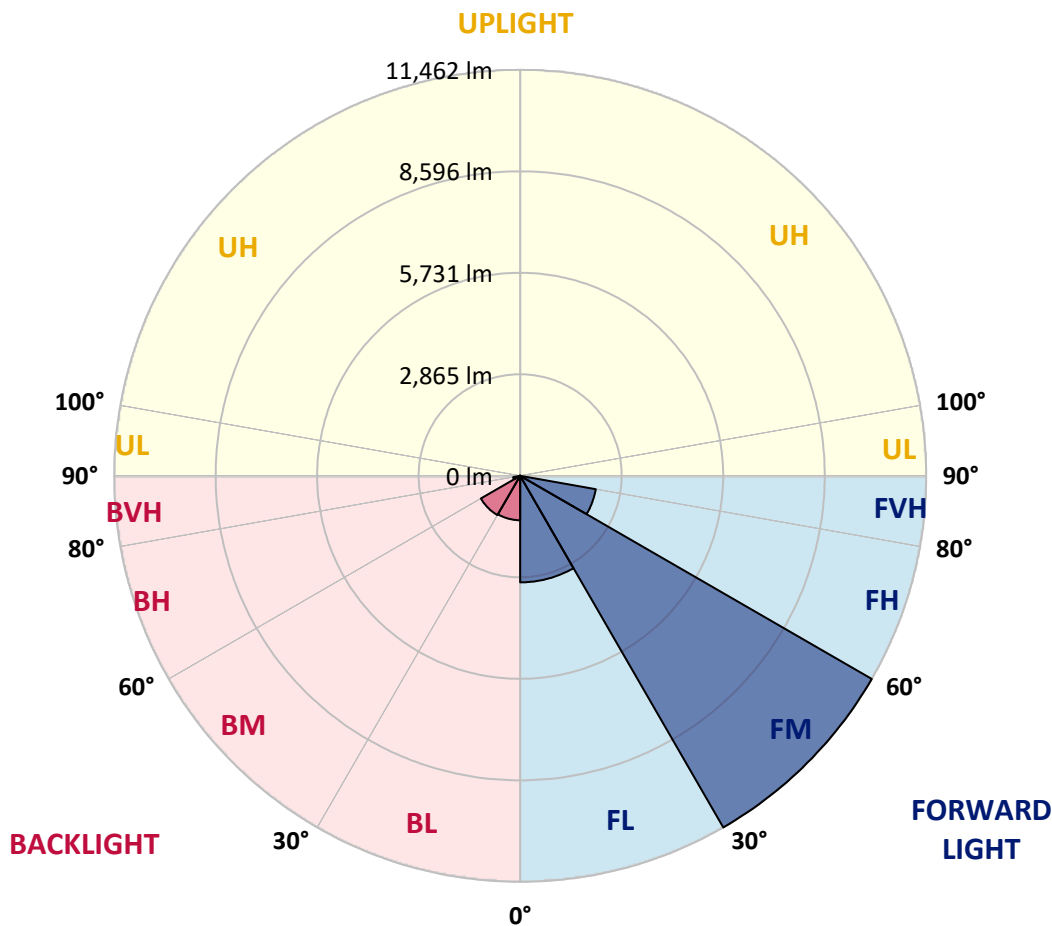
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3009.0	15.5			
FM (30°-60°)	11461.7	59.1			
FH (60°-80°)	2166.5	11.2			G2/5000
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	1252.8	6.5	B3/2500		
BM (30°-60°)	1281.0	6.6	B2/2500		
BH (60°-80°)	196.4	1.0	B1/500		G1/500
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9
2.5°	9036.3	8942.6	8949.8	8917.4	8874.1	8906.6	8766.0	8798.4	8794.8	8603.8	8477.6
5°	8809.2	8910.2	8805.6	8892.1	8809.2	8899.4	8812.9	8748.0	8643.4	8502.9	8268.6
7.5°	8423.6	8326.3	8355.1	8463.2	8481.2	8683.1	8575.0	8657.9	8614.6	8337.1	8016.3
10°	7648.6	7627.0	7771.2	7915.3	8092.0	8308.2	8391.1	8344.3	8311.8	8207.3	7778.4
12.5°	7053.9	7115.2	7111.6	7349.4	7648.6	7771.2	7987.4	7980.2	8160.4	7965.8	7554.9
15°	6488.0	6520.4	6671.8	6819.6	7151.2	7500.8	7767.6	7803.6	8019.9	7882.9	7381.9
17.5°	6142.0	6095.1	6214.1	6390.7	6729.5	7187.2	7482.8	7569.3	7864.9	7836.0	7183.6
20°	5799.5	5799.5	5896.9	6105.9	6415.9	6931.3	7457.6	7432.4	7864.9	7782.0	6971.0
22.5°	5684.2	5741.9	5767.1	5925.7	6293.3	6736.7	7349.4	7396.3	7926.2	7756.7	6877.3
25°	5842.8	5767.1	5774.3	5900.5	6246.5	6643.0	7270.2	7374.7	8037.9	7882.9	6801.6
27.5°	5868.0	5943.7	5965.3	6051.9	6282.5	6671.8	7468.4	7681.1	8315.4	8178.5	6823.2
30°	6087.9	6163.6	6160.0	6307.8	6466.4	6906.1	7911.7	7955.0	8888.5	8549.7	6956.6
32.5°	6354.6	6433.9	6459.2	6632.2	6758.3	7335.0	8452.4	8564.1	9440.0	9133.6	7306.2
35°	6686.2	6657.4	6772.7	6945.8	7216.1	7962.2	9112.0	9299.4	10034.8	9890.6	7666.6
37.5°	7100.7	7064.7	7176.4	7457.6	7825.2	8704.7	9721.2	9843.7	10467.3	10593.4	8333.5
40°	7392.7	7407.1	7745.9	8124.4	8513.7	9411.2	10106.8	10225.8	10770.1	11249.5	8838.1
42.5°	7879.3	7969.4	8376.7	8838.1	9245.4	9941.0	10420.4	10535.8	10910.6	11775.7	9519.3
45°	8585.8	8546.1	8996.7	9512.1	9962.7	10492.5	10791.7	10752.0	10993.5	12298.3	9948.2
47.5°	9494.1	9501.3	9800.5	10240.2	10708.8	10971.9	11206.2	11065.6	11166.5	12849.8	10521.4
50°	10114.1	10168.1	10409.6	10860.2	11094.5	11498.2	11797.3	11710.8	11678.4	13181.4	10881.8
52.5°	10272.6	10434.8	10564.6	11126.9	11674.8	12312.8	12694.8	12878.7	12301.9	13293.2	11339.6
55°	9076.0	9220.2	9677.9	10449.3	11894.6	13603.1	14129.4	14133.0	13116.5	13790.6	11660.4
57.5°	7255.7	6963.8	7244.9	8063.1	10056.4	13549.1	14828.7	14659.2	13523.9	13498.6	11382.8
60°	5017.4	4945.3	4963.3	5287.7	6960.2	10777.3	13213.9	13433.7	12453.3	11700.0	9011.1
62.5°	3975.7	3914.4	3835.1	3799.1	4321.7	6715.1	9321.1	9631.1	8708.3	7587.3	5341.8
65°	3114.2	3078.2	3089.0	3233.2	3229.6	3809.9	5096.7	4970.5	3979.3	2941.2	1679.7
67.5°	2101.4	2155.5	2198.7	2634.8	2858.3	2652.9	2461.8	2389.7	1294.0	544.3	371.3
70°	1182.3	1189.5	1236.3	1647.2	2169.9	2058.1	1697.7	1697.7	645.2	198.2	212.7
72.5°	645.2	623.6	580.3	710.1	966.0	980.4	756.9	659.6	191.0	129.8	118.9
75°	313.6	310.0	266.7	219.9	209.1	173.0	133.4	122.6	86.5	82.9	72.1
77.5°	64.9	61.3	32.4	32.4	36.0	39.6	50.5	50.5	61.3	61.3	50.5
80°	0.0	0.0	3.6	14.4	25.2	36.0	43.3	43.3	50.5	50.5	39.6
82.5°	0.0	0.0	3.6	10.8	21.6	32.4	39.6	43.3	50.5	54.1	43.3
85°	0.0	0.0	0.0	7.2	18.0	25.2	21.6	21.6	18.0	14.4	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9
2.5°	8412.8	8405.5	8239.7	8146.0	7976.6	7828.8	7709.9	7623.4	7623.4	7569.3	7518.9
5°	8174.9	8113.6	7760.4	7533.3	7212.5	6974.6	6812.4	6686.2	6488.0	6542.1	6329.4
7.5°	7879.3	7724.3	7255.7	6909.7	6466.4	6127.5	5781.5	5475.1	5179.6	5046.2	5118.3
10°	7562.1	7291.8	6661.0	6113.1	5561.6	4941.7	4538.0	4047.8	3745.0	3727.0	3647.7
12.5°	7226.9	6920.5	6152.8	5395.8	4671.4	3925.2	3308.9	2851.1	2645.7	2418.6	2461.8
15°	6974.6	6520.4	5586.9	4675.0	3712.6	2959.2	2339.3	1986.0	1791.4	1737.3	1719.3
17.5°	6700.6	6214.1	5010.2	3907.2	2912.4	2130.2	1683.3	1513.9	1438.2	1438.2	1427.4
20°	6415.9	5868.0	4437.1	3193.5	2184.3	1589.6	1348.1	1294.0	1290.4	1286.8	1286.8
22.5°	6228.5	5471.5	3918.0	2537.5	1647.2	1272.4	1171.4	1149.8	1164.2	1207.5	1207.5
25°	6030.2	5089.5	3344.9	1957.2	1276.0	1092.1	1034.5	1048.9	1084.9	1124.6	1110.2
27.5°	5828.4	4840.8	2804.3	1535.5	1045.3	955.2	933.5	966.0	1005.6	1041.7	1030.9
30°	5781.5	4574.0	2292.4	1164.2	897.5	832.6	847.0	875.9	915.5	929.9	944.4
32.5°	5853.6	4365.0	1877.9	955.2	782.2	764.1	764.1	778.6	803.8	836.2	825.4
35°	6059.1	4246.0	1485.0	829.0	717.3	699.3	695.7	710.1	724.5	735.3	724.5
37.5°	6372.6	4152.3	1214.7	735.3	674.0	645.2	638.0	634.4	648.8	652.4	659.6
40°	6772.7	4202.8	1030.9	677.6	630.8	598.3	576.7	576.7	576.7	587.5	591.1
42.5°	7205.3	4271.3	890.3	645.2	591.1	551.5	529.9	522.6	529.9	544.3	540.7
45°	7659.4	4404.6	800.2	594.7	555.1	504.6	475.8	468.6	486.6	515.4	511.8
47.5°	8084.8	4595.7	731.7	562.3	519.0	472.2	436.1	428.9	461.4	501.0	504.6
50°	8510.1	4927.3	706.5	537.1	493.8	439.7	407.3	400.1	436.1	486.6	497.4
52.5°	9000.3	5284.1	688.4	504.6	465.0	414.5	378.5	371.3	410.9	475.8	479.4
55°	9321.1	5586.9	674.0	447.0	410.9	374.9	346.0	342.4	385.7	443.3	457.8
57.5°	8946.2	5165.2	623.6	389.3	349.6	331.6	306.4	306.4	342.4	396.5	407.3
60°	6783.6	3399.0	443.3	313.6	295.6	284.8	273.9	273.9	302.8	342.4	346.0
62.5°	3972.1	1831.1	284.8	252.3	252.3	241.5	223.5	223.5	252.3	273.9	277.5
65°	1178.7	587.5	230.7	216.3	212.7	194.6	176.6	173.0	194.6	205.5	201.8
67.5°	338.8	270.3	191.0	180.2	176.6	147.8	137.0	133.4	137.0	129.8	126.2
70°	201.8	183.8	147.8	151.4	133.4	108.1	97.3	93.7	86.5	75.7	68.5
72.5°	111.7	111.7	108.1	115.3	93.7	72.1	61.3	50.5	39.6	32.4	28.8
75°	68.5	72.1	75.7	79.3	61.3	46.9	39.6	25.2	14.4	7.2	7.2
77.5°	46.9	50.5	54.1	57.7	50.5	43.3	32.4	18.0	3.6	0.0	0.0
80°	36.0	39.6	46.9	50.5	54.1	57.7	43.3	18.0	3.6	0.0	0.0
82.5°	39.6	43.3	54.1	50.5	50.5	50.5	39.6	18.0	3.6	0.0	0.0
85°	7.2	10.8	18.0	18.0	25.2	32.4	25.2	7.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)