

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: P531743

Luminaire Tested: **GALN-SA7A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531743
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-SA7A-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 18627 lumens
Efficiency: N/A
Efficacy: 86.6 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

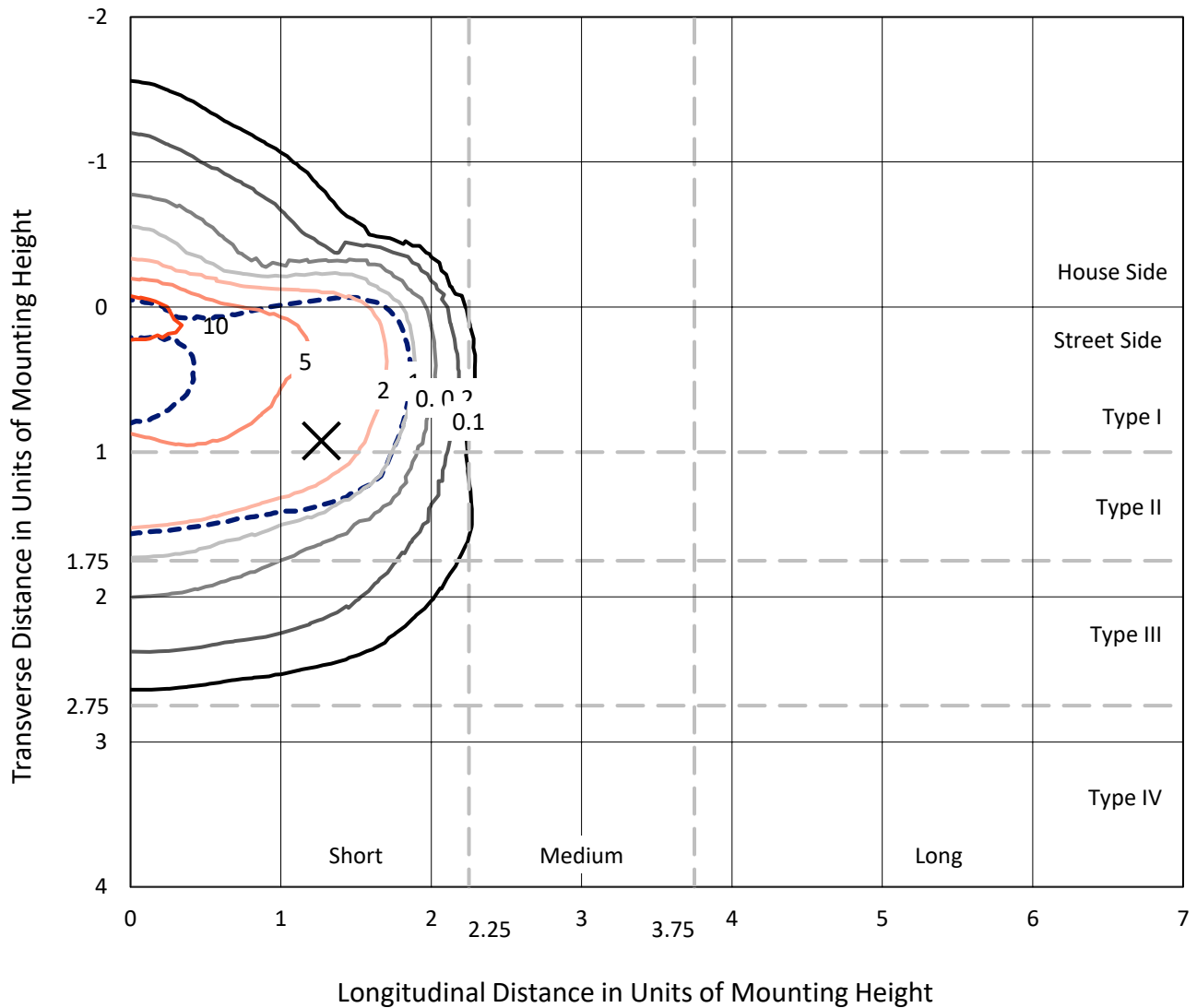
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

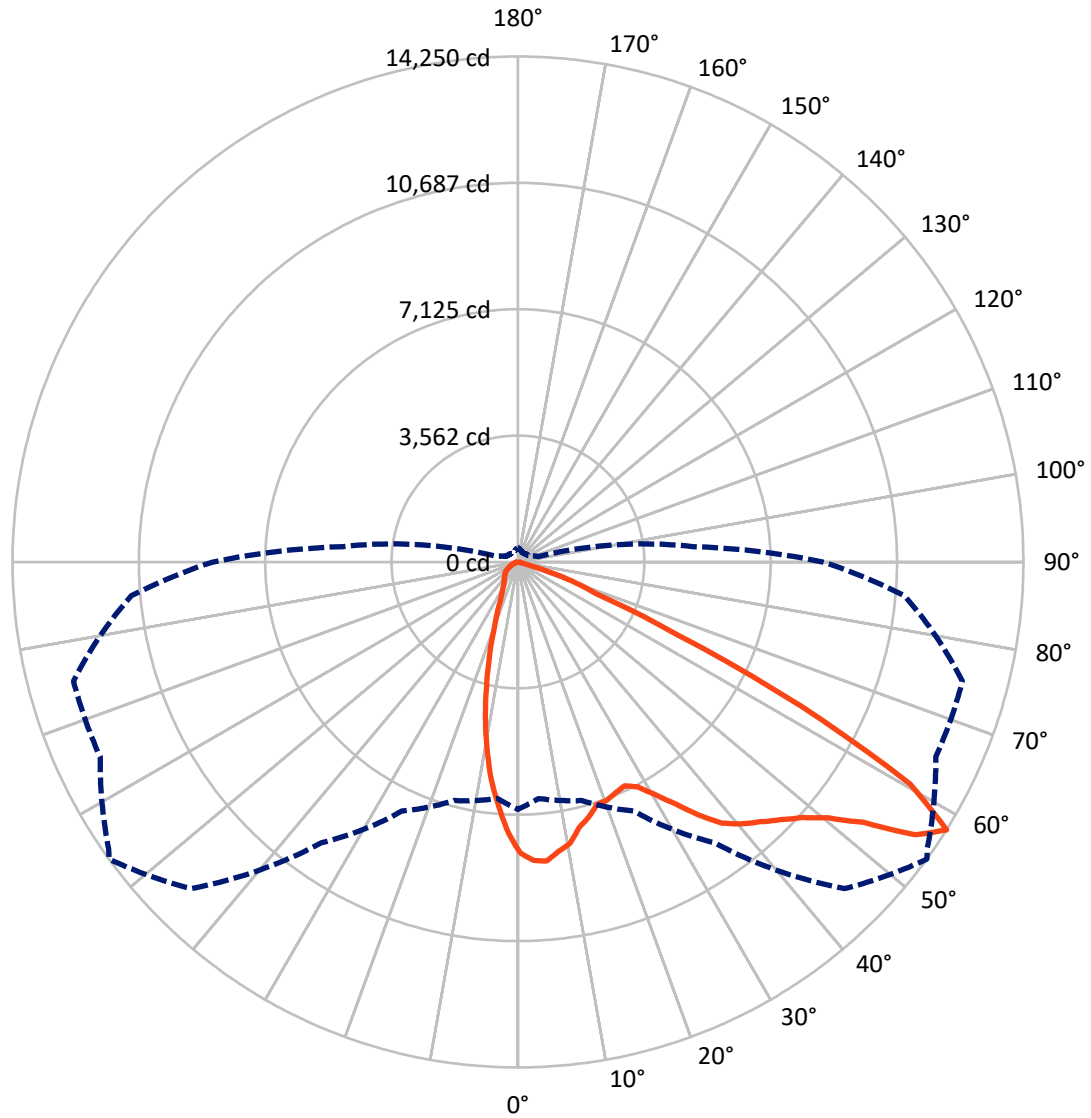
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	2632.3	0.0	2632.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15994.7	0.0	15994.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	18627.0	0.0	18627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.7	3.7
10°-20°	1466.0	7.9
20°-30°	1942.7	10.4
30°-40°	2823.3	15.2
40°-50°	4186.6	22.5
50°-60°	5235.1	28.1
60°-70°	2065.0	11.1
70°-80°	205.6	1.1
80°-90°	16.0	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°	18627.0	100.0
0°-180°	18627.0	100.0

Coefficient of Utilization



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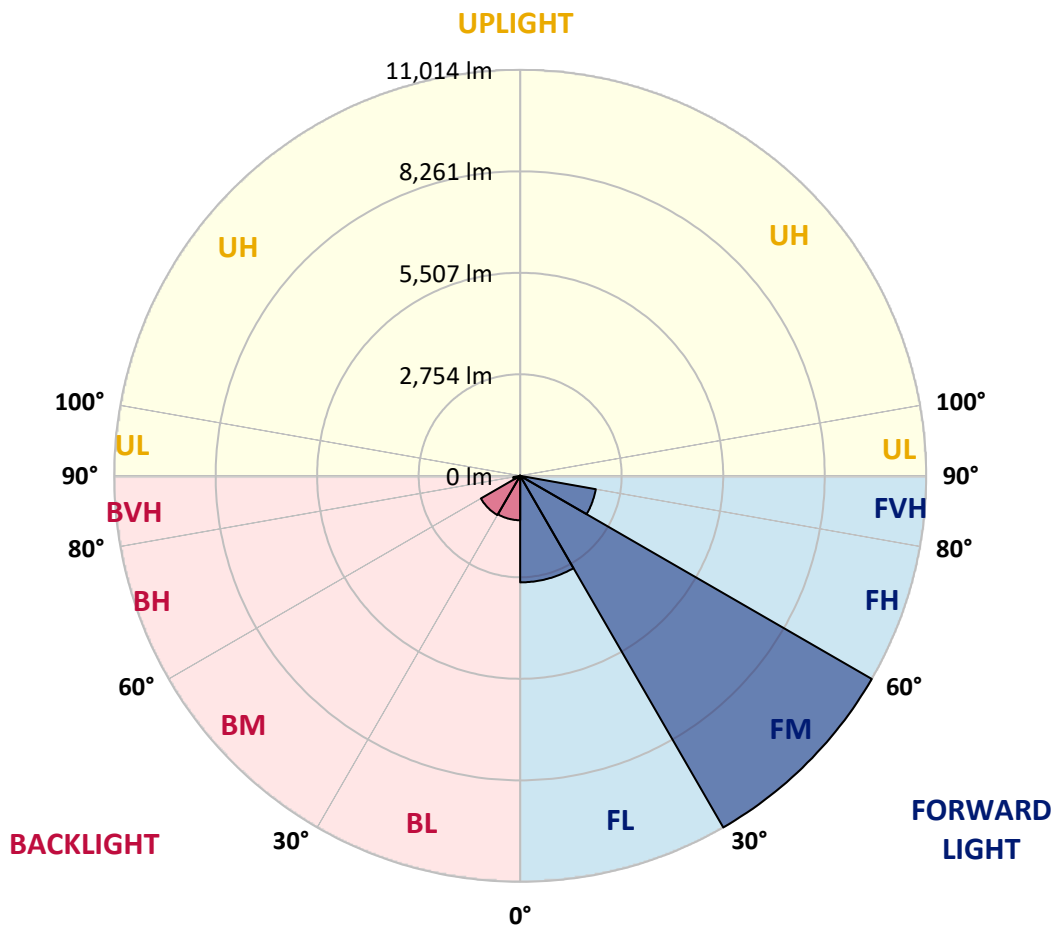
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.5	15.5			
FM (30°-60°)	11014.1	59.1			
FH (60°-80°)	2081.9	11.2			G2/5000
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	1203.9	6.5	B3/2500		
BM (30°-60°)	1230.9	6.6	B2/2500		
BH (60°-80°)	188.8	1.0	B1/500		G1/500
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4
2.5°	8683.4	8593.4	8600.3	8569.1	8527.6	8558.7	8423.7	8454.8	8451.4	8267.8	8146.6
5°	8465.2	8562.2	8461.8	8544.9	8465.2	8551.8	8468.7	8406.3	8305.9	8170.8	7945.7
7.5°	8094.6	8001.1	8028.8	8132.7	8150.0	8344.0	8240.1	8319.7	8278.2	8011.5	7703.2
10°	7349.9	7329.1	7467.7	7606.2	7775.9	7983.8	8063.4	8018.4	7987.2	7886.8	7474.6
12.5°	6778.4	6837.3	6833.8	7062.4	7349.9	7467.7	7675.5	7668.6	7841.8	7654.7	7259.9
15°	6234.6	6265.8	6411.3	6553.3	6871.9	7207.9	7464.2	7498.9	7706.7	7575.1	7093.6
17.5°	5902.1	5857.1	5971.4	6141.1	6466.7	6906.6	7190.6	7273.7	7557.7	7530.0	6903.1
20°	5573.1	5573.1	5666.6	5867.5	6165.3	6660.6	7166.3	7142.1	7557.7	7478.1	6698.7
22.5°	5462.2	5517.6	5541.9	5694.3	6047.6	6473.6	7062.4	7107.5	7616.6	7453.8	6608.7
25°	5614.6	5541.9	5548.8	5670.0	6002.5	6383.6	6986.2	7086.7	7724.0	7575.1	6536.0
27.5°	5638.9	5711.6	5732.4	5815.5	6037.2	6411.3	7176.7	7381.1	7990.7	7859.1	6556.7
30°	5850.1	5922.9	5919.4	6061.4	6213.8	6636.4	7602.8	7644.3	8541.4	8215.8	6684.9
32.5°	6106.5	6182.7	6206.9	6373.2	6494.4	7048.6	8122.3	8229.7	9071.4	8777.0	7020.9
35°	6425.1	6397.4	6508.2	6674.5	6934.3	7651.3	8756.2	8936.3	9642.9	9504.3	7367.2
37.5°	6823.4	6788.8	6896.2	7166.3	7519.6	8364.8	9341.5	9459.3	10058.5	10179.7	8008.0
40°	7104.0	7117.9	7443.4	7807.1	8181.2	9043.7	9712.1	9826.4	10349.5	10810.1	8492.9
42.5°	7571.6	7658.2	8049.6	8492.9	8884.3	9552.8	10013.5	10124.3	10484.5	11315.8	9147.6
45°	8250.5	8212.4	8645.3	9140.6	9573.6	10082.8	10370.2	10332.1	10564.2	11818.1	9559.7
47.5°	9123.3	9130.2	9417.7	9840.3	10290.6	10543.4	10768.6	10633.5	10730.5	12348.0	10110.5
50°	9719.1	9771.0	10003.1	10436.1	10661.2	11049.1	11336.6	11253.5	11222.3	12666.7	10456.8
52.5°	9871.5	10027.3	10152.0	10692.4	11218.8	11831.9	12199.1	12375.7	11821.5	12774.0	10896.7
55°	8721.5	8860.1	9300.0	10041.2	11430.1	13071.9	13577.6	13581.1	12604.3	13252.0	11205.0
57.5°	6972.4	6691.8	6962.0	7748.2	9663.7	13020.0	14249.6	14086.8	12995.7	12971.5	10938.3
60°	4821.4	4752.2	4769.5	5081.2	6688.4	10356.4	12697.8	12909.1	11967.0	11243.1	8659.2
62.5°	3820.4	3761.6	3685.3	3650.7	4152.9	6452.8	8957.1	9254.9	8368.2	7291.0	5133.2
65°	2992.6	2958.0	2968.4	3106.9	3103.5	3661.1	4897.6	4776.4	3823.9	2826.4	1614.1
67.5°	2019.3	2071.3	2112.8	2531.9	2746.7	2549.3	2365.7	2296.4	1243.5	523.0	356.8
70°	1136.1	1143.0	1188.0	1582.9	2085.1	1977.8	1631.4	1631.4	620.0	190.5	204.4
72.5°	620.0	599.2	557.7	682.3	928.3	942.1	727.4	633.9	183.6	124.7	114.3
75°	301.3	297.9	256.3	211.3	200.9	166.3	128.2	117.8	83.1	79.7	69.3
77.5°	62.3	58.9	31.2	31.2	34.6	38.1	48.5	48.5	58.9	58.9	48.5
80°	0.0	0.0	3.5	13.9	24.2	34.6	41.6	41.6	48.5	48.5	38.1
82.5°	0.0	0.0	3.5	10.4	20.8	31.2	38.1	41.6	48.5	52.0	41.6
85°	0.0	0.0	0.0	6.9	17.3	24.2	20.8	20.8	17.3	13.9	6.9
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°	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4	8205.4
2.5°	8084.2	8077.3	7918.0	7827.9	7665.1	7523.1	7408.8	7325.7	7325.7	7273.7	7225.2
5°	7855.6	7796.7	7457.3	7239.1	6930.8	6702.2	6546.3	6425.1	6234.6	6286.6	6082.2
7.5°	7571.6	7422.7	6972.4	6639.9	6213.8	5888.2	5555.7	5261.3	4977.3	4849.1	4918.4
10°	7266.8	7007.0	6400.9	5874.4	5344.4	4748.7	4360.8	3889.7	3598.8	3581.4	3505.2
12.5°	6944.7	6650.3	5912.5	5185.1	4488.9	3771.9	3179.7	2739.8	2542.3	2324.1	2365.7
15°	6702.2	6265.8	5368.7	4492.4	3567.6	2843.7	2247.9	1908.5	1721.4	1669.5	1652.2
17.5°	6439.0	5971.4	4814.5	3754.6	2798.6	2047.0	1617.5	1454.7	1382.0	1382.0	1371.6
20°	6165.3	5638.9	4263.8	3068.8	2099.0	1527.5	1295.4	1243.5	1240.0	1236.5	1236.5
22.5°	5985.2	5257.9	3765.0	2438.4	1582.9	1222.7	1125.7	1104.9	1118.8	1160.3	1160.3
25°	5794.7	4890.7	3214.3	1880.8	1226.1	1049.5	994.1	1007.9	1042.6	1080.7	1066.8
27.5°	5600.8	4651.7	2694.7	1475.5	1004.5	917.9	897.1	928.3	966.4	1001.0	990.6
30°	5555.7	4395.4	2202.9	1118.8	862.5	800.1	814.0	841.7	879.8	893.6	907.5
32.5°	5625.0	4194.5	1804.6	917.9	751.6	734.3	734.3	748.2	772.4	803.6	793.2
35°	5822.4	4080.2	1427.0	796.6	689.3	672.0	668.5	682.3	696.2	706.6	696.2
37.5°	6123.8	3990.2	1167.3	706.6	647.7	620.0	613.1	609.6	623.5	626.9	633.9
40°	6508.2	4038.6	990.6	651.2	606.1	575.0	554.2	554.2	554.2	564.6	568.0
42.5°	6923.9	4104.5	855.5	620.0	568.0	529.9	509.2	502.2	509.2	523.0	519.6
45°	7360.3	4232.6	768.9	571.5	533.4	484.9	457.2	450.3	467.6	495.3	491.8
47.5°	7769.0	4416.2	703.1	540.3	498.8	453.7	419.1	412.2	443.4	481.5	484.9
50°	8177.7	4734.8	678.9	516.1	474.5	422.6	391.4	384.5	419.1	467.6	478.0
52.5°	8648.8	5077.7	661.6	484.9	446.8	398.3	363.7	356.8	394.9	457.2	460.7
55°	8957.1	5368.7	647.7	429.5	394.9	360.2	332.5	329.0	370.6	426.0	439.9
57.5°	8596.8	4963.4	599.2	374.1	336.0	318.7	294.4	294.4	329.0	381.0	391.4
60°	6518.6	3266.2	426.0	301.3	284.0	273.6	263.2	263.2	290.9	329.0	332.5
62.5°	3817.0	1759.5	273.6	242.5	242.5	232.1	214.7	214.7	242.5	263.2	266.7
65°	1132.6	564.6	221.7	207.8	204.4	187.0	169.7	166.3	187.0	197.4	194.0
67.5°	325.6	259.8	183.6	173.2	169.7	142.0	131.6	128.2	131.6	124.7	121.2
70°	194.0	176.6	142.0	145.5	128.2	103.9	93.5	90.1	83.1	72.7	65.8
72.5°	107.4	107.4	103.9	110.8	90.1	69.3	58.9	48.5	38.1	31.2	27.7
75°	65.8	69.3	72.7	76.2	58.9	45.0	38.1	24.2	13.9	6.9	6.9
77.5°	45.0	48.5	52.0	55.4	48.5	41.6	31.2	17.3	3.5	0.0	0.0
80°	34.6	38.1	45.0	48.5	52.0	55.4	41.6	17.3	3.5	0.0	0.0
82.5°	38.1	41.6	52.0	48.5	48.5	48.5	38.1	17.3	3.5	0.0	0.0
85°	6.9	10.4	17.3	17.3	24.2	31.2	24.2	6.9	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)