

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: P529791

Luminaire Tested: **GALN-SA5A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529791
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-SA5A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 11179 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

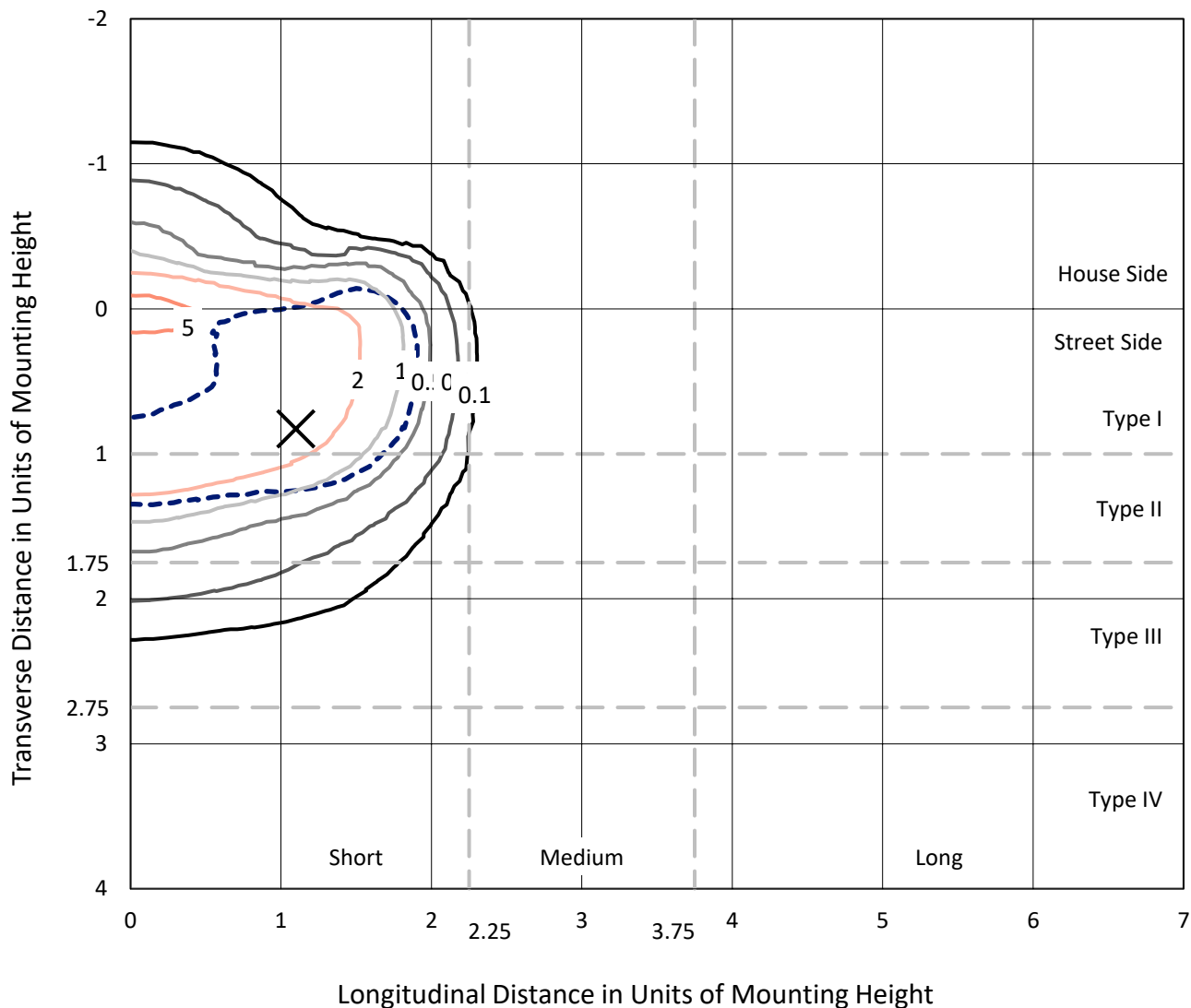
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

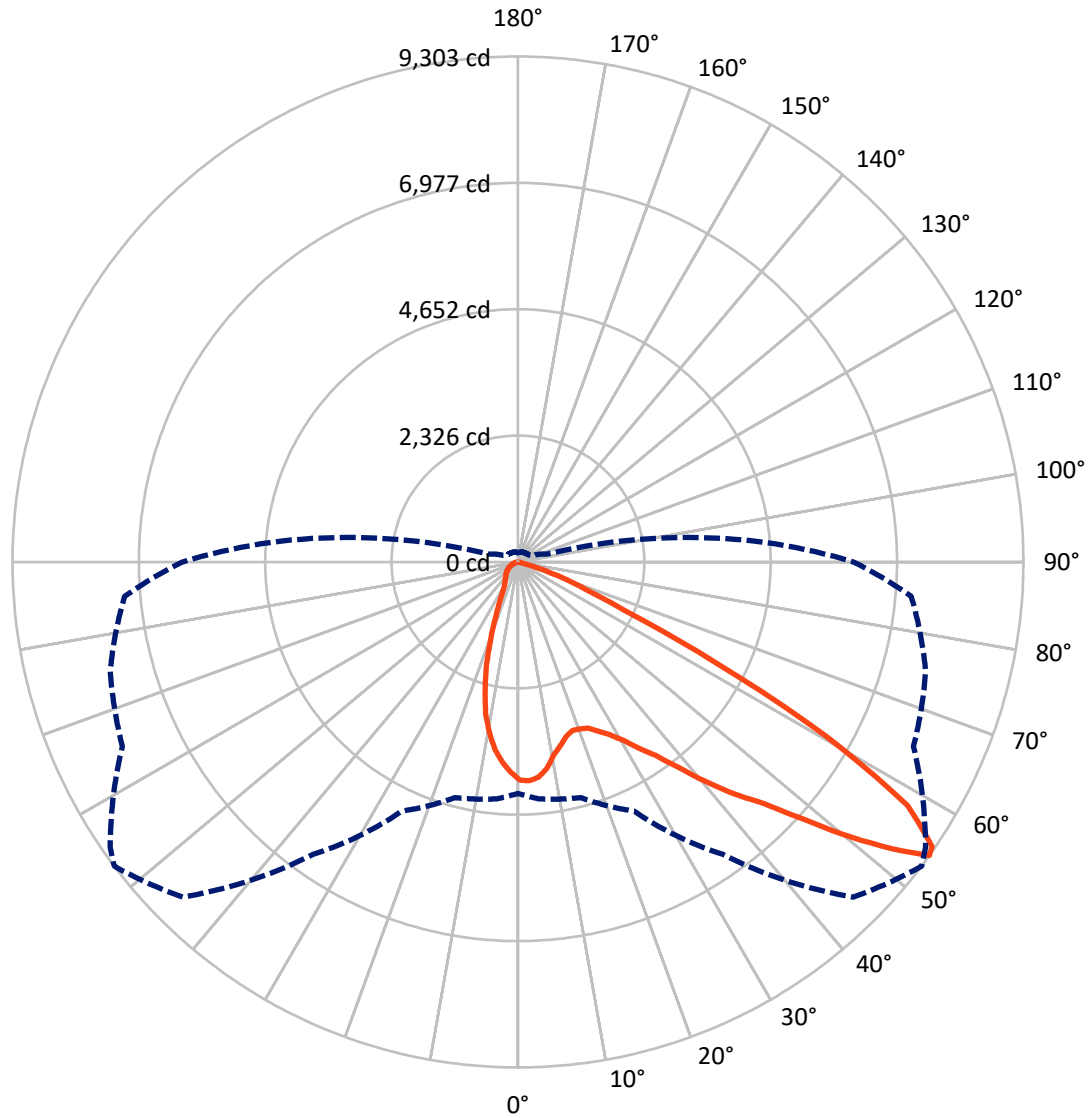
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1849.6	0.0	1849.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9329.4	0.0	9329.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	11179.0	0.0	11179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.1
10°-20°	789.8	7.1
20°-30°	1122.5	10.0
30°-40°	1732.4	15.5
40°-50°	2716.2	24.3
50°-60°	3155.2	28.2
60°-70°	1192.2	10.7
70°-80°	113.4	1.0
80°-90°	12.8	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°	11179.0	100.0
0°-180°	11179.0	100.0

Coefficient of Utilization



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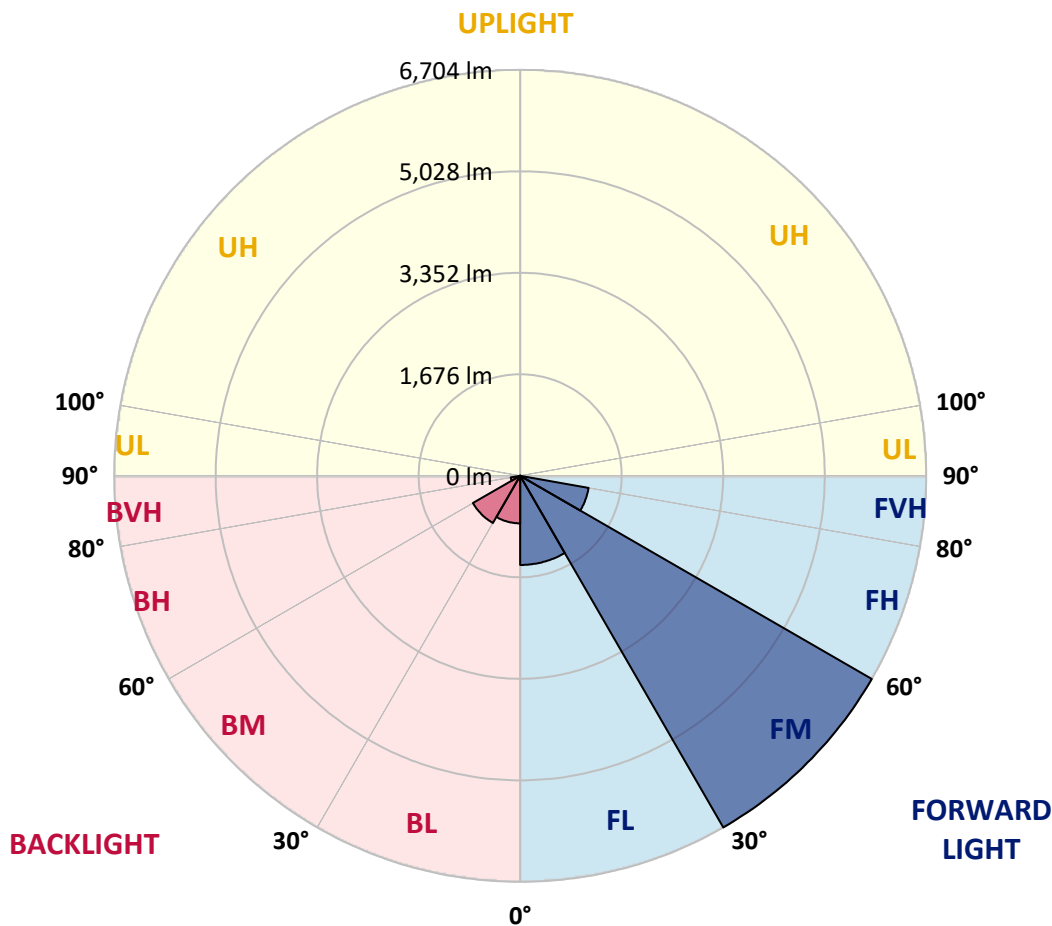
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.0	13.2			
FM (30°-60°)	6703.7	60.0			
FH (60°-80°)	1147.1	10.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	784.9	7.0	B2/1000		
BM (30°-60°)	900.1	8.1	B1/1000		
BH (60°-80°)	158.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3
2.5°	3994.5	3959.1	3994.5	3998.6	4023.6	4046.5	4032.0	4065.3	4046.5	4025.7	4019.5
5°	3671.7	3719.6	3721.7	3796.6	3780.0	3917.4	3977.8	3961.2	4063.2	4057.0	4042.4
7.5°	3382.2	3363.4	3388.4	3475.9	3586.3	3744.6	3832.0	3830.0	3975.7	4079.9	4069.5
10°	3113.5	3111.4	3163.5	3232.2	3326.0	3492.6	3613.4	3673.8	3900.8	4059.0	4082.0
12.5°	2932.3	2924.0	2980.2	3036.5	3184.3	3313.5	3467.6	3496.7	3757.1	3986.2	4023.6
15°	2813.6	2832.4	2836.5	2944.8	3038.6	3209.3	3330.1	3390.5	3690.4	3927.8	4071.5
17.5°	2792.8	2817.8	2819.9	2909.4	3009.4	3153.1	3259.3	3340.5	3634.2	3957.0	4073.6
20°	2834.5	2819.9	2832.4	2888.6	2986.5	3123.9	3278.1	3305.1	3615.4	3971.6	4096.5
22.5°	2953.2	2949.0	2917.8	2963.6	3032.3	3176.0	3321.8	3363.4	3669.6	4046.5	4115.3
25°	3084.4	3107.3	3078.1	3071.9	3119.8	3261.4	3455.1	3509.2	3850.8	4181.9	4173.6
27.5°	3330.1	3307.2	3307.2	3278.1	3265.6	3334.3	3598.8	3688.3	4052.8	4356.9	4240.2
30°	3565.5	3590.5	3571.7	3582.1	3498.8	3492.6	3802.9	3913.3	4411.0	4623.4	4381.9
32.5°	3938.3	3904.9	3936.2	3909.1	3798.7	3686.3	4079.9	4194.4	4844.2	4929.6	4594.3
35°	4248.6	4234.0	4367.3	4363.1	4184.0	4073.6	4373.5	4544.3	5146.2	5296.1	4844.2
37.5°	4690.1	4663.0	4815.0	4887.9	4727.6	4563.0	4794.2	4992.1	5427.3	5589.8	5100.4
40°	5144.1	5212.8	5416.9	5537.7	5366.9	5148.3	5308.6	5369.0	5614.8	5781.4	5275.3
42.5°	5718.9	5818.9	6027.1	6131.3	6116.7	5879.3	5831.4	5829.3	5750.1	5727.2	5404.4
45°	6270.8	6233.3	6554.0	6781.0	6964.3	6895.6	6335.4	6272.9	5964.6	5808.5	5437.7
47.5°	6512.4	6499.9	6718.6	7122.6	7747.4	7832.8	7068.4	6826.9	6327.0	6150.0	5618.9
50°	6200.0	6264.5	6481.1	6928.9	7886.9	8538.8	7968.1	7643.2	6749.8	6566.5	6048.0
52.5°	5179.5	5223.2	5429.4	5998.0	7412.1	8955.3	8830.3	8642.9	7526.6	7222.6	6795.6
54°	4259.0	4375.6	4488.1	5058.7	6566.5	8724.1	9303.1	9159.4	8032.7	7768.2	7266.3
55°	3709.2	3777.9	3859.1	4427.7	5981.3	8332.6	9249.0	9261.5	8372.2	7939.0	7582.9
57.5°	2709.5	2757.4	2674.1	2926.1	4106.9	6766.5	8459.6	8797.0	8830.3	8195.1	7776.5
60°	2070.1	2091.0	1997.2	2036.8	2553.3	4644.3	6543.6	6949.7	7966.1	7162.2	6587.4
62.5°	1605.7	1609.9	1607.8	1676.5	1759.8	2732.4	4092.4	4452.7	5491.9	5085.8	4473.5
65°	1182.9	1164.2	1197.5	1405.8	1501.6	1718.2	2155.5	2417.9	2984.4	2520.0	1801.5
67.5°	766.4	772.7	806.0	1045.5	1287.1	1318.3	1326.6	1305.8	1307.9	720.6	451.9
70°	460.3	470.7	460.3	591.5	920.5	945.5	864.3	843.5	658.1	170.8	168.7
72.5°	272.8	258.2	231.2	254.1	383.2	458.2	412.4	410.3	258.2	100.0	100.0
75°	114.5	104.1	85.4	77.1	102.0	97.9	97.9	87.5	68.7	66.6	62.5
77.5°	22.9	22.9	16.7	18.7	25.0	29.2	35.4	35.4	41.7	41.7	39.6
80°	0.0	2.1	6.2	12.5	18.7	27.1	31.2	31.2	35.4	35.4	29.2
82.5°	0.0	2.1	6.2	12.5	16.7	25.0	31.2	31.2	35.4	37.5	31.2
85°	0.0	2.1	6.2	10.4	16.7	20.8	20.8	18.7	14.6	12.5	8.3
87.5°	0.0	0.0	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3
2.5°	4034.1	4032.0	3982.0	3900.8	3882.0	3813.3	3805.0	3763.3	3786.2	3709.2	3700.8
5°	4000.7	3975.7	3915.3	3863.3	3711.2	3602.9	3517.6	3413.4	3353.0	3363.4	3323.9
7.5°	4048.6	3984.1	3877.9	3696.7	3511.3	3321.8	3219.7	3007.3	2930.3	2815.7	2799.1
10°	3998.6	3950.7	3786.2	3486.3	3230.2	2957.3	2717.8	2482.5	2303.4	2226.3	2209.7
12.5°	3994.5	3911.2	3636.3	3303.0	2932.3	2540.8	2193.0	1899.4	1722.3	1622.4	1599.5
15°	3929.9	3830.0	3467.6	3019.8	2507.5	2020.1	1641.1	1357.9	1222.5	1164.2	1180.9
17.5°	3936.2	3786.2	3298.9	2719.9	2088.9	1482.8	1120.5	974.7	939.3	953.8	953.8
20°	3929.9	3688.3	3094.8	2374.2	1599.5	1028.8	822.6	770.6	793.5	839.3	828.9
22.5°	3896.6	3642.5	2907.3	2009.7	1176.7	762.2	660.2	662.3	697.7	753.9	766.4
25°	3921.6	3540.5	2669.9	1641.1	858.0	608.1	572.7	587.3	624.8	666.4	674.8
27.5°	3902.8	3467.6	2422.1	1274.6	626.9	522.7	520.7	537.3	554.0	585.2	585.2
30°	3923.7	3400.9	2178.4	947.6	516.5	479.0	470.7	483.2	499.8	506.1	504.0
32.5°	4000.7	3350.9	1897.3	708.1	456.1	437.4	437.4	437.4	435.3	443.6	445.7
35°	4169.4	3359.3	1649.4	547.7	416.5	401.9	395.7	387.4	383.2	387.4	389.5
37.5°	4352.7	3355.1	1393.3	466.5	387.4	374.9	360.3	347.8	345.7	349.9	343.6
40°	4433.9	3394.7	1155.9	418.6	360.3	345.7	322.8	312.4	314.5	318.6	314.5
42.5°	4544.3	3407.2	1001.7	381.1	335.3	312.4	297.8	285.3	283.2	289.5	287.4
45°	4542.2	3336.4	839.3	360.3	312.4	287.4	268.7	258.2	258.2	262.4	264.5
47.5°	4675.5	3326.0	720.6	341.6	295.7	270.7	247.8	239.5	237.4	237.4	233.3
50°	4985.8	3471.7	629.0	320.7	274.9	252.0	233.3	222.8	214.5	210.3	208.3
52.5°	5591.9	3925.8	558.1	295.7	252.0	233.3	216.6	208.3	197.8	187.4	185.4
54°	6179.2	4394.3	554.0	274.9	233.3	220.8	206.2	202.0	189.5	174.9	170.8
55°	6443.7	4667.2	568.6	258.2	220.8	212.4	199.9	195.8	183.3	166.6	164.5
57.5°	6662.3	4773.4	560.2	214.5	199.9	197.8	187.4	181.2	166.6	143.7	139.5
60°	5362.8	3609.2	401.9	189.5	183.3	179.1	170.8	166.6	147.9	122.9	120.8
62.5°	3388.4	2076.4	256.2	166.6	160.4	154.1	143.7	139.5	122.9	97.9	91.6
65°	1443.3	860.1	172.9	147.9	137.5	127.0	118.7	112.5	97.9	72.9	70.8
67.5°	374.9	306.1	143.7	129.1	114.5	100.0	93.7	83.3	66.6	50.0	47.9
70°	168.7	154.1	120.8	108.3	91.6	77.1	68.7	58.3	43.7	33.3	31.2
72.5°	100.0	97.9	91.6	81.2	68.7	58.3	50.0	39.6	29.2	18.7	18.7
75°	62.5	60.4	62.5	56.2	47.9	43.7	37.5	27.1	16.7	8.3	8.3
77.5°	37.5	37.5	37.5	35.4	33.3	33.3	27.1	16.7	8.3	2.1	2.1
80°	29.2	29.2	31.2	29.2	29.2	29.2	22.9	12.5	4.2	0.0	0.0
82.5°	29.2	31.2	35.4	33.3	29.2	25.0	20.8	12.5	4.2	0.0	0.0
85°	8.3	6.2	10.4	14.6	20.8	18.7	14.6	10.4	4.2	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	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)