

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: P453937

Luminaire Tested: **GALN-SA5A-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17070 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

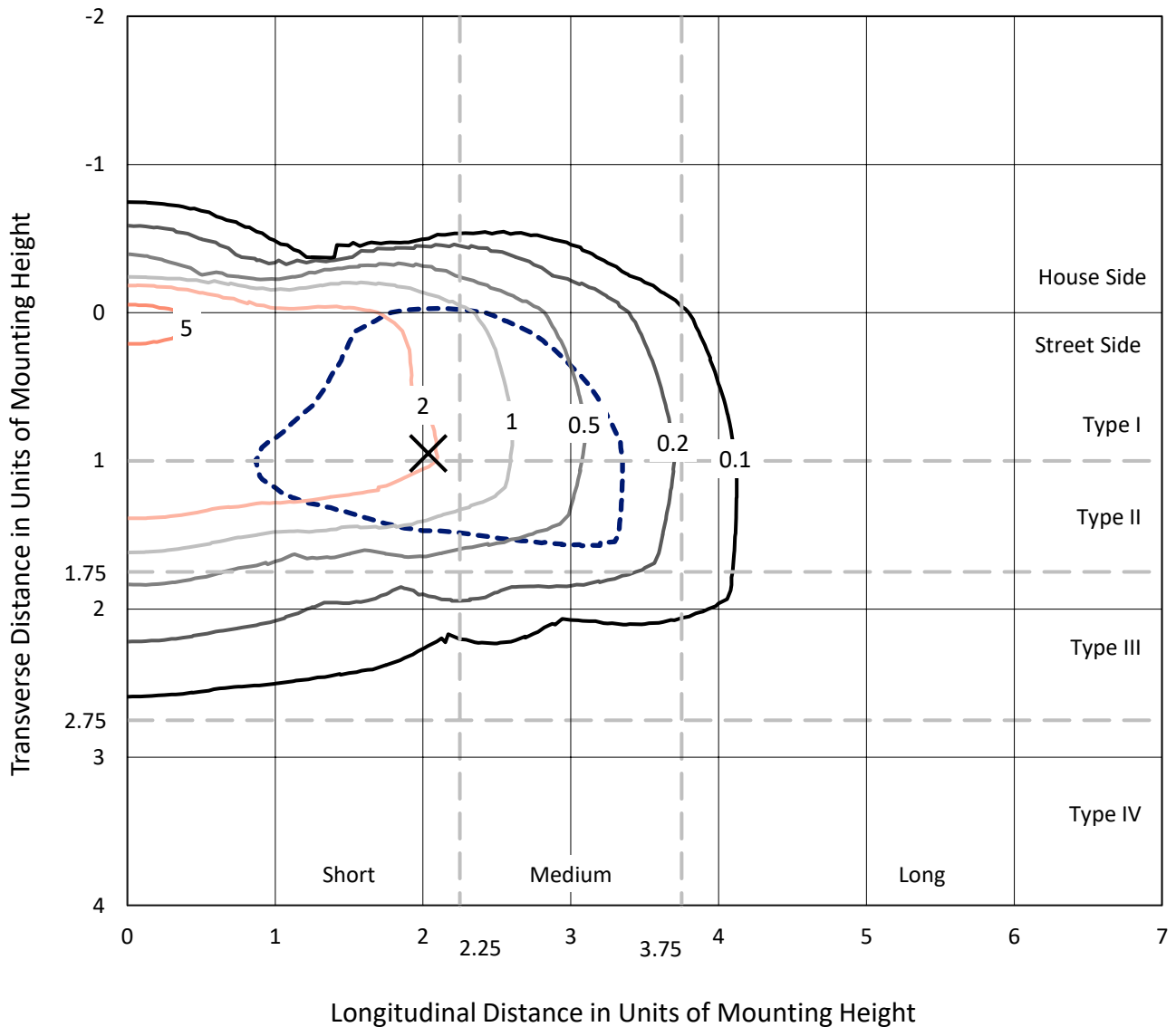
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

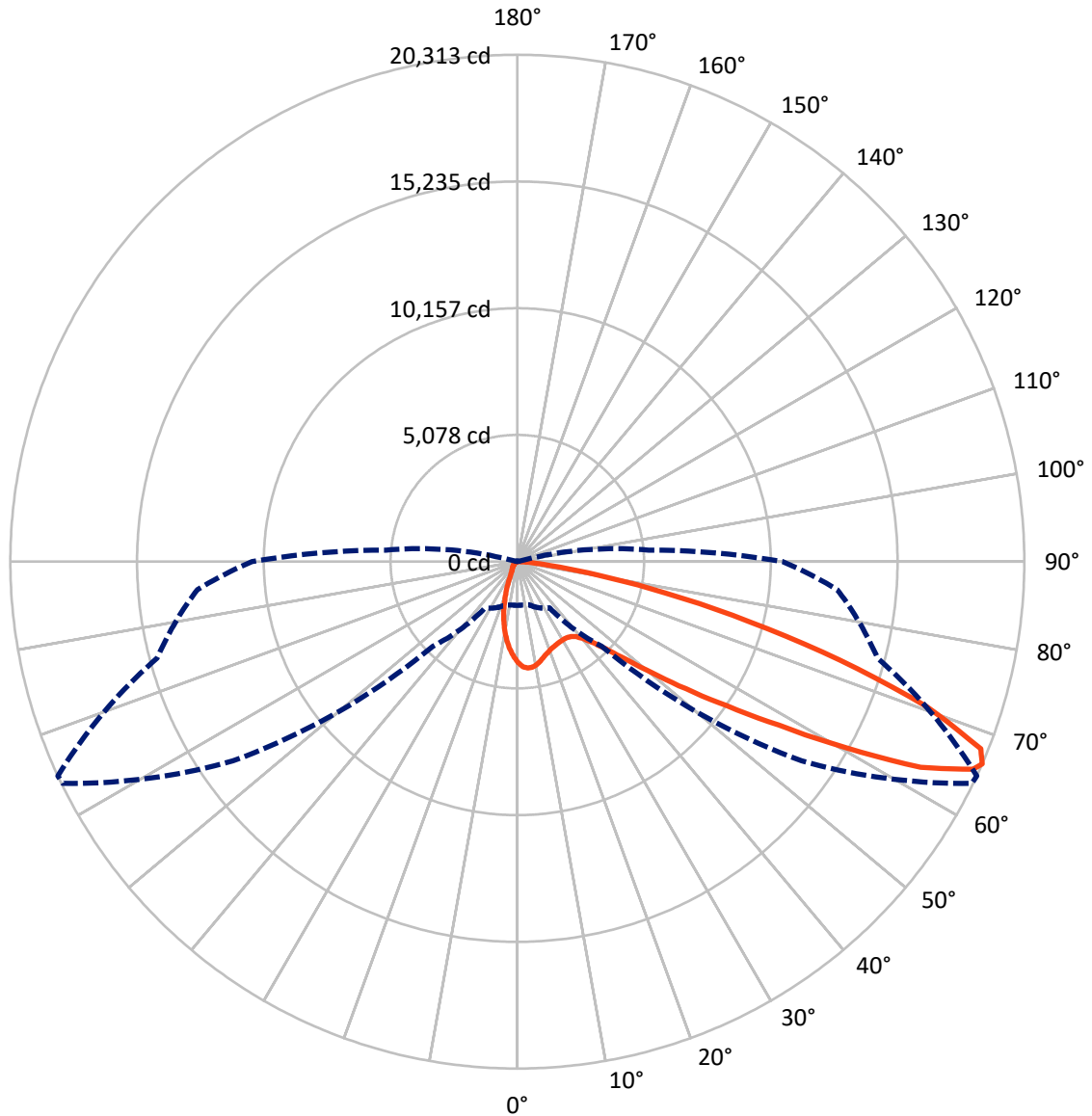
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.3	0.0	1765.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15304.7	0.0	15304.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	17070.0	0.0	17070.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.9
10°-20°	721.3	4.2
20°-30°	1033.3	6.1
30°-40°	1509.2	8.8
40°-50°	2530.7	14.8
50°-60°	4223.4	24.7
60°-70°	4483.0	26.3
70°-80°	2030.3	11.9
80°-90°	207.7	1.2
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°	17070.0	100.0
0°-180°	17070.0	100.0



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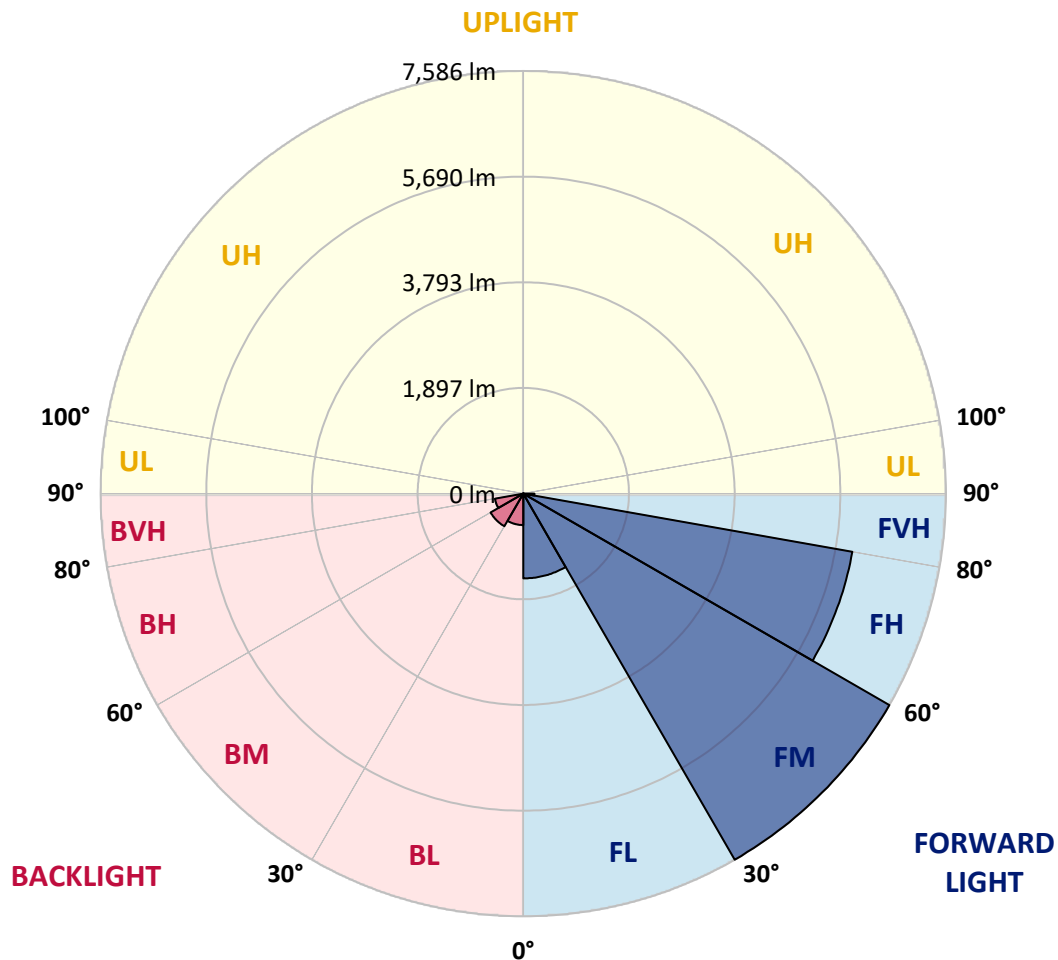
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.0	8.9			
FM (30°-60°)	7586.3	44.4			
FH (60°-80°)	5996.3	35.1			G3/7500
FVH (80°-90°)	201.1	1.2			G2/225
BL (0°-30°)	564.7	3.3	B2/1000		
BM (30°-60°)	677.0	4.0	B1/1000		
BH (60°-80°)	517.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9
2.5°	4265.8	4270.4	4276.2	4284.3	4290.0	4272.7	4248.5	4220.9	4215.1	4156.3	4084.8
5°	4037.6	4044.5	4095.2	4122.9	4185.1	4241.6	4277.4	4282.0	4279.7	4224.3	4110.2
7.5°	3712.4	3732.0	3781.6	3830.0	3946.5	4053.7	4180.5	4269.3	4275.1	4260.1	4118.3
10°	3448.4	3461.1	3486.5	3582.1	3679.0	3842.7	4020.3	4187.4	4201.3	4261.2	4111.3
12.5°	3242.0	3260.5	3291.6	3365.4	3481.8	3636.3	3838.1	4062.9	4091.7	4239.3	4091.7
15°	3097.9	3107.1	3138.3	3210.9	3323.9	3466.9	3670.9	3932.6	3958.0	4210.5	4088.3
17.5°	3029.9	3040.3	3062.2	3119.8	3213.2	3345.8	3545.3	3827.7	3860.0	4192.0	4101.0
20°	3048.3	3057.6	3058.7	3088.7	3152.1	3263.9	3453.0	3729.7	3771.2	4180.5	4121.7
22.5°	3153.3	3154.4	3140.6	3126.7	3148.6	3229.3	3396.5	3667.5	3710.1	4178.2	4145.9
25°	3310.1	3313.5	3290.5	3242.0	3198.2	3239.7	3383.8	3627.1	3665.2	4172.4	4160.9
27.5°	3526.8	3525.7	3518.7	3438.0	3313.5	3285.8	3394.2	3605.2	3637.5	4156.3	4166.7
30°	3830.0	3820.8	3805.8	3714.7	3524.5	3397.7	3438.0	3591.4	3621.3	4133.2	4151.7
32.5°	4128.6	4163.2	4160.9	4074.4	3836.9	3597.1	3529.1	3609.8	3631.7	4118.3	4129.8
35°	4476.8	4475.7	4564.4	4532.2	4254.3	3851.9	3684.8	3670.9	3688.2	4128.6	4119.4
37.5°	4799.6	4829.6	4968.0	5001.4	4747.8	4211.6	3905.0	3802.4	3808.1	4199.0	4144.8
40°	5202.0	5259.7	5466.0	5577.9	5354.2	4745.4	4230.1	4043.3	4044.5	4371.9	4240.5
42.5°	5720.8	5811.9	6004.4	6191.2	6071.3	5377.3	4717.8	4424.9	4422.6	4676.3	4459.5
45°	6351.5	6414.9	6633.9	6930.2	6854.2	6259.2	5428.0	5016.4	4986.4	5175.5	4848.1
47.5°	6895.7	6982.1	7204.6	7542.4	7888.3	7336.1	6276.5	5829.2	5809.6	5969.9	5514.4
50°	7133.2	7209.3	7443.3	7917.1	8755.3	8749.6	7540.1	7015.6	6982.1	7068.6	6545.2
52.5°	6872.6	6944.1	7180.4	7770.7	9163.5	10472.0	9371.0	8504.0	8463.6	8353.0	7776.5
55°	5980.2	6039.0	6388.4	7066.3	9006.7	11620.4	11893.6	10342.9	10186.1	9756.1	9170.4
57.5°	4761.6	4731.6	4948.4	5735.8	8086.6	12005.4	14483.1	12633.8	12353.6	10968.9	10349.8
60°	3299.7	3391.9	3479.5	3998.4	6080.5	11337.9	16093.7	15513.8	15144.8	12162.2	11479.7
62.5°	2425.8	2486.9	2544.5	2784.3	3823.1	9052.8	16378.5	18472.2	18144.8	13429.3	12557.7
65°	1918.5	1923.1	1946.1	2182.5	2519.1	5886.8	15010.0	20140.5	20056.3	14649.1	12994.6
66°	1747.8	1749.0	1784.7	2038.4	2260.9	4793.9	13913.5	20267.3	20313.4	14941.9	12866.7
67.5°	1527.6	1523.0	1574.9	1832.0	2059.1	3456.5	11951.2	19753.1	20026.3	15166.8	12406.6
70°	1184.1	1178.3	1241.7	1536.9	1896.6	2305.9	7943.7	16960.7	17401.1	14706.7	10977.0
72.5°	788.6	793.2	901.6	1212.9	1810.1	2030.3	4778.9	12902.4	13525.0	12144.9	8635.4
75°	460.0	468.1	591.5	901.6	1571.4	1935.8	2704.8	9200.4	9598.1	8386.4	5379.6
77.5°	241.0	244.4	330.9	594.9	1204.8	1797.4	1802.0	5877.6	6064.4	4075.6	2129.5
80°	128.0	124.5	177.6	358.6	829.0	1578.4	1461.9	3111.7	3235.1	1210.6	538.4
82.5°	48.4	53.0	94.5	235.2	490.0	1133.3	1259.0	1375.4	1332.8	266.3	226.0
85°	9.2	11.5	40.4	139.5	246.7	473.9	928.1	674.5	624.9	100.3	130.3
87.5°	1.2	2.3	11.5	33.4	35.7	160.3	274.4	186.8	161.4	36.9	54.2
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°	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9
2.5°	4050.2	4019.1	3915.3	3812.7	3707.8	3613.3	3548.7	3443.8	3417.3	3379.2	3357.3
5°	4042.2	3969.5	3770.1	3552.2	3349.3	3130.2	2963.0	2801.6	2715.1	2671.3	2655.2
7.5°	4019.1	3903.8	3592.5	3251.3	2926.1	2598.7	2313.9	2097.2	1957.7	1862.0	1797.4
10°	3973.0	3813.9	3386.1	2916.9	2425.8	1993.4	1632.5	1358.1	1146.0	1079.1	1081.4
12.5°	3925.7	3713.6	3155.6	2545.7	1936.9	1391.6	1008.8	792.1	690.6	657.2	650.3
15°	3881.9	3617.9	2929.6	2185.9	1442.3	901.6	650.3	574.2	546.5	540.7	539.6
17.5°	3858.8	3529.1	2688.6	1774.4	1006.5	612.2	521.1	500.4	492.3	486.5	484.2
20°	3839.2	3451.9	2458.0	1389.3	688.3	501.5	466.9	447.3	433.5	427.7	424.3
22.5°	3825.4	3372.3	2219.4	1075.7	526.9	445.0	413.9	388.5	368.9	362.0	357.4
25°	3804.7	3284.7	1978.4	786.3	443.9	395.5	359.7	329.7	304.4	291.7	289.4
27.5°	3774.7	3185.5	1714.4	582.2	396.6	351.6	307.8	270.9	245.6	231.7	232.9
30°	3726.3	3081.8	1450.4	462.3	358.6	306.7	259.4	223.7	199.5	189.1	187.9
32.5°	3668.6	2956.1	1208.3	396.6	324.0	266.3	216.8	185.6	167.2	159.1	158.0
35°	3614.4	2829.3	961.5	356.3	288.2	229.4	182.2	155.6	141.8	134.9	136.0
37.5°	3584.4	2716.3	749.4	324.0	259.4	197.2	156.8	133.7	121.1	115.3	114.1
40°	3604.0	2624.1	596.1	295.1	227.1	169.5	134.9	115.3	102.6	94.5	94.5
42.5°	3696.3	2583.7	480.8	267.5	197.2	146.4	117.6	99.2	85.3	77.2	78.4
45°	3977.6	2626.4	402.4	242.1	169.5	126.8	101.5	81.9	69.2	63.4	62.3
47.5°	4444.5	2786.6	348.2	215.6	145.3	108.4	85.3	68.0	55.3	50.7	49.6
50°	5260.8	3117.5	307.8	189.1	123.4	92.2	70.3	54.2	43.8	39.2	39.2
52.5°	6383.8	3839.2	279.0	159.1	103.8	78.4	57.6	43.8	34.6	31.1	30.0
55°	7557.4	4600.2	264.0	133.7	86.5	64.6	46.1	34.6	26.5	23.1	21.9
57.5°	8686.2	5197.4	246.7	108.4	69.2	49.6	35.7	26.5	18.4	16.1	15.0
60°	9768.8	5680.5	209.8	86.5	54.2	35.7	26.5	18.4	12.7	10.4	10.4
62.5°	10737.2	5961.8	164.9	69.2	41.5	25.4	17.3	13.8	9.2	6.9	6.9
65°	10850.2	5596.3	124.5	53.0	30.0	16.1	10.4	10.4	6.9	4.6	4.6
66°	10623.1	5286.2	109.5	48.4	26.5	13.8	9.2	8.1	5.8	3.5	3.5
67.5°	10115.8	4757.0	94.5	41.5	21.9	10.4	6.9	6.9	4.6	2.3	2.3
70°	8740.3	3885.4	74.9	31.1	16.1	8.1	4.6	4.6	3.5	2.3	2.3
72.5°	6661.6	2900.8	61.1	23.1	11.5	5.8	3.5	3.5	3.5	2.3	2.3
75°	4018.0	1562.2	47.3	17.3	10.4	4.6	2.3	3.5	4.6	3.5	2.3
77.5°	1480.4	531.5	36.9	13.8	8.1	4.6	2.3	2.3	4.6	3.5	3.5
80°	363.2	138.4	26.5	11.5	8.1	4.6	2.3	2.3	4.6	4.6	4.6
82.5°	168.3	58.8	18.4	10.4	8.1	4.6	2.3	2.3	3.5	4.6	4.6
85°	96.8	27.7	15.0	11.5	8.1	4.6	2.3	2.3	3.5	4.6	4.6
87.5°	39.2	13.8	13.8	11.5	9.2	5.8	2.3	2.3	2.3	3.5	3.5
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)