

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: P455793

Luminaire Tested: **GALN-SA7A-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455793
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-SA7A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 23741 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

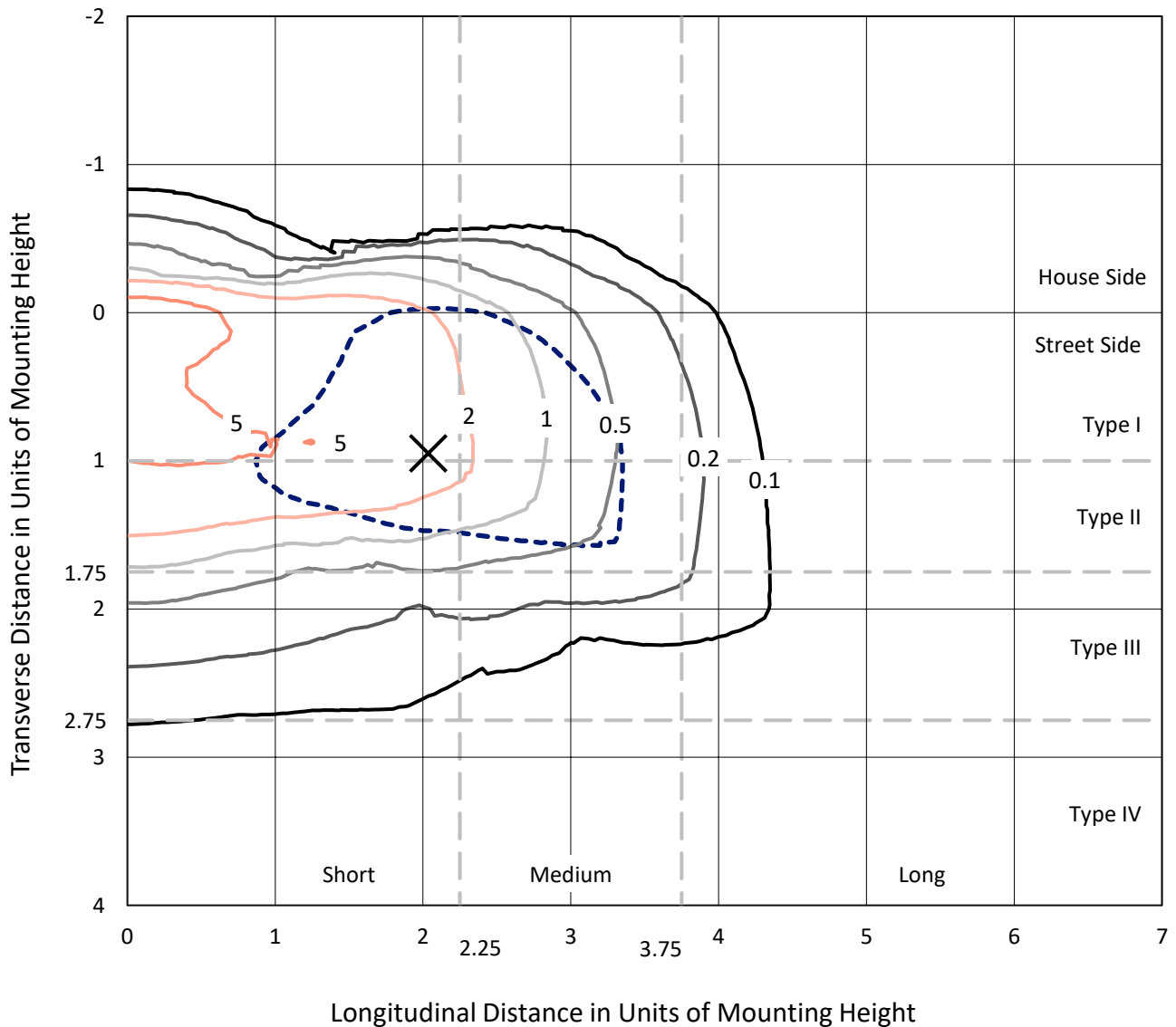
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

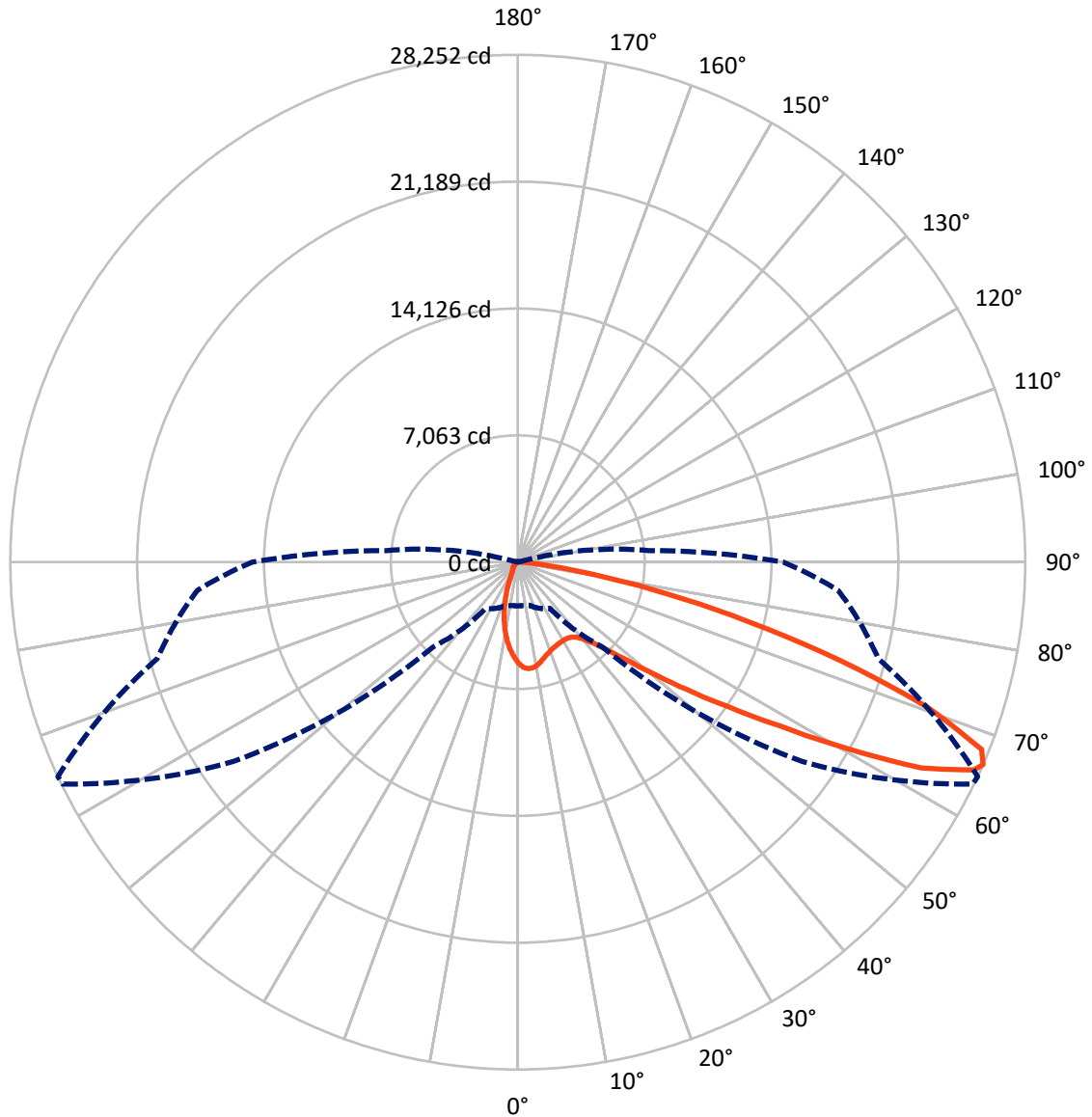
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	2455.1	0.0	2455.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21285.8	0.0	21285.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	23741.0	0.0	23741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	1.9
10°-20°	1003.2	4.2
20°-30°	1437.1	6.1
30°-40°	2099.0	8.8
40°-50°	3519.7	14.8
50°-60°	5873.9	24.7
60°-70°	6234.9	26.3
70°-80°	2823.8	11.9
80°-90°	288.9	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°	23741.0	100.0
0°-180°	23741.0	100.0

Coefficient of Utilization



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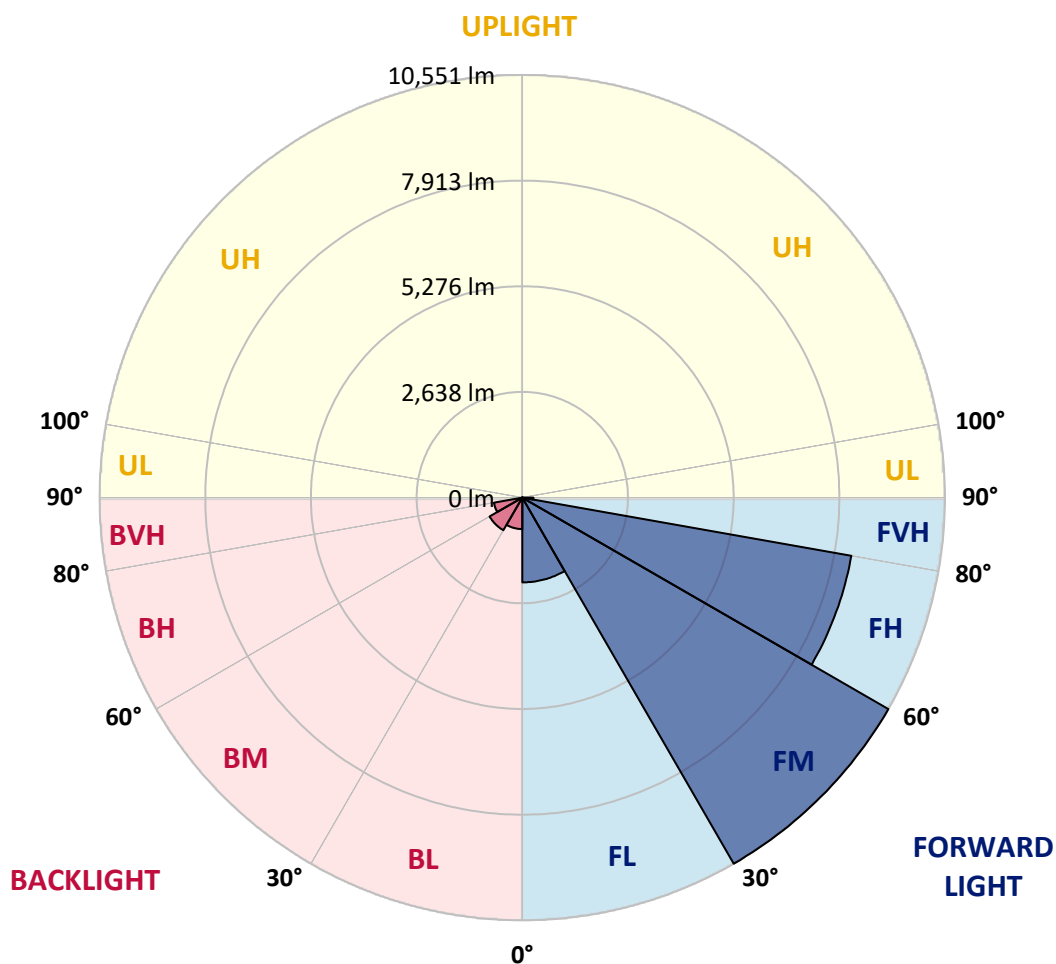
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.4	8.9			
FM (30°-60°)	10551.0	44.4			
FH (60°-80°)	8339.7	35.1			G4/12000
FVH (80°-90°)	279.7	1.2			G3/500
BL (0°-30°)	785.4	3.3	B2/1000		
BM (30°-60°)	941.6	4.0	B1/1000		
BH (60°-80°)	719.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9
2.5°	5932.9	5939.3	5947.4	5958.6	5966.6	5942.5	5908.9	5870.4	5862.4	5780.6	5681.2
5°	5615.4	5625.1	5695.6	5734.1	5820.7	5899.3	5949.0	5955.4	5952.2	5875.2	5716.5
7.5°	5163.2	5190.5	5259.5	5326.8	5488.8	5637.9	5814.3	5937.7	5945.8	5924.9	5727.7
10°	4796.0	4813.7	4849.0	4982.1	5116.7	5344.4	5591.4	5823.9	5843.1	5926.5	5718.1
12.5°	4509.0	4534.7	4578.0	4680.6	4842.6	5057.4	5338.0	5650.7	5690.8	5896.0	5690.8
15°	4308.6	4321.4	4364.7	4465.7	4622.9	4821.7	5105.5	5469.5	5504.8	5856.0	5686.0
17.5°	4214.0	4228.4	4258.9	4339.1	4468.9	4653.3	4930.7	5323.6	5368.5	5830.3	5703.6
20°	4239.6	4252.5	4254.1	4295.8	4384.0	4539.5	4802.5	5187.3	5245.0	5814.3	5732.5
22.5°	4385.6	4387.2	4367.9	4348.7	4379.1	4491.4	4723.9	5100.7	5160.0	5811.1	5766.2
25°	4603.6	4608.4	4576.4	4509.0	4448.1	4505.8	4706.3	5044.6	5097.5	5803.0	5787.0
27.5°	4905.1	4903.5	4893.9	4781.6	4608.4	4570.0	4720.7	5014.1	5059.0	5780.6	5795.0
30°	5326.8	5314.0	5293.1	5166.5	4901.9	4725.5	4781.6	4994.9	5036.6	5748.5	5774.2
32.5°	5742.1	5790.2	5787.0	5666.7	5336.4	5002.9	4908.3	5020.5	5051.0	5727.7	5743.7
35°	6226.4	6224.8	6348.2	6303.3	5916.9	5357.3	5124.8	5105.5	5129.6	5742.1	5729.3
37.5°	6675.3	6717.0	6909.5	6956.0	6603.2	5857.6	5431.0	5288.3	5296.3	5839.9	5764.6
40°	7235.0	7315.1	7602.2	7757.7	7446.6	6600.0	5883.2	5623.5	5625.1	6080.4	5897.7
42.5°	7956.5	8083.2	8351.0	8610.8	8444.0	7478.7	6561.5	6154.2	6151.0	6503.8	6202.3
45°	8833.6	8921.8	9226.5	9638.6	9532.8	8705.4	7549.2	6976.8	6935.1	7198.1	6742.7
47.5°	9590.5	9710.8	10020.2	10490.1	10971.1	10203.0	8729.4	8107.3	8080.0	8302.9	7669.5
50°	9920.8	10026.6	10352.2	11011.2	12176.9	12168.9	10486.8	9757.3	9710.8	9831.0	9103.0
52.5°	9558.4	9657.8	9986.6	10807.5	12744.6	14564.5	13033.2	11827.4	11771.2	11617.3	10815.6
55°	8317.3	8399.1	8885.0	9827.8	12526.5	16161.6	16541.6	14384.9	14166.9	13568.8	12754.2
57.5°	6622.4	6580.7	6882.2	7977.4	11246.9	16697.2	20143.1	17571.1	17181.4	15255.6	14394.6
60°	4589.2	4717.5	4839.3	5560.9	8456.8	15768.8	22383.2	21576.6	21063.5	16915.3	15966.0
62.5°	3373.8	3458.7	3538.9	3872.4	5317.2	12590.6	22779.2	25691.2	25235.8	18677.5	17465.3
65°	2668.2	2674.6	2706.7	3035.4	3503.6	8187.4	20875.9	28011.4	27894.4	20374.0	18073.0
66°	2430.9	2432.5	2482.2	2835.0	3144.5	6667.3	19351.0	28187.8	28252.0	20781.3	17895.0
67.5°	2124.6	2118.2	2190.4	2548.0	2863.8	4807.3	16621.8	27472.7	27852.7	21094.0	17255.2
70°	1646.8	1638.8	1727.0	2137.5	2637.7	3207.0	11048.1	23589.0	24201.5	20454.2	15266.9
72.5°	1096.8	1103.2	1253.9	1686.9	2517.5	2823.8	6646.5	17944.7	18810.6	16891.2	12010.2
75°	639.8	651.0	822.6	1253.9	2185.6	2692.3	3761.8	12795.9	13349.1	11663.8	7481.9
77.5°	335.1	339.9	460.2	827.4	1675.7	2499.8	2506.3	8174.6	8434.4	5668.4	2961.7
80°	178.0	173.2	246.9	498.7	1152.9	2195.2	2033.2	4327.8	4499.4	1683.7	748.8
82.5°	67.3	73.8	131.5	327.1	681.5	1576.2	1751.0	1913.0	1853.6	370.4	314.3
85°	12.8	16.0	56.1	194.0	343.1	659.0	1290.8	938.0	869.1	139.5	181.2
87.5°	1.6	3.2	16.0	46.5	49.7	222.9	381.6	259.8	224.5	51.3	75.4
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°	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9	5629.9
2.5°	5633.1	5589.8	5445.5	5302.8	5156.8	5025.3	4935.6	4789.6	4752.8	4699.8	4669.4
5°	5621.8	5520.8	5243.4	4940.4	4658.1	4353.5	4121.0	3896.5	3776.2	3715.3	3692.8
7.5°	5589.8	5429.4	4996.5	4521.9	4069.7	3614.3	3218.2	2916.8	2722.7	2589.6	2499.8
10°	5525.6	5304.4	4709.5	4056.8	3373.8	2772.4	2270.5	1888.9	1593.9	1500.9	1504.1
12.5°	5459.9	5164.9	4388.8	3540.5	2693.9	1935.4	1403.1	1101.6	960.5	914.0	904.4
15°	5399.0	5031.8	4074.5	3040.2	2006.0	1253.9	904.4	798.5	760.1	752.0	750.4
17.5°	5366.9	4908.3	3739.3	2467.8	1399.9	851.5	724.8	695.9	684.7	676.7	673.5
20°	5339.6	4800.9	3418.6	1932.2	957.3	697.5	649.4	622.2	602.9	594.9	590.1
22.5°	5320.4	4690.2	3086.7	1496.1	732.8	618.9	575.7	540.4	513.1	503.5	497.1
25°	5291.5	4568.4	2751.6	1093.6	617.3	550.0	500.3	458.6	423.3	405.7	402.5
27.5°	5249.8	4430.5	2384.4	809.8	551.6	489.1	428.1	376.8	341.5	322.3	323.9
30°	5182.5	4286.1	2017.2	643.0	498.7	426.5	360.8	311.1	277.4	263.0	261.4
32.5°	5102.3	4111.4	1680.5	551.6	450.6	370.4	301.5	258.2	232.5	221.3	219.7
35°	5027.0	3935.0	1337.3	495.5	400.9	319.1	253.4	216.5	197.2	187.6	189.2
37.5°	4985.3	3777.8	1042.3	450.6	360.8	274.2	218.1	186.0	168.4	160.3	158.7
40°	5012.5	3649.6	829.0	410.5	315.9	235.7	187.6	160.3	142.7	131.5	131.5
42.5°	5140.8	3593.4	668.7	372.0	274.2	203.6	163.6	137.9	118.7	107.4	109.0
45°	5532.1	3652.8	559.6	336.7	235.7	176.4	141.1	113.8	96.2	88.2	86.6
47.5°	6181.5	3875.6	484.3	299.9	202.0	150.7	118.7	94.6	77.0	70.6	69.0
50°	7316.7	4335.8	428.1	263.0	171.6	128.3	97.8	75.4	60.9	54.5	54.5
52.5°	8878.5	5339.6	388.0	221.3	144.3	109.0	80.2	60.9	48.1	43.3	41.7
55°	10510.9	6397.9	367.2	186.0	120.3	89.8	64.1	48.1	36.9	32.1	30.5
57.5°	12080.7	7228.5	343.1	150.7	96.2	69.0	49.7	36.9	25.7	22.4	20.8
60°	13586.4	7900.4	291.8	120.3	75.4	49.7	36.9	25.7	17.6	14.4	14.4
62.5°	14933.3	8291.7	229.3	96.2	57.7	35.3	24.1	19.2	12.8	9.6	9.6
65°	15090.5	7783.4	173.2	73.8	41.7	22.4	14.4	14.4	9.6	6.4	6.4
66°	14774.6	7352.0	152.3	67.3	36.9	19.2	12.8	11.2	8.0	4.8	4.8
67.5°	14069.1	6616.0	131.5	57.7	30.5	14.4	9.6	9.6	6.4	3.2	3.2
70°	12156.1	5403.8	104.2	43.3	22.4	11.2	6.4	6.4	4.8	3.2	3.2
72.5°	9265.0	4034.4	85.0	32.1	16.0	8.0	4.8	4.8	4.8	3.2	3.2
75°	5588.2	2172.7	65.7	24.1	14.4	6.4	3.2	4.8	6.4	4.8	3.2
77.5°	2058.9	739.2	51.3	19.2	11.2	6.4	3.2	3.2	6.4	4.8	4.8
80°	505.1	192.4	36.9	16.0	11.2	6.4	3.2	3.2	6.4	6.4	6.4
82.5°	234.1	81.8	25.7	14.4	11.2	6.4	3.2	3.2	4.8	6.4	6.4
85°	134.7	38.5	20.8	16.0	11.2	6.4	3.2	3.2	4.8	6.4	6.4
87.5°	54.5	19.2	19.2	16.0	12.8	8.0	3.2	3.2	3.2	4.8	4.8
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)