

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638526

Luminaire Tested: GWS-SA4F-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19867.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

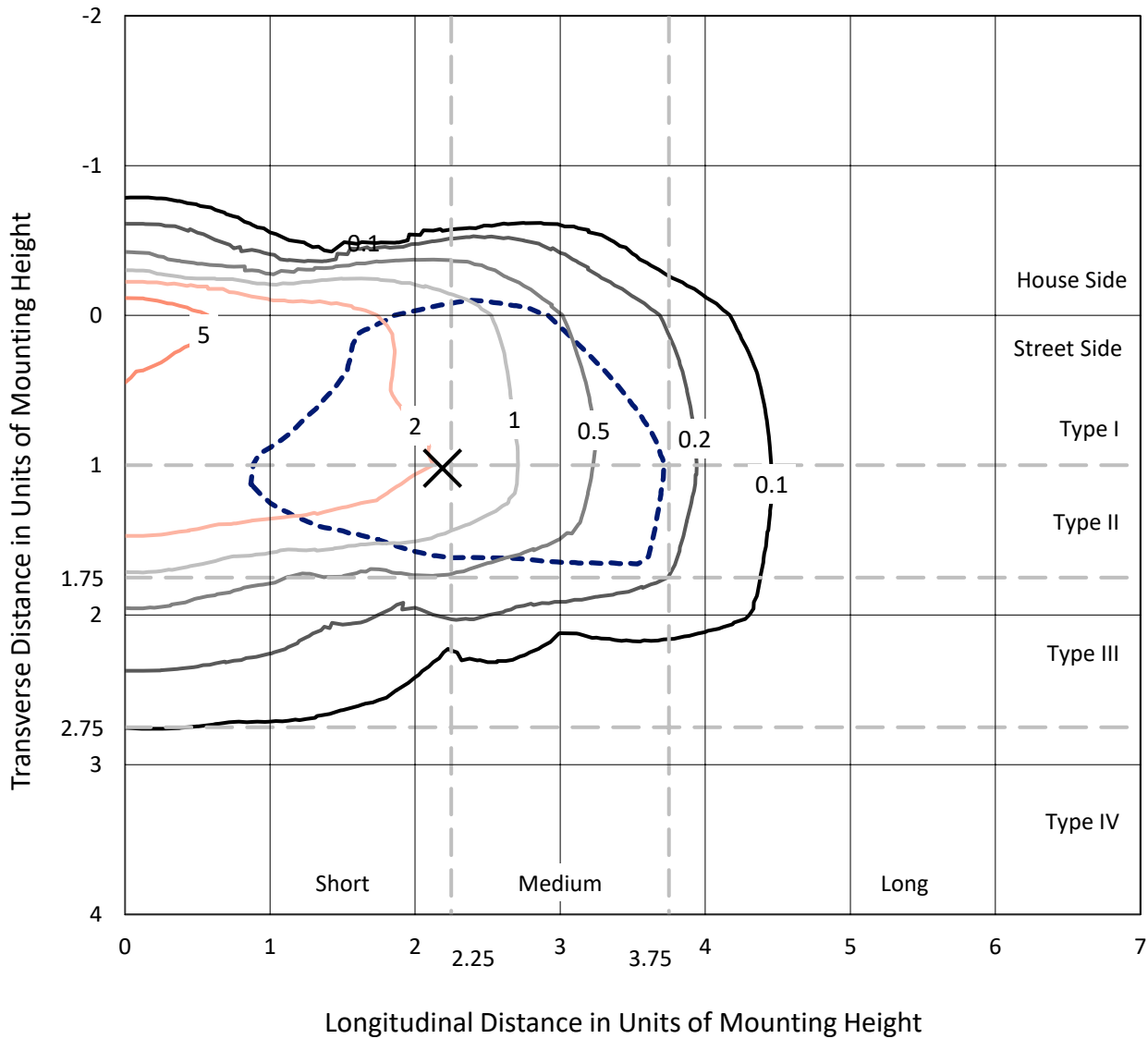
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

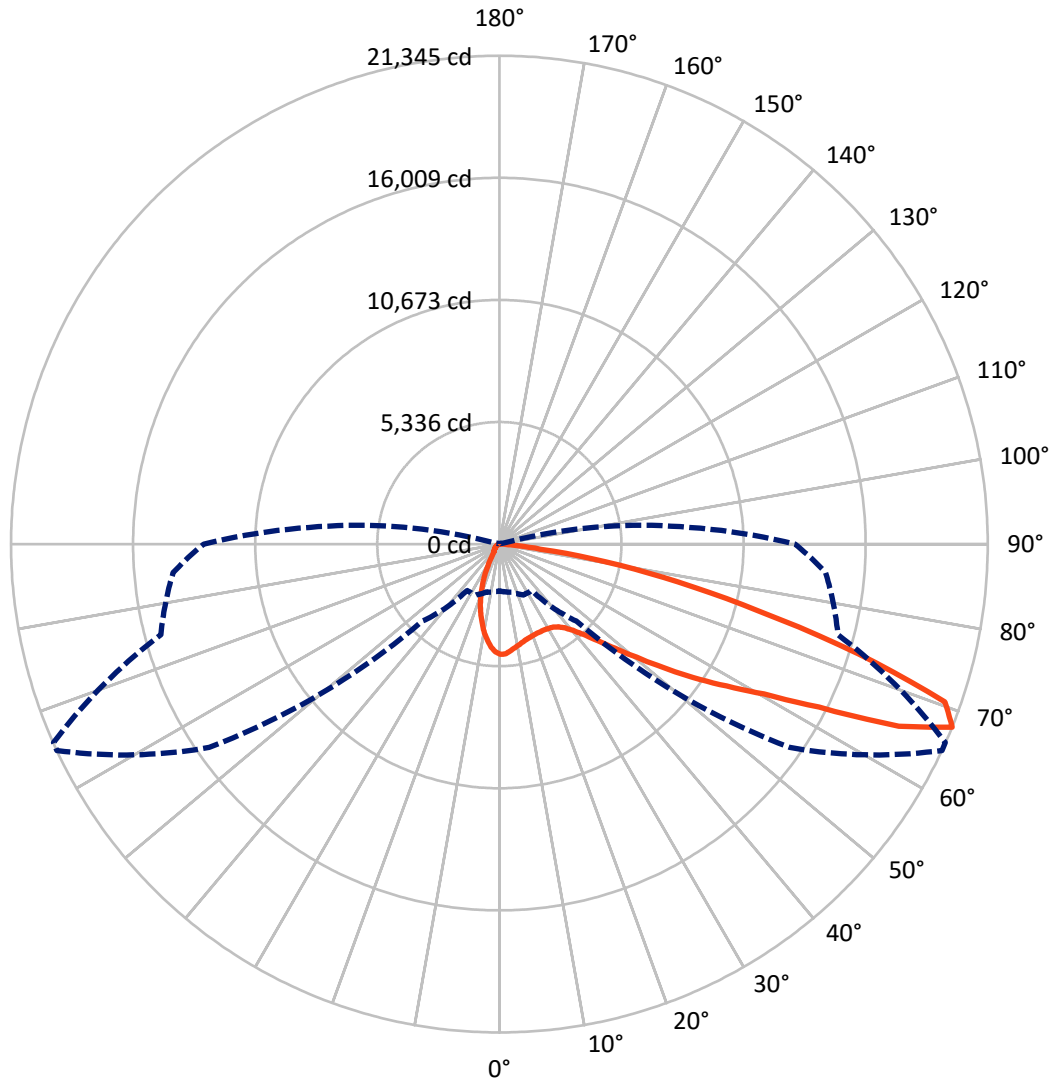
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2480.9	0.0	2480.9
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	17386.5	0.0	17386.5
	% Fixture	87.5	0.0	87.5
Total	Lumens	19867.3	0.0	19867.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	2.0
10°-20°	899.6	4.5
20°-30°	1285.5	6.5
30°-40°	1870.2	9.4
40°-50°	2929.1	14.7
50°-60°	4569.5	23.0
60°-70°	5019.4	25.3
70°-80°	2671.3	13.4
80°-90°	222.4	1.1
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°	19867.3	100.0
0°-180°	19867.3	100.0

Coefficient of Utilization



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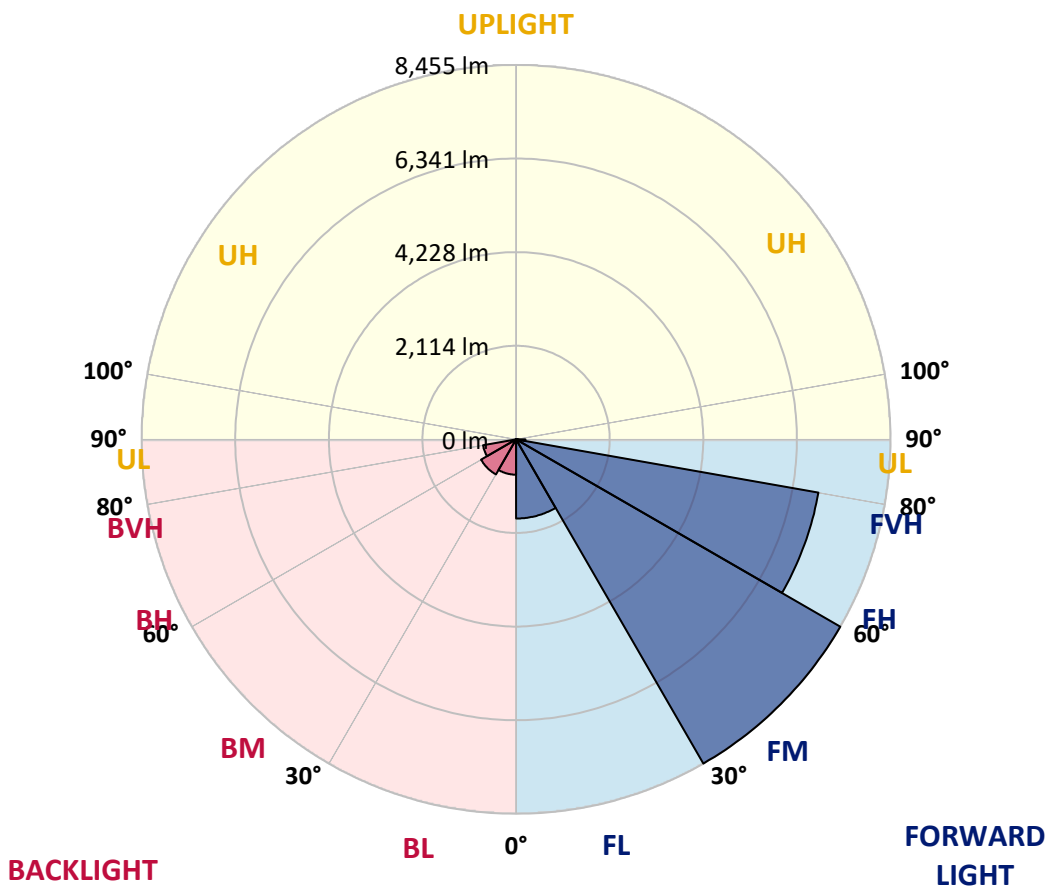
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.9	9.0			
FM (30°-60°)	8455.1	42.6			
FH (60°-80°)	6932.9	34.9			G3/7500
FVH (80°-90°)	210.5	1.1			G2/225
BL (0°-30°)	797.4	4.0	B2/1000		
BM (30°-60°)	913.8	4.6	B1/1000		
BH (60°-80°)	757.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.9	0.1			G1/100
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°	65°	66°	75°	85°
0°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
2.5°	4651.4	4665.7	4646.0	4694.5	4703.5	4757.4	4787.9	4809.5	4807.7	4834.6	4834.6
5°	4378.3	4392.7	4381.9	4434.0	4475.3	4559.7	4629.8	4710.7	4714.2	4796.9	4827.4
7.5°	4146.5	4148.3	4148.3	4213.0	4266.9	4371.1	4475.3	4599.3	4613.6	4741.2	4822.0
10°	3956.1	3961.5	3963.3	4036.9	4096.2	4222.0	4354.9	4504.0	4520.2	4692.7	4818.4
12.5°	3824.9	3826.7	3833.9	3911.2	3975.8	4107.0	4241.7	4412.4	4434.0	4637.0	4802.3
15°	3762.1	3758.5	3762.1	3826.7	3891.4	4017.2	4155.5	4338.8	4362.1	4590.3	4804.1
17.5°	3758.5	3753.1	3749.5	3798.0	3839.3	3950.7	4090.8	4290.2	4315.4	4568.7	4823.8
20°	3810.6	3807.0	3789.0	3810.6	3819.5	3911.2	4049.5	4252.5	4277.7	4565.1	4867.0
22.5°	3947.1	3938.1	3911.2	3891.4	3842.9	3896.8	4020.8	4225.6	4254.3	4574.1	4922.6
25°	4150.1	4146.5	4112.4	4063.9	3939.9	3918.4	4022.6	4225.6	4252.5	4584.9	4981.9
27.5°	4455.5	4434.0	4390.9	4306.4	4128.6	4002.8	4058.5	4236.4	4263.3	4599.3	5030.4
30°	4766.3	4764.5	4750.2	4663.9	4399.8	4164.5	4133.9	4265.1	4290.2	4611.8	5075.4
32.5°	5087.9	5093.3	5129.3	5062.8	4773.5	4405.2	4270.5	4324.4	4342.4	4637.0	5114.9
35°	5393.4	5404.1	5499.4	5522.7	5228.1	4769.9	4493.3	4443.0	4444.8	4692.7	5167.0
37.5°	5686.2	5722.1	5874.8	5988.0	5794.0	5211.9	4814.9	4644.2	4629.8	4804.1	5246.0
40°	6018.6	6086.8	6279.1	6471.3	6410.2	5795.8	5253.2	4953.2	4922.6	5008.9	5388.0
42.5°	6386.9	6460.5	6715.6	6985.1	7013.9	6501.8	5801.2	5404.1	5352.0	5353.8	5653.9
45°	6782.1	6880.9	7177.4	7565.4	7739.7	7288.8	6476.7	6013.2	5961.1	5883.8	6081.4
47.5°	7301.3	7387.6	7673.2	8120.6	8454.7	8133.1	7362.4	6796.5	6701.3	6588.1	6746.2
50°	7748.7	7824.1	8070.3	8630.8	9326.1	9221.9	8366.7	7775.6	7684.0	7491.8	7622.9
52.5°	7847.5	7906.8	8133.1	8763.8	9992.6	10596.3	9597.4	8959.6	8894.9	8539.2	8589.5
55°	7403.7	7493.6	7696.6	8397.2	10166.9	11940.1	11194.5	10294.4	10159.7	9592.0	9681.8
57.5°	6282.7	6442.6	6633.0	7543.9	9694.4	12655.2	13425.9	11708.4	11586.2	10605.3	10607.0
60°	4604.7	4734.0	4861.6	5695.2	8573.3	12606.7	15450.6	13296.5	13073.8	11433.5	11402.9
62.5°	3348.8	3415.3	3413.5	3710.0	5887.4	11776.6	16514.2	15689.6	15170.4	12319.2	12144.9
65°	2633.8	2632.0	2709.3	2806.3	3287.8	9090.7	16645.4	19184.0	18623.4	13506.7	13143.8
67.5°	2049.9	2089.4	2166.7	2452.3	2470.3	4757.4	15492.0	21345.2	21334.5	15319.5	14313.4
70°	1581.0	1634.9	1744.5	2161.3	2281.7	2662.5	11591.6	20660.7	20835.0	16129.8	13485.2
72.5°	1015.1	1011.5	1173.2	1746.3	2191.8	2218.8	6410.2	16411.8	16609.4	14609.8	10903.5
75°	567.7	571.3	662.9	1069.0	2042.7	2087.6	3174.6	11703.0	11859.3	11390.4	8377.5
77.5°	222.8	230.0	310.8	562.3	1347.4	1864.9	1886.4	7980.4	8003.8	7058.8	5138.2
80°	89.8	95.2	158.1	348.5	821.0	1255.8	1347.4	4701.7	4606.4	2732.6	1494.8
82.5°	26.9	28.7	62.9	197.6	429.4	892.9	909.1	1803.8	1703.2	587.5	380.9
85°	1.8	1.8	14.4	61.1	152.7	224.6	605.4	587.5	521.0	147.3	168.9
87.5°	0.0	0.0	1.8	1.8	3.6	7.2	64.7	107.8	109.6	26.9	75.5
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°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
2.5°	4834.6	4769.9	4764.5	4714.2	4663.9	4601.1	4527.4	4473.5	4435.8	4369.3	4356.7
5°	4827.4	4741.2	4660.3	4516.6	4356.7	4184.3	4033.3	3893.2	3805.2	3745.9	3720.7
7.5°	4813.1	4703.5	4516.6	4245.3	3977.6	3675.8	3440.5	3224.9	3077.6	2991.3	2953.6
10°	4802.3	4655.0	4351.3	3939.9	3524.9	3108.1	2750.6	2430.8	2252.9	2112.8	2089.4
12.5°	4780.7	4584.9	4139.3	3582.4	3047.0	2493.7	2037.3	1645.7	1374.4	1252.2	1209.1
15°	4759.2	4511.2	3927.3	3205.1	2526.0	1843.3	1289.9	912.7	725.8	668.3	664.7
17.5°	4755.6	4444.8	3697.4	2847.6	1979.8	1207.3	734.8	591.1	551.6	537.2	537.2
20°	4766.3	4389.1	3471.0	2436.2	1442.7	734.8	548.0	512.0	488.7	476.1	476.1
22.5°	4777.1	4331.6	3253.6	2021.2	957.6	537.2	483.3	452.7	425.8	411.4	404.2
25°	4784.3	4268.7	3012.9	1604.4	625.2	467.1	424.0	384.5	352.1	334.2	334.2
27.5°	4782.5	4193.2	2770.3	1196.5	485.1	415.0	362.9	321.6	289.3	269.5	271.3
30°	4768.1	4110.6	2518.8	835.4	424.0	362.9	310.8	267.7	235.4	219.2	217.4
32.5°	4757.4	4022.6	2227.8	587.5	380.9	318.0	264.1	222.8	195.8	183.3	181.5
35°	4744.8	3936.3	1951.1	447.4	343.1	274.9	222.8	188.6	167.1	156.3	156.3
37.5°	4748.4	3846.5	1651.1	384.5	305.4	238.9	190.4	161.7	143.7	132.9	131.2
40°	4804.1	3792.6	1356.4	348.5	271.3	206.6	165.3	140.1	122.2	111.4	109.6
42.5°	4942.4	3794.4	1074.4	321.6	240.7	176.1	143.7	120.4	104.2	91.6	89.8
45°	5219.1	3869.8	824.6	292.8	208.4	152.7	124.0	102.4	86.2	75.5	73.7
47.5°	5671.8	4094.4	625.2	267.7	181.5	132.9	106.0	86.2	71.9	62.9	61.1
50°	6392.3	4500.5	492.3	237.1	152.7	115.0	89.8	71.9	59.3	50.3	48.5
52.5°	7258.2	5109.5	422.2	210.2	131.2	100.6	77.3	59.3	48.5	41.3	39.5
55°	8253.5	5837.1	389.9	183.3	111.4	86.2	62.9	48.5	39.5	34.1	30.5
57.5°	9166.2	6492.9	388.1	156.3	95.2	73.7	52.1	41.3	34.1	26.9	25.2
60°	10055.5	7040.8	364.7	129.4	82.6	61.1	44.9	34.1	28.7	23.4	21.6
62.5°	10862.2	7486.4	305.4	104.2	70.1	50.3	37.7	30.5	25.2	19.8	19.8
65°	11875.4	8054.1	233.6	84.4	57.5	41.3	32.3	26.9	23.4	18.0	18.0
67.5°	12922.8	8354.1	167.1	70.1	46.7	35.9	28.7	25.2	19.8	16.2	16.2
70°	11704.8	7058.8	120.4	57.5	39.5	30.5	25.2	23.4	19.8	16.2	14.4
72.5°	9141.0	5089.7	89.8	44.9	34.1	28.7	23.4	21.6	18.0	14.4	14.4
75°	6778.5	2968.0	68.3	35.9	26.9	23.4	23.4	21.6	18.0	14.4	12.6
77.5°	3684.8	1034.8	52.1	28.7	21.6	18.0	19.8	19.8	16.2	12.6	10.8
80°	975.5	283.9	35.9	21.6	18.0	14.4	14.4	18.0	14.4	10.8	10.8
82.5°	283.9	82.6	25.2	18.0	14.4	12.6	12.6	12.6	10.8	9.0	7.2
85°	138.3	30.5	18.0	14.4	12.6	10.8	9.0	9.0	7.2	5.4	5.4
87.5°	61.1	12.6	14.4	12.6	12.6	9.0	7.2	5.4	5.4	3.6	1.8
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)