

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: P639681

Luminaire Tested: GWS-SA5C-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639681
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-SA5C-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18617.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

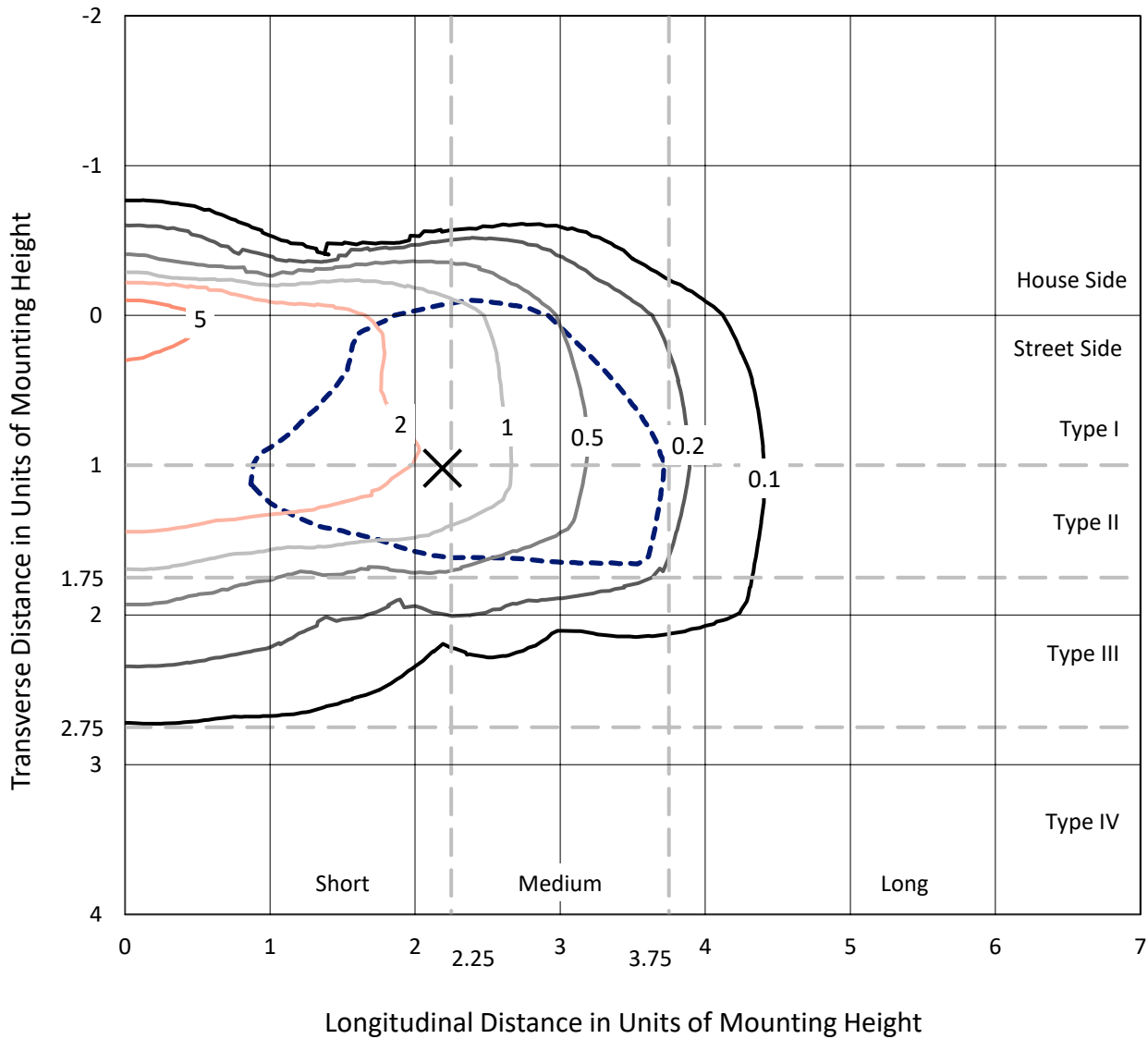
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

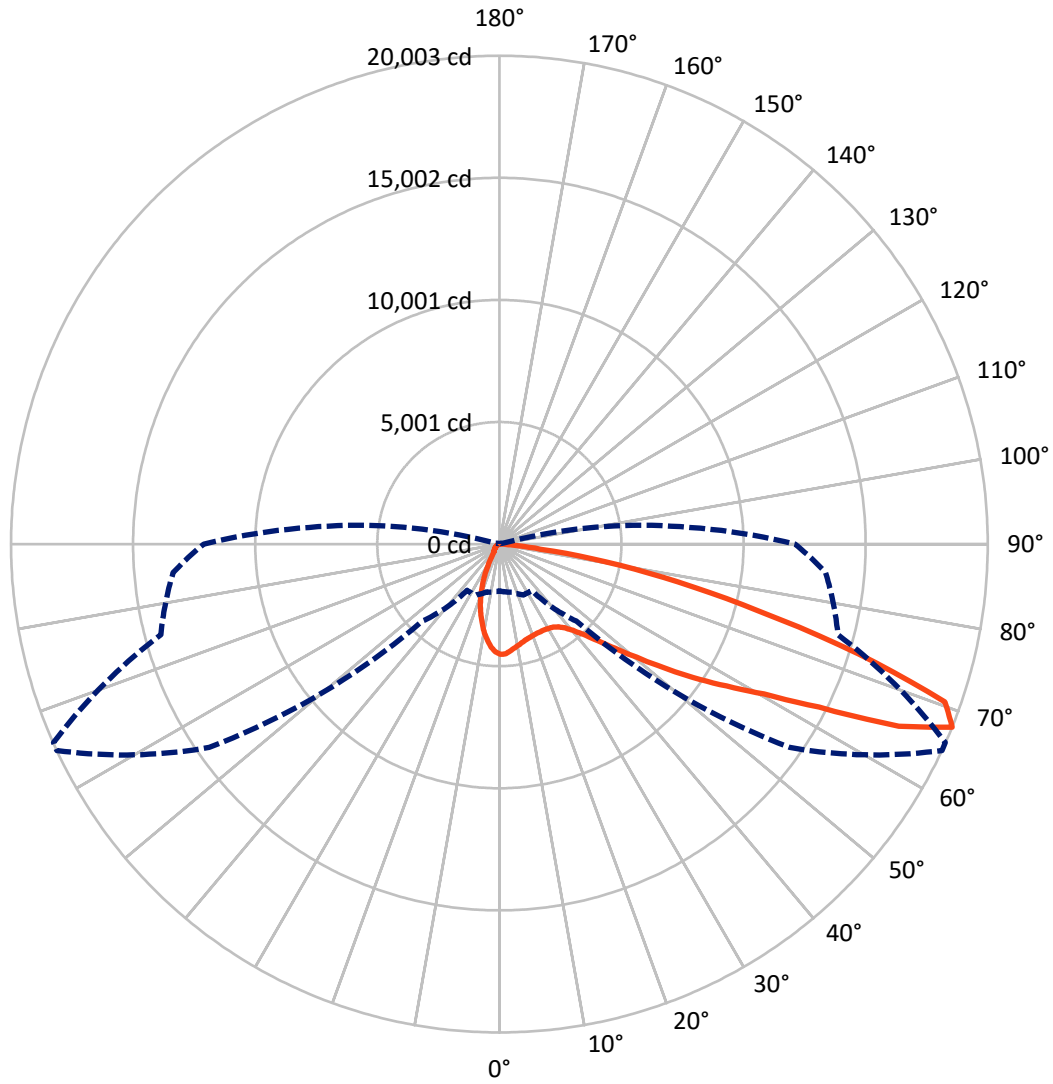
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2324.8	0.0	2324.8
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	16293.0	0.0	16293.0
	% Fixture	87.5	0.0	87.5
Total	Lumens	18617.8	0.0	18617.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	2.0
10°-20°	843.0	4.5
20°-30°	1204.7	6.5
30°-40°	1752.6	9.4
40°-50°	2744.9	14.7
50°-60°	4282.1	23.0
60°-70°	4703.7	25.3
70°-80°	2503.3	13.4
80°-90°	208.4	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°	18617.8	100.0
0°-180°	18617.8	100.0

Coefficient of Utilization



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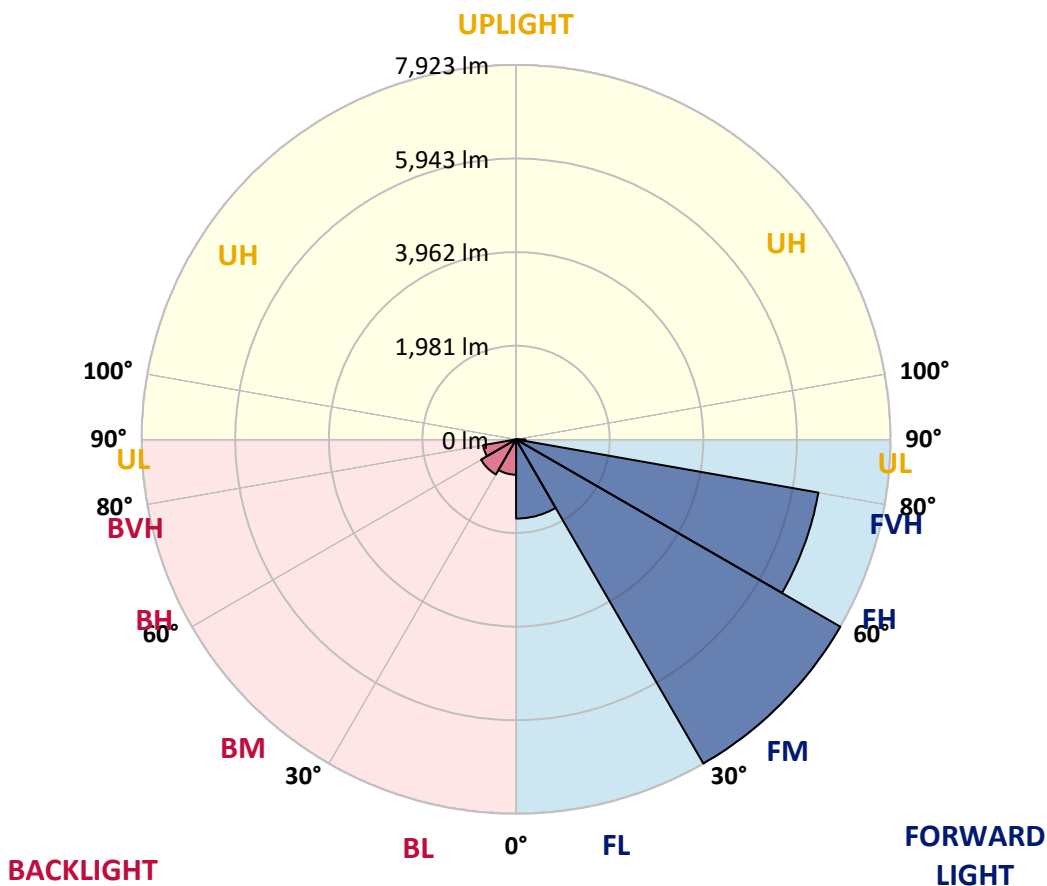
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.5	9.0			
FM (30°-60°)	7923.3	42.6			
FH (60°-80°)	6496.9	34.9			G3/7500
FVH (80°-90°)	197.3	1.1			G2/225
BL (0°-30°)	747.2	4.0	B2/1000		
BM (30°-60°)	856.3	4.6	B1/1000		
BH (60°-80°)	710.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.2	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°	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4
2.5°	4358.8	4372.3	4353.8	4399.2	4407.7	4458.2	4486.8	4507.0	4505.3	4530.6	4530.6
5°	4102.9	4116.4	4106.3	4155.1	4193.8	4273.0	4338.6	4414.4	4417.8	4495.2	4523.8
7.5°	3885.7	3887.4	3887.4	3948.0	3998.5	4096.2	4193.8	4310.0	4323.5	4443.0	4518.8
10°	3707.3	3712.3	3714.0	3783.0	3838.6	3956.4	4081.0	4220.8	4235.9	4397.6	4515.4
12.5°	3584.4	3586.1	3592.8	3665.2	3725.8	3848.7	3975.0	4134.9	4155.1	4345.4	4500.3
15°	3525.4	3522.1	3525.4	3586.1	3646.7	3764.5	3894.2	4065.9	4087.8	4301.6	4501.9
17.5°	3522.1	3517.0	3513.7	3559.1	3597.8	3702.2	3833.5	4020.4	4044.0	4281.4	4520.5
20°	3570.9	3567.5	3550.7	3570.9	3579.3	3665.2	3794.8	3985.1	4008.6	4278.0	4560.9
22.5°	3698.9	3690.4	3665.2	3646.7	3601.2	3651.7	3767.9	3959.8	3986.8	4286.4	4613.1
25°	3889.1	3885.7	3853.7	3808.3	3692.1	3671.9	3769.6	3959.8	3985.1	4296.5	4668.6
27.5°	4175.3	4155.1	4114.7	4035.6	3868.9	3751.1	3803.2	3969.9	3995.2	4310.0	4714.1
30°	4466.6	4464.9	4451.4	4370.6	4123.1	3902.6	3874.0	3996.9	4020.4	4321.8	4756.2
32.5°	4767.9	4773.0	4806.7	4744.4	4473.3	4128.2	4001.9	4052.4	4069.3	4345.4	4793.2
35°	5054.2	5064.3	5153.5	5175.4	4899.3	4469.9	4210.7	4163.5	4165.2	4397.6	4842.0
37.5°	5328.6	5362.3	5505.4	5611.4	5429.6	4884.1	4512.0	4352.1	4338.6	4501.9	4916.1
40°	5640.0	5704.0	5884.2	6064.3	6007.1	5431.3	4922.8	4641.7	4613.1	4693.9	5049.1
42.5°	5985.2	6054.2	6293.3	6545.8	6572.8	6092.9	5436.3	5064.3	5015.4	5017.1	5298.3
45°	6355.6	6448.2	6726.0	7089.6	7252.9	6830.3	6069.4	5635.0	5586.2	5513.8	5699.0
47.5°	6842.1	6922.9	7190.6	7609.9	7923.0	7621.6	6899.4	6369.0	6279.8	6173.7	6321.9
50°	7261.3	7332.1	7562.7	8088.0	8739.5	8641.9	7840.5	7286.6	7200.7	7020.6	7143.5
52.5°	7353.9	7409.5	7621.6	8212.6	9364.2	9929.8	8993.8	8396.1	8335.5	8002.1	8049.3
55°	6938.1	7022.3	7212.5	7869.1	9527.5	11189.2	10490.5	9647.0	9520.7	8988.7	9072.9
57.5°	5887.5	6037.4	6215.8	7069.4	9084.7	11859.2	12581.5	10972.0	10857.5	9938.3	9939.9
60°	4315.1	4436.3	4555.8	5337.0	8034.1	11813.8	14478.9	12460.3	12251.5	10714.4	10685.8
62.5°	3138.2	3200.5	3198.8	3476.6	5517.1	11036.0	15475.6	14702.8	14216.3	11544.4	11381.1
65°	2468.2	2466.5	2538.9	2629.8	3081.0	8519.0	15598.5	17977.4	17452.2	12657.3	12317.2
67.5°	1921.0	1958.0	2030.4	2298.1	2314.9	4458.2	14517.6	20002.8	19992.7	14356.0	13413.2
70°	1481.6	1532.1	1634.8	2025.4	2138.2	2495.1	10862.6	19361.3	19524.7	15115.3	12637.1
72.5°	951.2	947.9	1099.4	1636.5	2054.0	2079.2	6007.1	15379.6	15564.8	13691.0	10217.7
75°	532.0	535.4	621.2	1001.7	1914.2	1956.3	2974.9	10966.9	11113.4	10674.0	7850.6
77.5°	208.8	215.5	291.3	527.0	1262.7	1747.6	1767.8	7478.5	7500.4	6614.8	4815.1
80°	84.2	89.2	148.2	326.6	769.4	1176.8	1262.7	4406.0	4316.7	2560.7	1400.8
82.5°	25.3	26.9	58.9	185.2	402.4	836.7	851.9	1690.3	1596.0	550.5	356.9
85°	1.7	1.7	13.5	57.2	143.1	210.4	567.4	550.5	488.2	138.1	158.3
87.5°	0.0	0.0	1.7	1.7	3.4	6.7	60.6	101.0	102.7	25.3	70.7
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°	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4	4515.4
2.5°	4530.6	4469.9	4464.9	4417.8	4370.6	4311.7	4242.7	4192.2	4156.8	4094.5	4082.7
5°	4523.8	4443.0	4367.2	4232.6	4082.7	3921.1	3779.7	3648.4	3565.9	3510.3	3486.7
7.5°	4510.4	4407.7	4232.6	3978.3	3727.5	3444.6	3224.1	3022.1	2884.0	2803.2	2767.8
10°	4500.3	4362.2	4077.7	3692.1	3303.2	2912.6	2577.6	2277.9	2111.2	1979.9	1958.0
12.5°	4480.0	4296.5	3879.0	3357.1	2855.4	2336.8	1909.2	1542.2	1288.0	1173.5	1133.1
15°	4459.8	4227.5	3680.3	3003.5	2367.1	1727.4	1208.8	855.3	680.2	626.3	622.9
17.5°	4456.5	4165.2	3464.8	2668.5	1855.3	1131.4	688.6	553.9	516.9	503.4	503.4
20°	4466.6	4113.0	3252.7	2283.0	1351.9	688.6	513.5	479.8	457.9	446.2	446.2
22.5°	4476.7	4059.1	3049.0	1894.0	897.4	503.4	452.9	424.3	399.0	385.5	378.8
25°	4483.4	4000.2	2823.4	1503.5	585.9	437.7	397.3	360.3	330.0	313.1	313.1
27.5°	4481.7	3929.5	2596.1	1121.3	454.6	388.9	340.1	301.4	271.1	252.5	254.2
30°	4468.3	3852.1	2360.4	782.9	397.3	340.1	291.3	250.9	220.6	205.4	203.7
32.5°	4458.2	3769.6	2087.7	550.5	356.9	298.0	247.5	208.8	183.5	171.7	170.0
35°	4446.4	3688.8	1828.4	419.2	321.6	257.6	208.8	176.8	156.6	146.5	146.5
37.5°	4449.7	3604.6	1547.2	360.3	286.2	223.9	178.5	151.5	134.7	124.6	122.9
40°	4501.9	3554.1	1271.1	326.6	254.2	193.6	154.9	131.3	114.5	104.4	102.7
42.5°	4631.6	3555.8	1006.8	301.4	225.6	165.0	134.7	112.8	97.6	85.9	84.2
45°	4890.8	3626.5	772.8	274.4	195.3	143.1	116.2	96.0	80.8	70.7	69.0
47.5°	5315.1	3836.9	585.9	250.9	170.0	124.6	99.3	80.8	67.3	58.9	57.2
50°	5990.2	4217.4	461.3	222.2	143.1	107.8	84.2	67.3	55.6	47.1	45.5
52.5°	6801.7	4788.1	395.6	197.0	122.9	94.3	72.4	55.6	45.5	38.7	37.0
55°	7734.4	5470.0	365.3	171.7	104.4	80.8	58.9	45.5	37.0	32.0	28.6
57.5°	8589.7	6084.5	363.7	146.5	89.2	69.0	48.8	38.7	32.0	25.3	23.6
60°	9423.1	6598.0	341.8	121.2	77.4	57.2	42.1	32.0	26.9	21.9	20.2
62.5°	10179.0	7015.5	286.2	97.6	65.7	47.1	35.4	28.6	23.6	18.5	18.5
65°	11128.6	7547.6	218.9	79.1	53.9	38.7	30.3	25.3	21.9	16.8	16.8
67.5°	12110.1	7828.7	156.6	65.7	43.8	33.7	26.9	23.6	18.5	15.2	15.2
70°	10968.6	6614.8	112.8	53.9	37.0	28.6	23.6	21.9	18.5	15.2	13.5
72.5°	8566.1	4769.6	84.2	42.1	32.0	26.9	21.9	20.2	16.8	13.5	13.5
75°	6352.2	2781.3	64.0	33.7	25.3	21.9	21.9	20.2	16.8	13.5	11.8
77.5°	3453.1	969.8	48.8	26.9	20.2	16.8	18.5	18.5	15.2	11.8	10.1
80°	914.2	266.0	33.7	20.2	16.8	13.5	13.5	16.8	13.5	10.1	10.1
82.5°	266.0	77.4	23.6	16.8	13.5	11.8	11.8	11.8	10.1	8.4	6.7
85°	129.6	28.6	16.8	13.5	11.8	10.1	8.4	8.4	6.7	5.1	5.1
87.5°	57.2	11.8	13.5	11.8	11.8	8.4	6.7	5.1	5.1	3.4	1.7
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)