

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: P642493

Luminaire Tested: GWS-SA6D-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25341 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

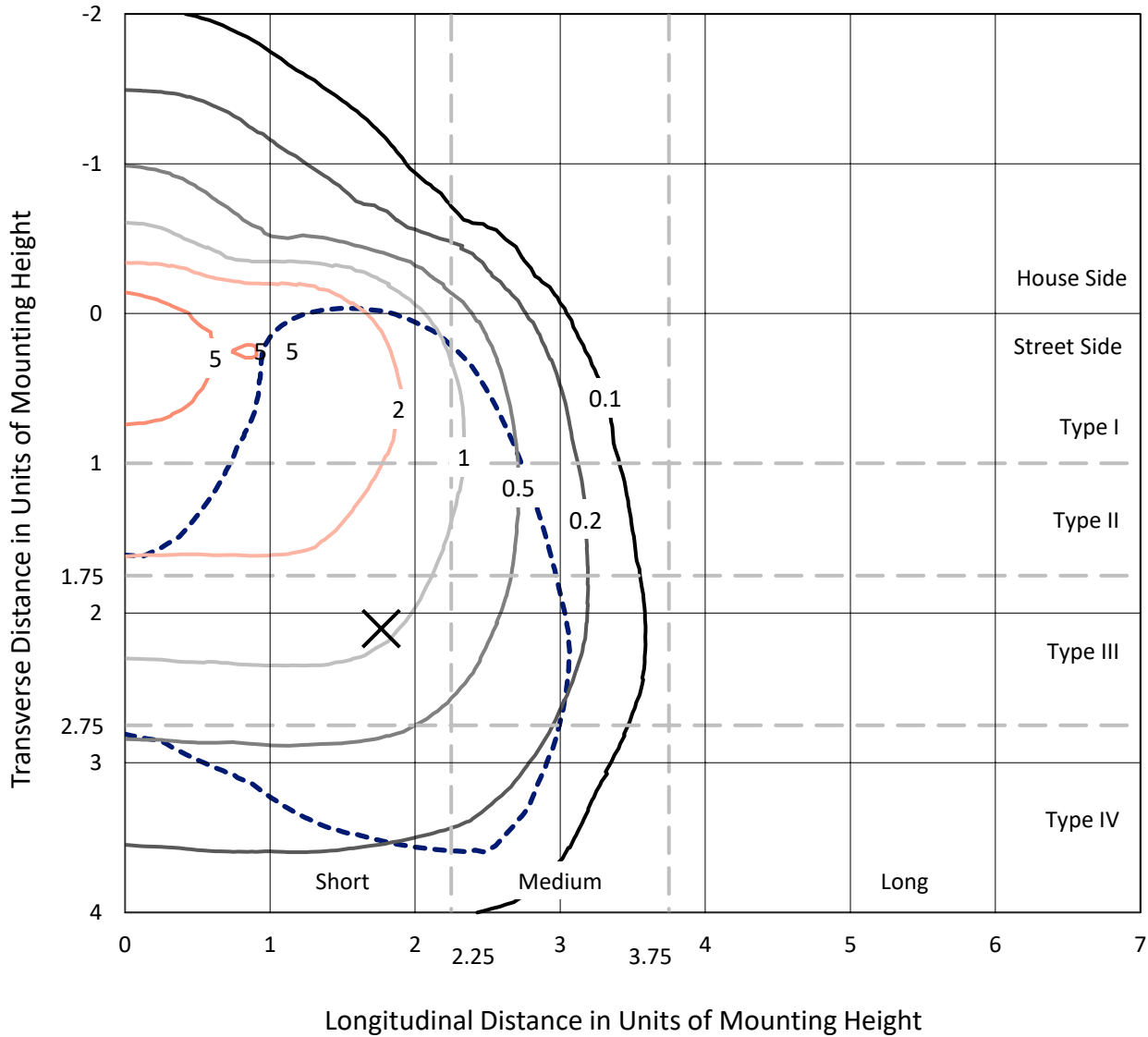
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

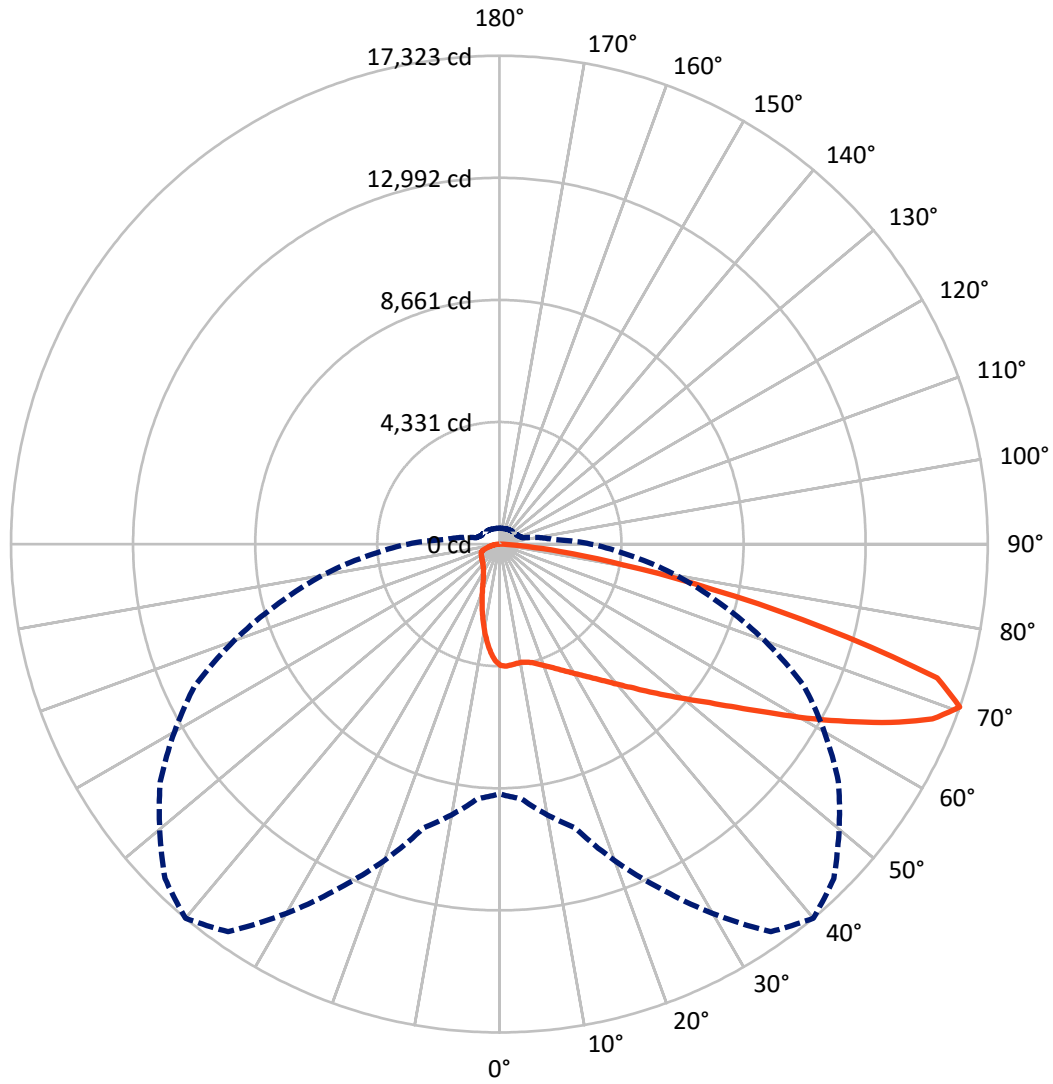
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3903.2	0.0	3903.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	21437.8	0.0	21437.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	25341.0	0.0	25341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.5
10°-20°	990.9	3.9
20°-30°	1555.9	6.1
30°-40°	2339.3	9.2
40°-50°	3610.8	14.2
50°-60°	5362.3	21.2
60°-70°	6759.1	26.7
70°-80°	3908.8	15.4
80°-90°	433.8	1.7
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°	25341.0	100.0
0°-180°	25341.0	100.0

Coefficient of Utilization



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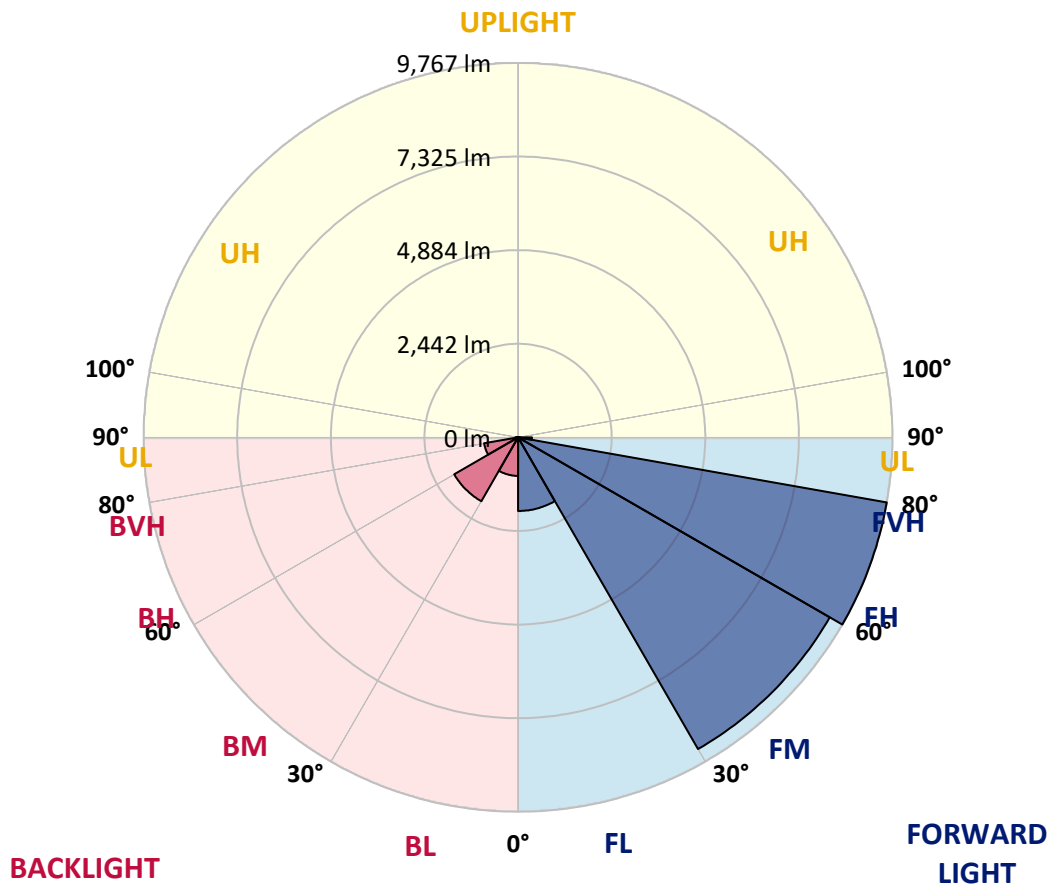
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.0	7.6			
FM (30°-60°)	9388.5	37.0			
FH (60°-80°)	9767.0	38.5			G4/12000
FVH (80°-90°)	361.3	1.4			G3/500
BL (0°-30°)	1005.9	4.0	B3/2500		
BM (30°-60°)	1923.9	7.6	B2/2500		
BH (60°-80°)	900.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	72.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2
2.5°	4329.7	4337.2	4342.9	4350.5	4346.7	4335.3	4344.8	4344.8	4324.0	4301.3	4280.5
5°	4335.3	4344.8	4342.9	4341.0	4325.9	4307.0	4307.0	4295.6	4259.7	4223.7	4189.7
7.5°	4324.0	4322.1	4320.2	4314.5	4297.5	4276.7	4272.9	4250.2	4202.9	4153.8	4104.6
10°	4272.9	4271.0	4276.7	4290.0	4286.2	4267.3	4267.3	4246.4	4191.6	4131.1	4066.8
12.5°	4231.3	4231.3	4254.0	4290.0	4303.2	4295.6	4297.5	4282.4	4220.0	4148.1	4072.4
15°	4237.0	4238.9	4288.1	4346.7	4371.3	4365.6	4367.5	4350.5	4280.5	4208.6	4106.5
17.5°	4274.8	4284.3	4369.4	4450.7	4482.9	4475.3	4462.1	4433.7	4354.3	4272.9	4148.1
20°	4354.3	4369.4	4479.1	4581.2	4619.1	4602.1	4579.4	4522.6	4435.6	4346.7	4193.5
22.5°	4511.3	4520.7	4641.8	4742.0	4772.3	4751.5	4706.1	4624.7	4524.5	4431.8	4248.3
25°	4732.6	4743.9	4859.3	4952.0	4944.4	4919.8	4857.4	4757.2	4638.0	4539.6	4327.8
27.5°	4995.5	5014.4	5127.9	5201.7	5152.5	5116.5	5046.6	4925.5	4791.2	4702.3	4448.8
30°	5283.0	5290.6	5387.0	5460.8	5385.1	5336.0	5250.8	5120.3	4999.3	4933.1	4630.4
32.5°	5561.0	5568.6	5651.8	5693.5	5614.0	5578.1	5504.3	5366.2	5281.1	5245.2	4900.9
35°	5854.2	5852.3	5920.4	5956.4	5875.0	5859.9	5784.2	5678.3	5663.2	5710.5	5296.2
37.5°	6147.4	6130.4	6166.3	6213.6	6168.2	6183.4	6134.2	6098.2	6156.9	6279.8	5822.1
40°	6382.0	6382.0	6419.8	6478.4	6493.6	6559.8	6531.4	6578.7	6767.8	7061.0	6472.8
42.5°	6590.0	6591.9	6671.4	6762.2	6871.9	6974.0	6996.7	7119.7	7511.2	7970.8	7289.9
45°	6807.6	6809.4	6917.3	7049.7	7282.3	7477.2	7522.5	7798.7	8358.6	8918.5	8177.0
47.5°	7059.1	7038.3	7187.7	7409.1	7740.1	8020.0	8137.3	8528.8	9236.3	9924.8	9013.1
50°	7342.9	7299.3	7465.8	7847.9	8256.5	8640.4	8837.1	9285.4	10178.2	10853.5	9799.9
52.5°	7662.5	7637.9	7811.9	8277.3	8901.5	9344.1	9610.8	10199.0	11093.7	11778.5	10424.1
55°	8059.7	8001.1	8252.7	8844.7	9658.1	10221.7	10537.6	11103.2	12094.3	12618.3	10900.8
57.5°	8494.8	8430.5	8767.2	9554.0	10641.7	11260.2	11655.5	12120.8	13036.3	13261.4	11180.7
60°	8963.9	8943.1	9342.2	10386.3	11814.4	12533.2	12818.8	13240.6	13855.3	13634.0	11110.7
62.5°	9393.3	9385.7	9966.4	11288.6	13057.1	13847.8	14074.7	14186.3	14445.5	13609.4	10554.6
65°	9845.3	9909.6	10694.6	12334.6	14481.4	15256.9	15351.5	15067.8	14644.1	12964.4	9416.0
67.5°	9902.1	10026.9	11152.4	13314.4	15832.0	16564.0	16488.3	15402.6	14057.7	11169.4	7380.7
70°	8856.1	9073.6	10422.2	13463.8	16783.4	17322.5	16775.8	14681.9	11929.8	8091.9	4641.8
72.5°	7399.6	7586.9	8778.5	11481.5	15555.8	16242.4	15502.8	12427.2	8430.5	4641.8	2364.4
75°	5759.7	5977.2	7076.2	9126.6	11646.0	11920.3	11549.6	8666.9	4634.2	1914.2	1074.4
77.5°	3514.4	3671.4	4526.4	6183.4	8148.6	7738.2	6557.9	4859.3	2033.4	917.4	663.9
80°	1554.8	1651.3	2230.1	3321.5	4708.0	4450.7	3508.8	2075.0	1112.2	582.6	463.4
82.5°	834.2	896.6	1099.0	1314.6	2067.4	2162.0	1753.4	1195.4	597.7	332.9	264.8
85°	367.0	402.9	499.4	476.7	679.1	667.7	673.4	820.9	285.6	153.2	172.1
87.5°	0.0	0.0	0.0	0.0	1.9	1.9	20.8	109.7	28.4	45.4	39.7
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°	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2	4303.2
2.5°	4257.8	4223.7	4214.3	4202.9	4182.1	4146.2	4119.7	4089.5	4076.2	4061.1	4063.0
5°	4151.9	4110.3	4070.5	4019.5	3955.2	3883.3	3834.1	3777.4	3747.1	3718.7	3726.3
7.5°	4061.1	3996.8	3915.4	3807.6	3692.2	3563.6	3459.6	3378.2	3323.4	3285.6	3304.5
10°	4004.3	3928.7	3786.8	3610.9	3416.1	3219.4	3069.9	2930.0	2842.9	2774.8	2771.1
12.5°	3993.0	3894.6	3688.5	3433.1	3151.3	2888.3	2668.9	2479.8	2364.4	2279.3	2311.4
15°	4004.3	3879.5	3603.3	3268.5	2912.9	2557.3	2284.9	2067.4	1929.3	1851.8	1846.1
17.5°	4017.6	3864.4	3506.9	3090.7	2663.3	2256.6	1940.7	1709.9	1568.1	1490.5	1492.4
20°	4028.9	3841.7	3393.4	2895.9	2409.8	1976.6	1649.4	1430.0	1303.3	1246.5	1256.0
22.5°	4047.8	3819.0	3272.3	2687.8	2150.7	1706.1	1418.6	1240.8	1165.2	1127.3	1129.2
25°	4083.8	3805.7	3147.5	2460.9	1895.3	1490.5	1259.7	1140.6	1093.3	1070.6	1068.7
27.5°	4157.5	3817.1	3017.0	2241.4	1664.5	1326.0	1157.6	1080.1	1047.9	1032.8	1030.9
30°	4280.5	3862.5	2903.5	2018.2	1465.9	1197.3	1087.6	1040.3	1021.4	1008.2	1006.3
32.5°	4467.8	3947.6	2780.5	1810.2	1305.1	1102.8	1032.8	1008.2	994.9	987.4	987.4
35°	4751.5	4102.7	2659.5	1628.6	1180.3	1029.0	989.3	979.8	968.5	964.7	968.5
37.5°	5160.0	4350.5	2549.8	1469.7	1091.4	972.2	942.0	945.8	936.3	942.0	947.6
40°	5678.3	4681.5	2457.1	1339.2	1025.2	930.6	900.4	913.6	907.9	913.6	923.1
42.5°	6334.7	5092.0	2387.1	1237.0	977.9	896.6	868.2	881.4	877.7	885.2	894.7
45°	7066.7	5632.9	2354.9	1165.2	943.9	872.0	841.7	851.2	847.4	853.1	862.5
47.5°	7768.4	6124.7	2383.3	1123.6	915.5	851.2	819.0	822.8	820.9	819.0	824.7
50°	8373.7	6516.3	2464.6	1110.3	896.6	830.4	800.1	802.0	796.3	785.0	788.8
52.5°	8867.4	6830.3	2513.8	1110.3	887.1	807.7	779.3	781.2	769.8	754.7	756.6
55°	9192.8	6957.0	2474.1	1108.4	883.3	788.8	758.5	760.4	749.0	730.1	732.0
57.5°	9285.4	6834.0	2307.6	1087.6	879.6	773.6	737.7	741.5	733.9	713.1	713.1
60°	9026.3	6383.9	2003.1	1040.3	870.1	764.2	722.6	728.2	724.4	703.6	703.6
62.5°	8347.2	5583.7	1639.9	968.5	843.6	752.8	709.3	720.7	730.1	718.8	716.9
65°	7076.2	4473.4	1333.5	889.0	809.6	733.9	690.4	718.8	739.6	754.7	754.7
67.5°	5309.5	3202.3	1087.6	805.8	758.5	696.1	665.8	692.3	707.4	716.9	722.6
70°	3236.4	1883.9	856.9	709.3	684.7	639.3	616.6	590.2	569.3	565.6	567.5
72.5°	1583.2	1078.2	696.1	603.4	584.5	542.9	491.8	480.4	471.0	465.3	463.4
75°	872.0	750.9	575.0	501.3	467.2	416.1	404.8	385.9	382.1	374.5	376.4
77.5°	616.6	592.0	474.8	406.7	355.6	329.1	334.8	321.6	321.6	315.9	314.0
80°	463.4	465.3	365.1	297.0	262.9	253.5	259.1	259.1	255.4	253.5	251.6
82.5°	293.2	331.0	245.9	191.0	187.3	189.2	187.3	185.4	189.2	183.5	181.6
85°	202.4	238.3	149.4	113.5	113.5	111.6	115.4	113.5	117.3	111.6	111.6
87.5°	45.4	105.9	54.9	34.0	35.9	34.0	35.9	37.8	41.6	43.5	43.5
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)