

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: P639752

Luminaire Tested: GWS-SA5C-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23769 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

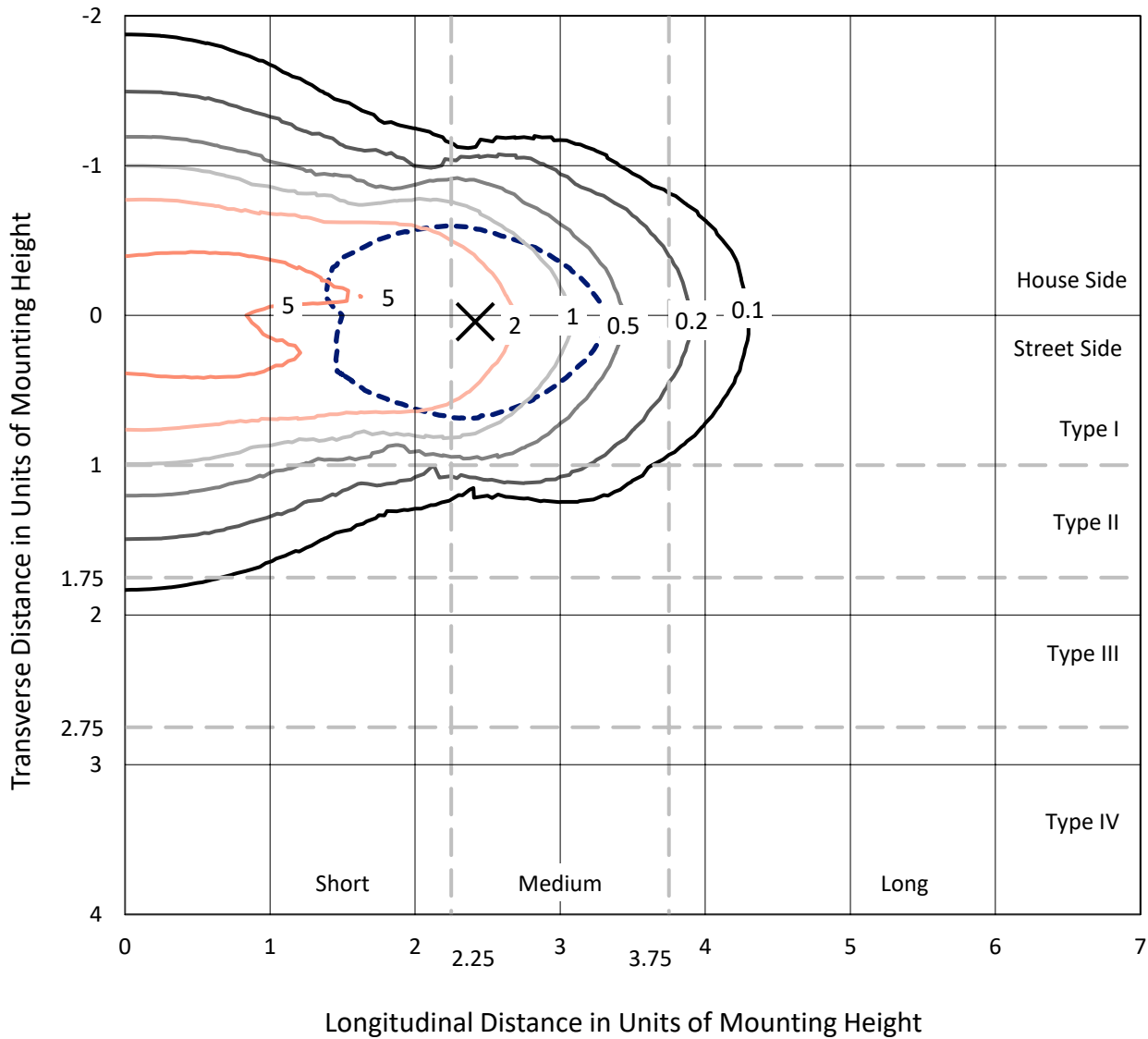
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639752
 CATALOG NUMBER: GWS-SA5C-740-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

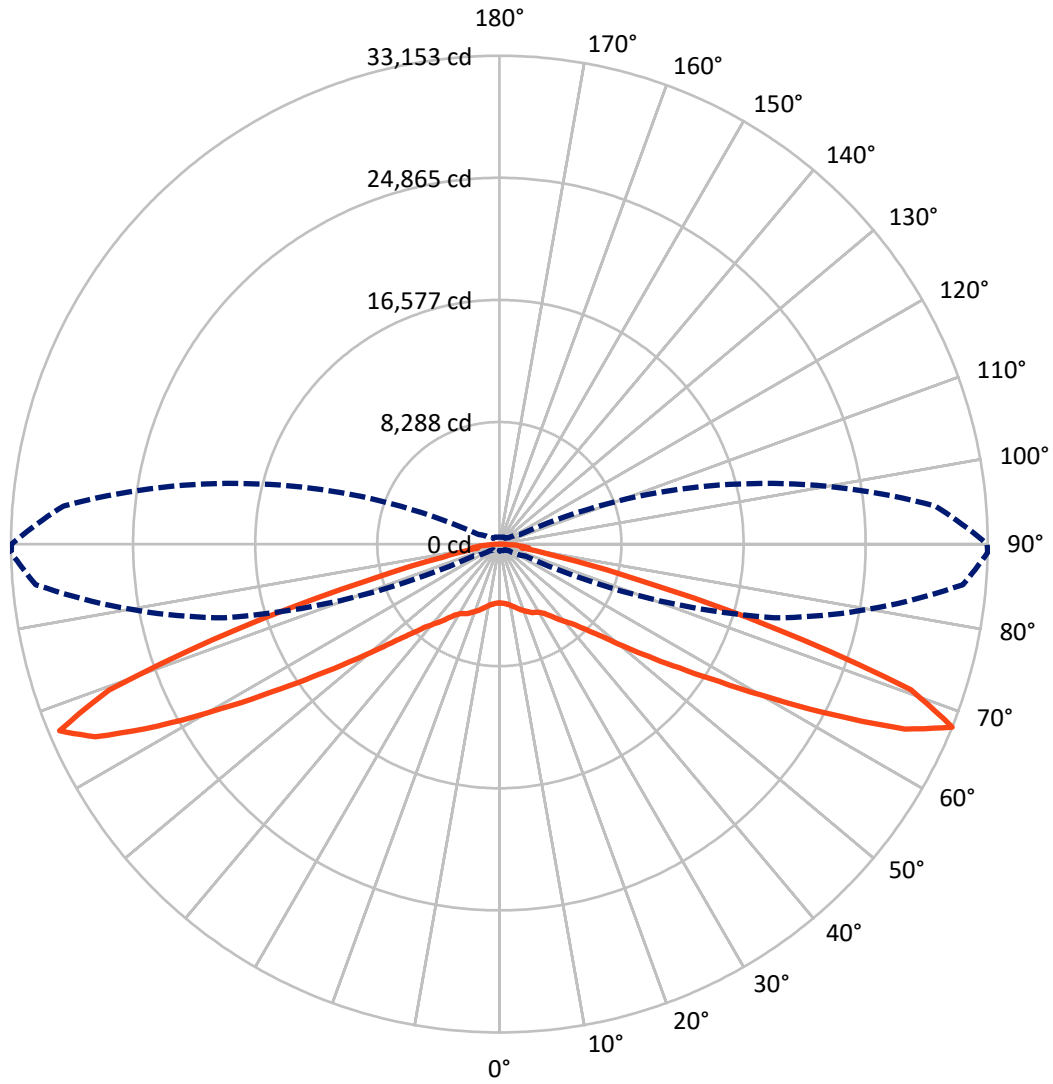
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type I - Medium - N/A

REPORT NUMBER: P639752
CATALOG NUMBER: GWS-SA5C-740-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639752

CATALOG NUMBER: GWS-SA5C-740-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11780.3	0.0	11780.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11988.7	0.0	11988.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	23769.0	0.0	23769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.7
10°-20°	1303.0	5.5
20°-30°	2202.7	9.3
30°-40°	3022.9	12.7
40°-50°	3854.9	16.2
50°-60°	4836.5	20.3
60°-70°	5833.3	24.5
70°-80°	2110.3	8.9
80°-90°	205.2	0.9
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°	23769.0	100.0
0°-180°	23769.0	100.0

Coefficient of Utilization



REPORT NUMBER: P639752

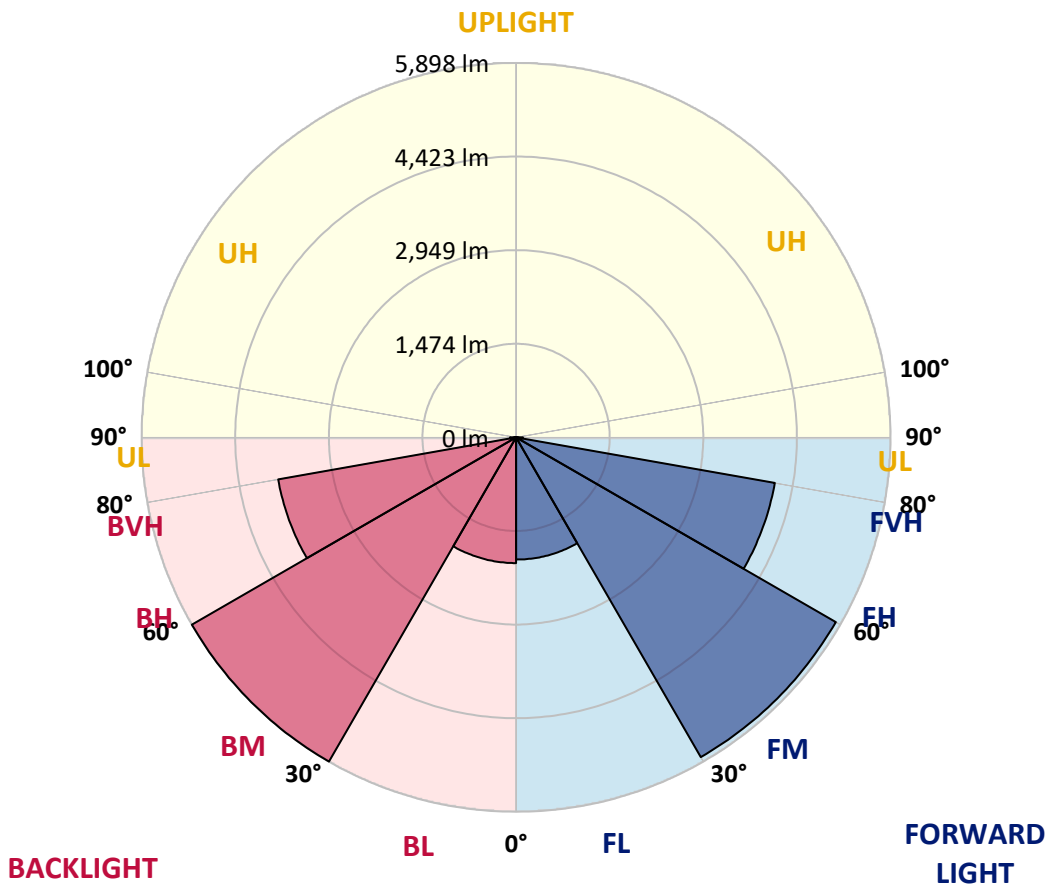
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.1	8.1			
FM (30°-60°)	5816.7	24.5			
FH (60°-80°)	4138.5	17.4			G2/5000
FVH (80°-90°)	108.3	0.5			G2/225
BL (0°-30°)	1980.8	8.3	B3/2500		
BM (30°-60°)	5897.6	24.8	B4/8500		
BH (60°-80°)	3805.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	96.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





REPORT NUMBER: P639752
 CATALOG NUMBER: GWS-SA5C-740-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4
2.5°	4001.4	3998.0	3989.4	4015.0	4009.9	4011.6	4021.9	4015.0	4003.1	3982.6	4011.6
5°	4114.1	4112.3	4093.6	4108.9	4091.9	4079.9	4078.2	4061.1	4047.5	4025.3	4056.0
7.5°	4223.3	4221.6	4206.2	4233.5	4219.9	4206.2	4190.9	4156.7	4124.3	4091.9	4126.0
10°	4307.0	4305.2	4301.8	4341.1	4344.5	4349.6	4342.8	4284.8	4228.4	4189.2	4223.3
12.5°	4354.7	4359.9	4368.4	4440.1	4476.0	4510.1	4518.6	4470.8	4376.9	4320.6	4361.6
15°	4322.3	4332.6	4375.2	4505.0	4604.0	4680.8	4713.2	4674.0	4552.8	4458.9	4505.0
17.5°	4167.0	4175.5	4259.2	4457.2	4675.7	4853.2	4906.1	4882.2	4747.4	4633.0	4677.4
20°	3951.9	3970.7	4061.1	4337.7	4663.7	4972.7	5114.4	5105.9	4959.1	4783.2	4836.1
22.5°	3757.3	3779.5	3875.1	4180.6	4583.5	5003.4	5324.4	5346.6	5152.0	4933.4	4976.1
25°	3538.8	3559.3	3682.2	3994.6	4445.2	4979.5	5503.6	5604.3	5370.5	5105.9	5145.1
27.5°	3315.1	3330.5	3451.7	3784.6	4264.3	4935.2	5645.3	5887.7	5585.6	5225.4	5252.7
30°	3118.8	3139.3	3250.3	3574.6	4066.3	4846.4	5761.4	6189.9	5833.1	5360.2	5382.4
32.5°	2929.3	2946.4	3067.6	3368.1	3856.3	4709.8	5865.5	6544.9	6200.1	5611.2	5611.2
35°	2690.4	2721.1	2857.6	3170.0	3658.3	4528.9	5940.6	6958.0	6702.0	5981.6	5983.3
37.5°	2470.1	2487.2	2630.6	2946.4	3450.0	4324.0	5947.5	7386.5	7337.0	6452.7	6456.2
40°	2219.2	2241.4	2395.0	2707.4	3211.0	4108.9	5882.6	7786.0	8002.8	6937.6	6918.8
42.5°	1964.8	1997.3	2144.1	2449.7	2953.2	3846.0	5710.2	8166.6	8847.8	7499.2	7453.1
45°	1719.0	1739.5	1886.3	2174.8	2657.9	3531.9	5433.6	8532.0	9851.5	8352.7	8286.1
47.5°	1442.5	1451.0	1602.9	1879.5	2352.3	3182.0	5037.6	8858.0	10954.3	9482.8	9368.4
50°	1196.7	1208.6	1328.1	1565.4	1978.5	2767.2	4544.2	9049.2	12359.2	11024.3	10826.3
52.5°	967.9	979.9	1075.5	1264.9	1635.4	2294.3	3933.1	9004.8	13784.6	12937.9	12649.4
55°	781.8	790.4	855.2	1003.8	1287.1	1824.9	3211.0	8607.1	15367.1	15437.1	14815.7
57.5°	660.6	664.1	708.4	798.9	1005.5	1406.6	2478.7	7668.2	17026.4	18625.9	17605.1
60°	590.6	592.4	612.8	669.2	793.8	1073.8	1816.3	6172.8	18745.4	22615.3	21215.5
62.5°	546.3	546.3	563.3	595.8	658.9	826.2	1334.9	4433.3	19979.6	26956.4	25565.2
65°	503.6	503.6	515.5	542.8	577.0	674.3	1002.1	2859.4	20585.6	30585.7	30276.7
67.5°	449.0	450.7	459.2	488.2	519.0	563.3	759.6	1934.1	19327.5	31589.4	33153.1
70°	397.7	399.5	411.4	430.2	455.8	486.5	594.1	1333.2	14068.0	26309.4	29643.4
72.5°	341.4	348.2	356.8	377.3	392.6	414.8	484.8	863.8	8185.4	16923.9	19595.5
75°	280.0	288.5	298.7	319.2	329.5	338.0	399.5	616.3	3938.2	8576.3	9766.2
77.5°	216.8	225.3	237.3	256.1	262.9	273.1	305.6	445.5	1886.3	3801.7	4098.7
80°	145.1	148.5	158.8	180.9	192.9	199.7	225.3	303.9	819.4	1526.1	1512.5
82.5°	88.8	90.5	93.9	107.5	112.7	119.5	146.8	186.1	390.9	1734.4	1988.7
85°	32.4	30.7	29.0	37.6	44.4	51.2	68.3	93.9	170.7	1191.5	1333.2
87.5°	0.0	0.0	0.0	1.7	3.4	3.4	6.8	13.7	41.0	445.5	305.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639752
 CATALOG NUMBER: GWS-SA5C-740-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4
2.5°	4003.1	3984.3	4008.2	4025.3	4062.8	4076.5	4079.9	4068.0	4068.0	4047.5	4050.9
5°	4049.2	4037.2	4076.5	4105.5	4160.1	4180.6	4194.3	4185.7	4190.9	4177.2	4180.6
7.5°	4119.2	4108.9	4177.2	4233.5	4289.9	4313.8	4325.7	4318.9	4320.6	4303.5	4308.7
10°	4216.5	4219.9	4301.8	4375.2	4450.3	4474.2	4479.4	4458.9	4441.8	4411.1	4412.8
12.5°	4349.6	4366.7	4482.8	4564.7	4641.5	4675.7	4638.1	4563.0	4493.0	4440.1	4433.3
15°	4494.7	4525.5	4692.8	4796.9	4880.5	4863.5	4752.5	4583.5	4445.2	4366.7	4351.3
17.5°	4668.9	4714.9	4924.9	5049.5	5121.2	5012.0	4779.8	4527.2	4334.3	4228.4	4207.9
20°	4832.7	4906.1	5170.7	5332.9	5341.4	5095.6	4767.9	4412.8	4170.4	4040.6	4013.3
22.5°	4983.0	5076.8	5428.5	5635.1	5524.1	5133.2	4694.5	4250.6	3972.4	3820.4	3796.5
25°	5146.8	5280.0	5728.9	5921.8	5706.8	5117.8	4540.8	4049.2	3733.4	3578.0	3561.0
27.5°	5259.5	5426.8	6031.1	6215.5	5857.0	5030.8	4342.8	3829.0	3514.9	3368.1	3344.2
30°	5389.2	5602.6	6364.0	6534.7	5949.2	4902.7	4131.1	3624.1	3311.7	3153.0	3135.9
32.5°	5624.8	5892.8	6777.1	6872.7	5978.2	4744.0	3928.0	3426.1	3100.0	2941.3	2917.4
35°	6003.8	6317.9	7357.5	7249.9	5956.0	4569.8	3735.1	3193.9	2883.3	2734.7	2710.8
37.5°	6481.8	6872.7	8004.5	7589.7	5894.5	4378.6	3506.3	2999.3	2688.6	2538.4	2524.8
40°	6927.3	7408.7	8730.0	7883.3	5769.9	4143.1	3286.1	2796.2	2478.7	2319.9	2289.2
42.5°	7485.5	8125.7	9569.9	8137.6	5565.1	3861.4	3038.6	2545.2	2215.8	2072.4	2034.8
45°	8333.9	9129.4	10546.3	8381.7	5259.5	3514.9	2727.9	2239.7	1927.3	1780.5	1751.5
47.5°	9392.3	10384.1	11604.7	8526.8	4795.2	3149.6	2376.2	1917.0	1604.7	1439.1	1425.4
50°	10879.2	12209.0	12739.9	8501.2	4276.2	2716.0	1980.2	1533.0	1271.8	1152.3	1133.5
52.5°	12690.4	14499.9	13967.3	8194.0	3724.8	2222.6	1543.2	1203.5	1008.9	923.5	908.2
55°	14962.5	17243.2	15259.5	7535.0	3028.4	1702.0	1212.0	949.1	816.0	764.8	757.9
57.5°	17775.8	20795.6	16504.0	6425.4	2277.2	1299.1	933.8	783.5	720.4	689.7	688.0
60°	21488.7	24566.5	17584.6	4993.2	1630.3	993.5	771.6	699.9	650.4	629.9	628.2
62.5°	25903.2	27990.9	18257.2	3400.5	1225.7	792.1	679.4	635.0	606.0	594.1	592.4
65°	30440.6	30155.5	17936.2	2227.7	930.4	672.6	609.4	585.5	559.9	548.0	548.0
67.5°	33120.7	29698.0	15472.9	1546.6	737.5	590.6	549.7	527.5	484.8	474.6	474.6
70°	29336.1	24064.6	10141.7	1131.8	597.5	517.2	478.0	447.3	430.2	419.9	418.2
72.5°	19402.6	15659.0	5392.7	785.3	498.5	440.4	404.6	392.6	372.1	361.9	360.2
75°	9656.9	8224.7	2763.8	566.7	414.8	353.4	338.0	332.9	315.8	302.2	298.7
77.5°	4025.3	3661.7	1288.8	411.4	315.8	285.1	271.4	271.4	252.6	237.3	230.5
80°	1517.6	1352.0	609.4	281.7	233.9	211.7	203.1	196.3	180.9	162.2	151.9
82.5°	2029.7	1326.4	298.7	175.8	153.6	136.6	124.6	119.5	111.0	102.4	95.6
85°	1314.4	942.3	134.9	90.5	76.8	58.0	51.2	47.8	42.7	37.6	34.1
87.5°	268.0	315.8	41.0	17.1	10.2	5.1	5.1	1.7	0.0	0.0	0.0
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)