

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: P638542

Luminaire Tested: GWS-SA4F-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638542
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-SA4F-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25016.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

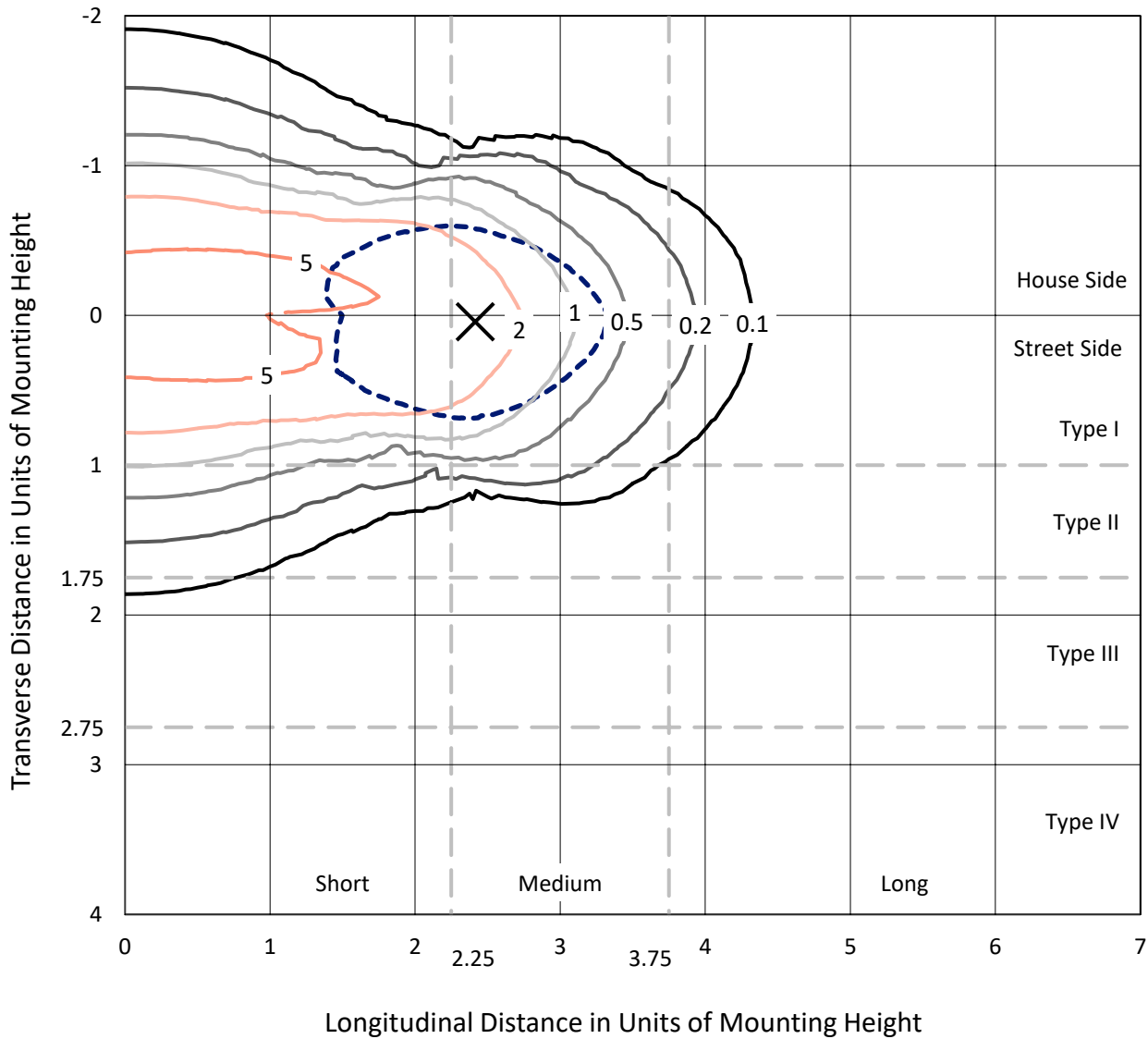
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638542
 CATALOG NUMBER: GWS-SA4F-722-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

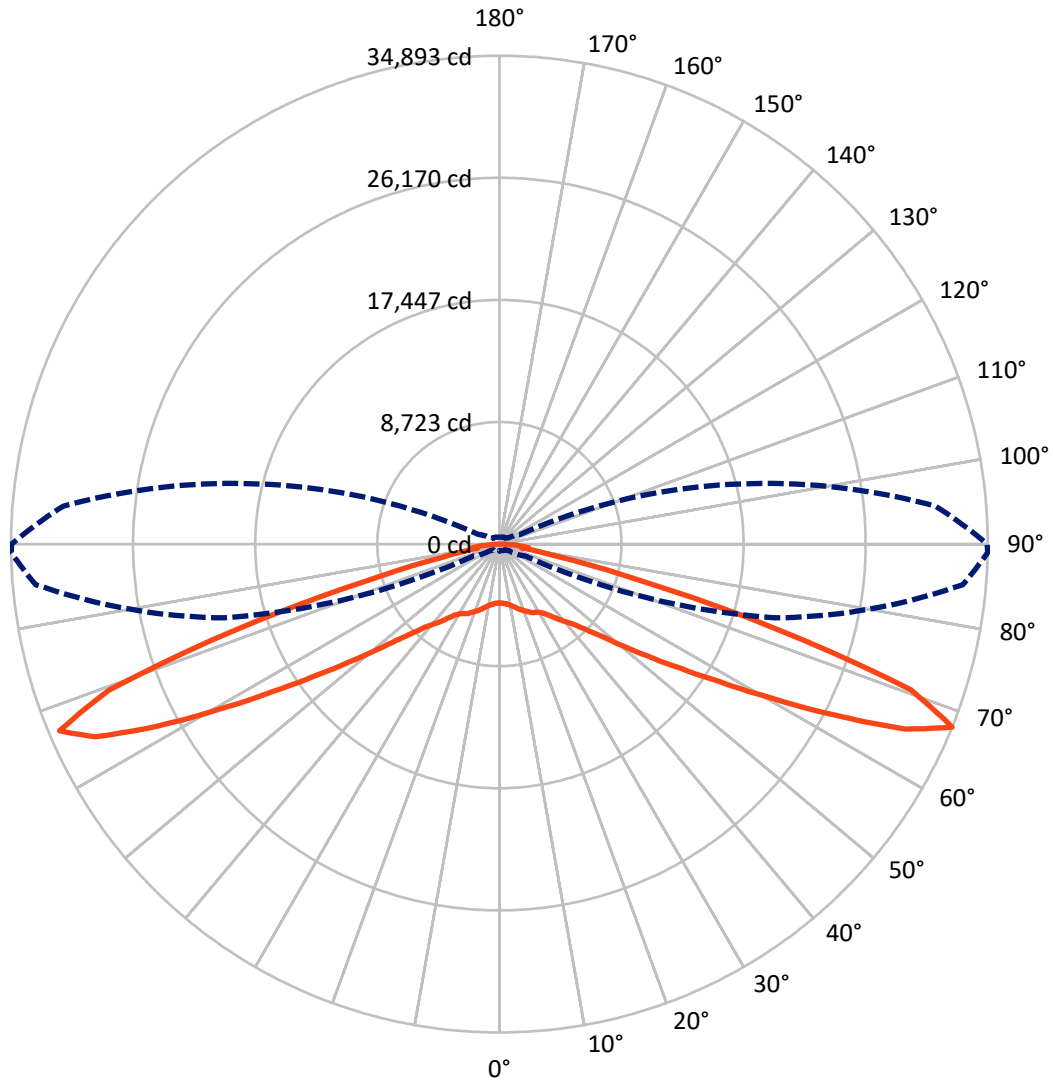
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type I - Medium - N/A

REPORT NUMBER: P638542
CATALOG NUMBER: GWS-SA4F-722-U-T1-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638542

CATALOG NUMBER: GWS-SA4F-722-U-T1-W

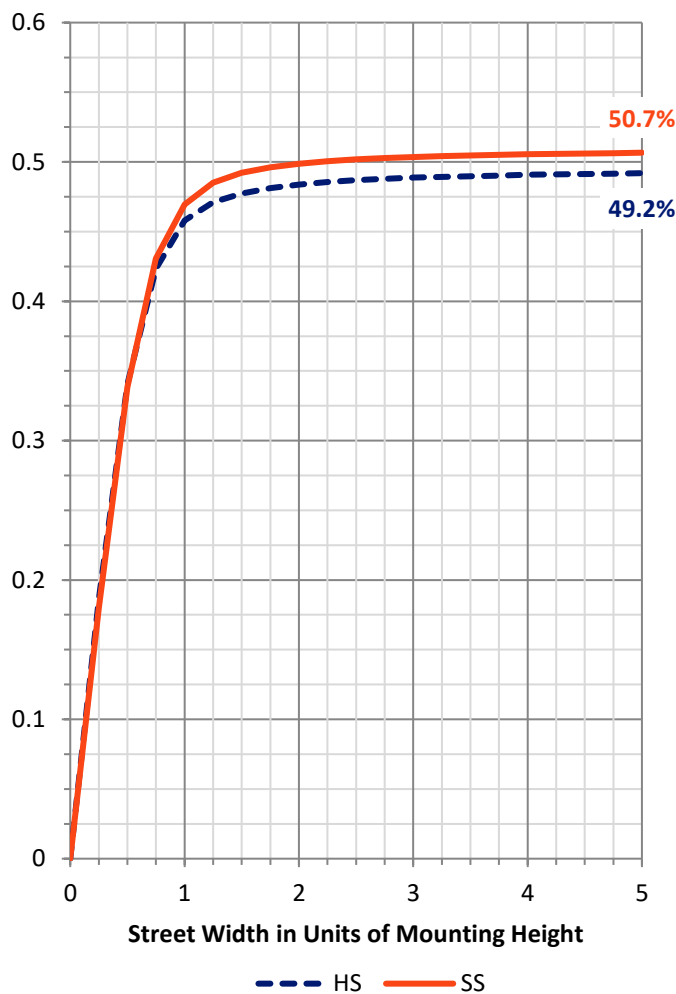
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12398.6	0.0	12398.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12617.9	0.0	12617.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	25016.5	0.0	25016.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.7
10°-20°	1371.4	5.5
20°-30°	2318.3	9.3
30°-40°	3181.6	12.7
40°-50°	4057.2	16.2
50°-60°	5090.4	20.3
60°-70°	6139.4	24.5
70°-80°	2221.1	8.9
80°-90°	216.0	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°	25016.5	100.0
0°-180°	25016.5	100.0

Coefficient of Utilization



REPORT NUMBER: P638542

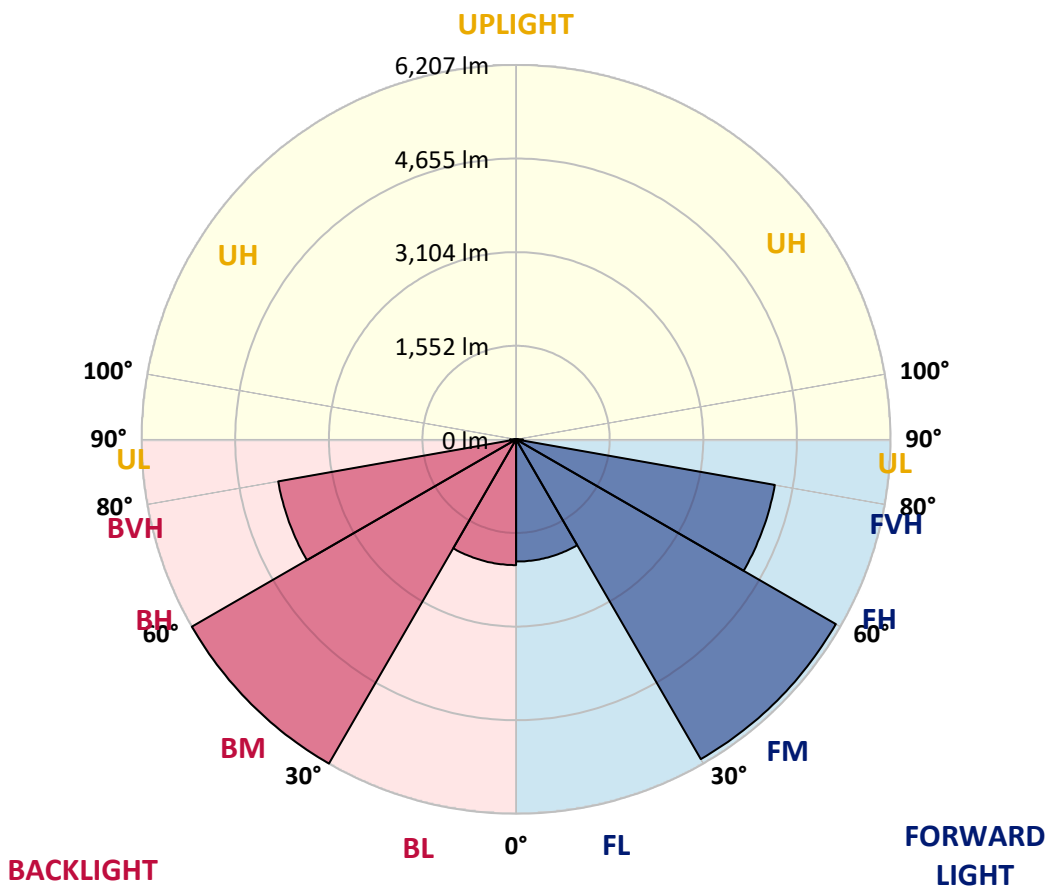
CATALOG NUMBER: GWS-SA4F-722-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2026.1	8.1			
FM (30°-60°)	6122.0	24.5			
FH (60°-80°)	4355.7	17.4			G2/5000
FVH (80°-90°)	114.0	0.5			G2/225
BL (0°-30°)	2084.7	8.3	B3/2500		
BM (30°-60°)	6207.1	24.8	B4/8500		
BH (60°-80°)	4004.8	16.0	B4/5000		G4/5000
BVH (80°-90°)	102.0	0.4			G2/225
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: P638542
 CATALOG NUMBER: GWS-SA4F-722-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8
2.5°	4211.4	4207.8	4198.8	4225.8	4220.4	4222.2	4233.0	4225.8	4213.2	4191.6	4222.2
5°	4330.0	4328.2	4308.4	4324.6	4306.6	4294.0	4292.2	4274.3	4259.9	4236.5	4268.9
7.5°	4445.0	4443.2	4427.0	4455.7	4441.4	4427.0	4410.8	4374.9	4340.8	4306.6	4342.6
10°	4533.0	4531.2	4527.6	4568.9	4572.5	4577.9	4570.7	4509.6	4450.4	4409.0	4445.0
12.5°	4583.3	4588.7	4597.7	4673.1	4710.9	4746.8	4755.8	4705.5	4606.7	4547.4	4590.5
15°	4549.2	4559.9	4604.9	4741.4	4845.6	4926.5	4960.6	4919.3	4791.7	4692.9	4741.4
17.5°	4385.7	4394.7	4482.7	4691.1	4921.1	5107.9	5163.6	5138.5	4996.5	4876.2	4922.9
20°	4159.3	4179.1	4274.3	4565.3	4908.5	5233.7	5382.8	5373.8	5219.3	5034.3	5090.0
22.5°	3954.5	3977.8	4078.4	4400.0	4824.1	5266.0	5603.8	5627.2	5422.4	5192.4	5237.3
25°	3724.5	3746.1	3875.4	4204.2	4678.5	5240.9	5792.5	5898.5	5652.3	5373.8	5415.2
27.5°	3489.1	3505.3	3632.9	3983.2	4488.1	5194.2	5941.6	6196.7	5878.7	5499.6	5528.4
30°	3282.5	3304.1	3420.9	3762.2	4279.7	5100.7	6063.8	6514.7	6139.2	5641.5	5664.9
32.5°	3083.1	3101.1	3228.6	3544.8	4058.7	4957.0	6173.4	6888.4	6525.5	5905.7	5905.7
35°	2831.6	2863.9	3007.6	3336.4	3850.3	4766.6	6252.4	7323.2	7053.7	6295.5	6297.3
37.5°	2599.8	2617.7	2768.7	3101.1	3631.1	4551.0	6259.6	7774.2	7722.1	6791.4	6795.0
40°	2335.7	2359.0	2520.7	2849.5	3379.5	4324.6	6191.3	8194.6	8422.8	7301.7	7281.9
42.5°	2068.0	2102.1	2256.6	2578.2	3108.2	4047.9	6009.9	8595.3	9312.1	7892.8	7844.3
45°	1809.2	1830.8	1985.3	2289.0	2797.4	3717.3	5718.8	8979.8	10368.6	8791.1	8721.0
47.5°	1518.2	1527.2	1687.1	1978.1	2475.8	3349.0	5302.0	9322.9	11529.2	9980.5	9860.1
50°	1259.5	1272.0	1397.8	1647.5	2082.3	2912.4	4782.7	9524.1	13007.9	11602.9	11394.5
52.5°	1018.7	1031.3	1131.9	1331.3	1721.2	2414.7	4139.5	9477.4	14508.1	13617.0	13313.3
55°	822.9	831.9	900.1	1056.4	1354.7	1920.6	3379.5	9058.8	16173.6	16247.3	15593.3
57.5°	695.3	698.9	745.6	840.8	1058.2	1480.5	2608.8	8070.6	17920.0	19603.5	18529.1
60°	621.6	623.4	645.0	704.3	835.5	1130.1	1911.7	6496.8	19729.2	23802.3	22329.0
62.5°	574.9	574.9	592.9	627.0	693.5	869.6	1405.0	4666.0	21028.2	28371.2	26906.9
65°	530.0	530.0	542.6	571.3	607.3	709.7	1054.6	3009.4	21666.0	32190.9	31865.7
67.5°	472.5	474.3	483.3	513.8	546.2	592.9	799.5	2035.6	20341.9	33247.4	34893.1
70°	418.6	420.4	433.0	452.8	479.7	512.1	625.2	1403.2	14806.4	27690.3	31199.2
72.5°	359.3	366.5	375.5	397.1	413.2	436.6	510.3	909.1	8615.0	17812.2	20624.0
75°	294.7	303.6	314.4	336.0	346.8	355.7	420.4	648.6	4144.9	9026.5	10278.7
77.5°	228.2	237.2	249.7	269.5	276.7	287.5	321.6	468.9	1985.3	4001.2	4313.8
80°	152.7	156.3	167.1	190.4	203.0	210.2	237.2	319.8	862.4	1606.2	1591.8
82.5°	93.4	95.2	98.8	113.2	118.6	125.8	154.5	195.8	411.4	1825.4	2093.1
85°	34.1	32.3	30.5	39.5	46.7	53.9	71.9	98.8	179.7	1254.1	1403.2
87.5°	0.0	0.0	0.0	1.8	3.6	3.6	7.2	14.4	43.1	468.9	321.6
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: P638542
 CATALOG NUMBER: GWS-SA4F-722-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8
2.5°	4213.2	4193.4	4218.6	4236.5	4276.1	4290.4	4294.0	4281.5	4281.5	4259.9	4263.5
5°	4261.7	4249.1	4290.4	4321.0	4378.5	4400.0	4414.4	4405.4	4410.8	4396.5	4400.0
7.5°	4335.4	4324.6	4396.5	4455.7	4515.0	4540.2	4552.8	4545.6	4547.4	4529.4	4534.8
10°	4437.8	4441.4	4527.6	4604.9	4683.9	4709.1	4714.5	4692.9	4674.9	4642.6	4644.4
12.5°	4577.9	4595.9	4718.1	4804.3	4885.1	4921.1	4881.6	4802.5	4728.8	4673.1	4666.0
15°	4730.6	4763.0	4939.0	5048.6	5136.7	5118.7	5001.9	4824.1	4678.5	4595.9	4579.7
17.5°	4913.9	4962.4	5183.4	5314.6	5390.0	5275.0	5030.7	4764.8	4561.7	4450.4	4428.8
20°	5086.4	5163.6	5442.1	5612.8	5621.8	5363.1	5018.1	4644.4	4389.3	4252.7	4224.0
22.5°	5244.5	5343.3	5713.4	5930.8	5814.0	5402.6	4940.8	4473.7	4180.9	4020.9	3995.8
25°	5417.0	5557.1	6029.6	6232.6	6006.3	5386.4	4779.1	4261.7	3929.3	3765.8	3747.9
27.5°	5535.5	5711.6	6347.6	6541.7	6164.4	5294.8	4570.7	4029.9	3699.3	3544.8	3519.7
30°	5672.1	5896.7	6698.0	6877.7	6261.4	5160.0	4347.9	3814.3	3485.5	3318.4	3300.5
32.5°	5920.0	6202.1	7132.8	7233.4	6291.9	4992.9	4134.1	3605.9	3262.8	3095.7	3070.5
35°	6318.9	6649.5	7743.6	7630.5	6268.6	4809.7	3931.1	3361.6	3034.6	2878.3	2853.1
37.5°	6822.0	7233.4	8424.6	7988.0	6203.9	4608.5	3690.4	3156.7	2829.8	2671.6	2657.3
40°	7290.9	7797.5	9188.2	8297.0	6072.7	4360.5	3458.6	2942.9	2608.8	2441.7	2409.3
42.5°	7878.4	8552.1	10072.1	8564.7	5857.1	4064.1	3198.1	2678.8	2332.1	2181.2	2141.6
45°	8771.3	9608.6	11099.8	8821.7	5535.5	3699.3	2871.1	2357.2	2028.4	1873.9	1843.4
47.5°	9885.3	10929.1	12213.8	8974.4	5046.8	3314.9	2501.0	2017.7	1688.9	1514.6	1500.2
50°	11450.2	12849.8	13408.5	8947.4	4500.7	2858.5	2084.1	1613.4	1338.5	1212.8	1193.0
52.5°	13356.4	15260.9	14700.4	8624.0	3920.3	2339.3	1624.2	1266.7	1061.8	972.0	955.8
55°	15747.8	18148.2	16060.4	7930.5	3187.3	1791.3	1275.6	998.9	858.8	804.9	797.7
57.5°	18708.7	21887.0	17370.2	6762.7	2396.8	1367.3	982.8	824.7	758.2	725.9	724.1
60°	22616.5	25855.9	18507.5	5255.3	1715.8	1045.7	812.1	736.6	684.5	663.0	661.2
62.5°	27262.7	29460.0	19215.4	3579.0	1290.0	833.7	715.1	668.4	637.8	625.2	623.4
65°	32038.2	31738.2	18877.6	2344.7	979.2	707.9	641.4	616.3	589.3	576.7	576.7
67.5°	34859.0	31256.7	16285.0	1627.8	776.2	621.6	578.5	555.2	510.3	499.5	499.5
70°	30875.8	25327.7	10674.0	1191.2	628.8	544.4	503.1	470.7	452.8	442.0	440.2
72.5°	20421.0	16480.9	5675.7	826.5	524.6	463.5	425.8	413.2	391.7	380.9	379.1
75°	10163.8	8656.4	2908.8	596.5	436.6	371.9	355.7	350.4	332.4	318.0	314.4
77.5°	4236.5	3853.9	1356.5	433.0	332.4	300.0	285.7	285.7	265.9	249.7	242.6
80°	1597.2	1423.0	641.4	296.5	246.1	222.8	213.8	206.6	190.4	170.7	159.9
82.5°	2136.2	1396.0	314.4	185.1	161.7	143.7	131.2	125.8	116.8	107.8	100.6
85°	1383.4	991.8	141.9	95.2	80.9	61.1	53.9	50.3	44.9	39.5	35.9
87.5°	282.1	332.4	43.1	18.0	10.8	5.4	5.4	1.8	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)