

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: P641035

Luminaire Tested: GWS-SA5F-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

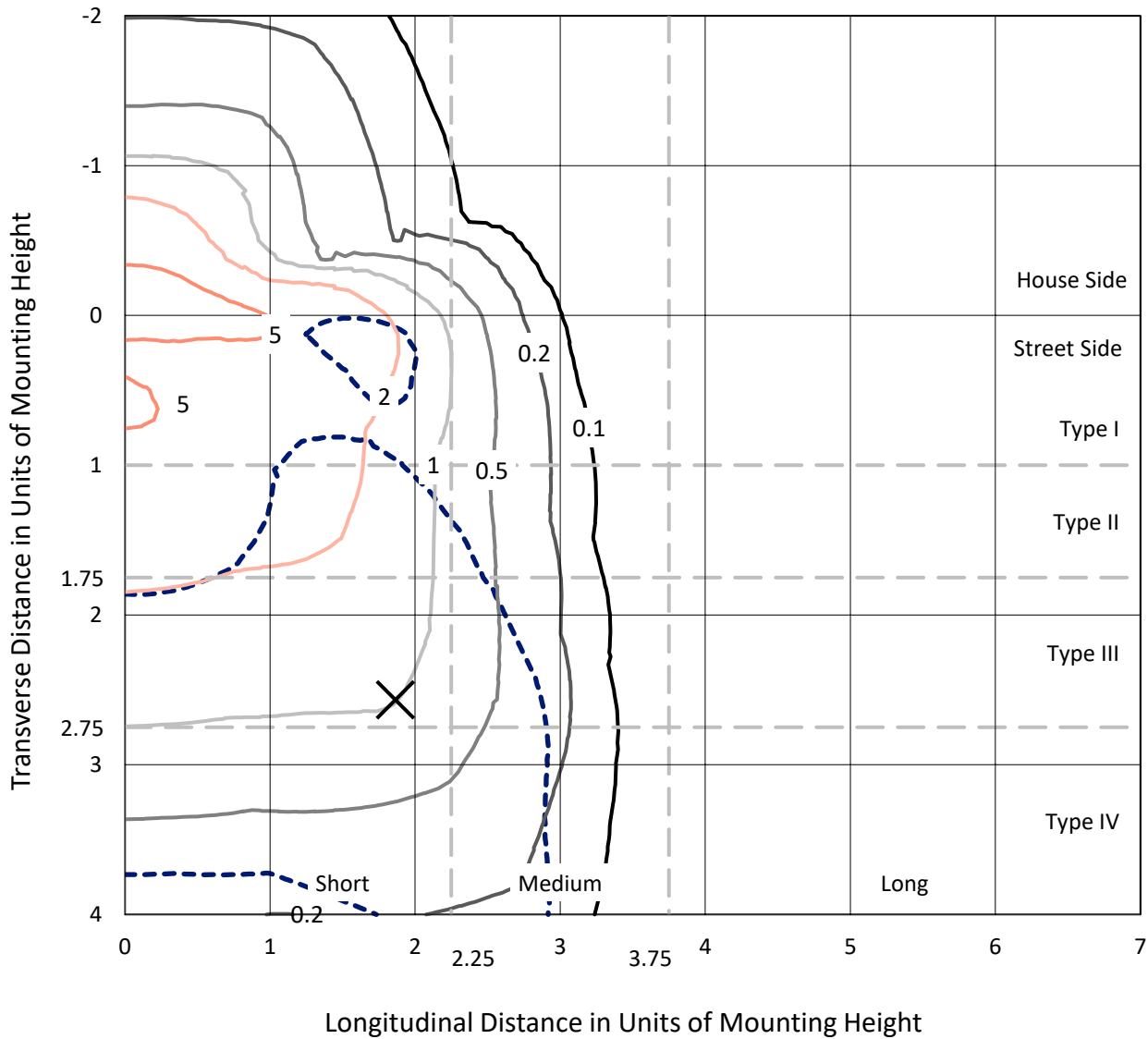
Lumens per Lamp: N/A  
Luminaire Lumens: 29696.3 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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: P641035  
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### Iso-Footcandle Lines of Horizontal Illumination

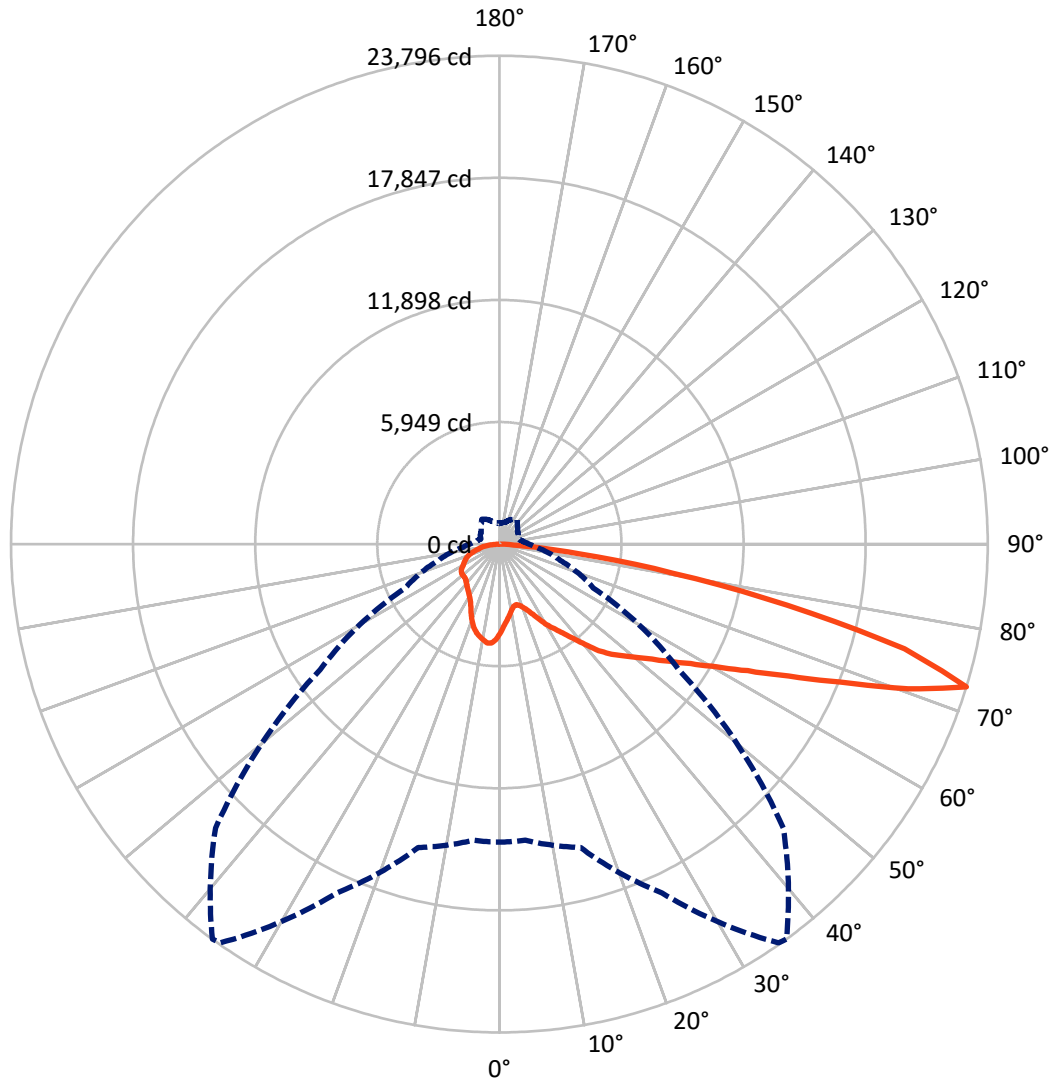
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P641035  
CATALOG NUMBER: GWS-SA5F-722-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P641035

CATALOG NUMBER: GWS-SA5F-722-U-T4FT-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6846.3	0.0	6846.3
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	22850.0	0.0	22850.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	29696.3	0.0	29696.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.2	1.4
10°-20°	1146.2	3.9
20°-30°	1898.2	6.4
30°-40°	2842.8	9.6
40°-50°	4147.4	14.0
50°-60°	5903.0	19.9
60°-70°	7457.9	25.1
70°-80°	5314.4	17.9
80°-90°	580.1	2.0
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°	29696.3	100.0
0°-180°	29696.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641035

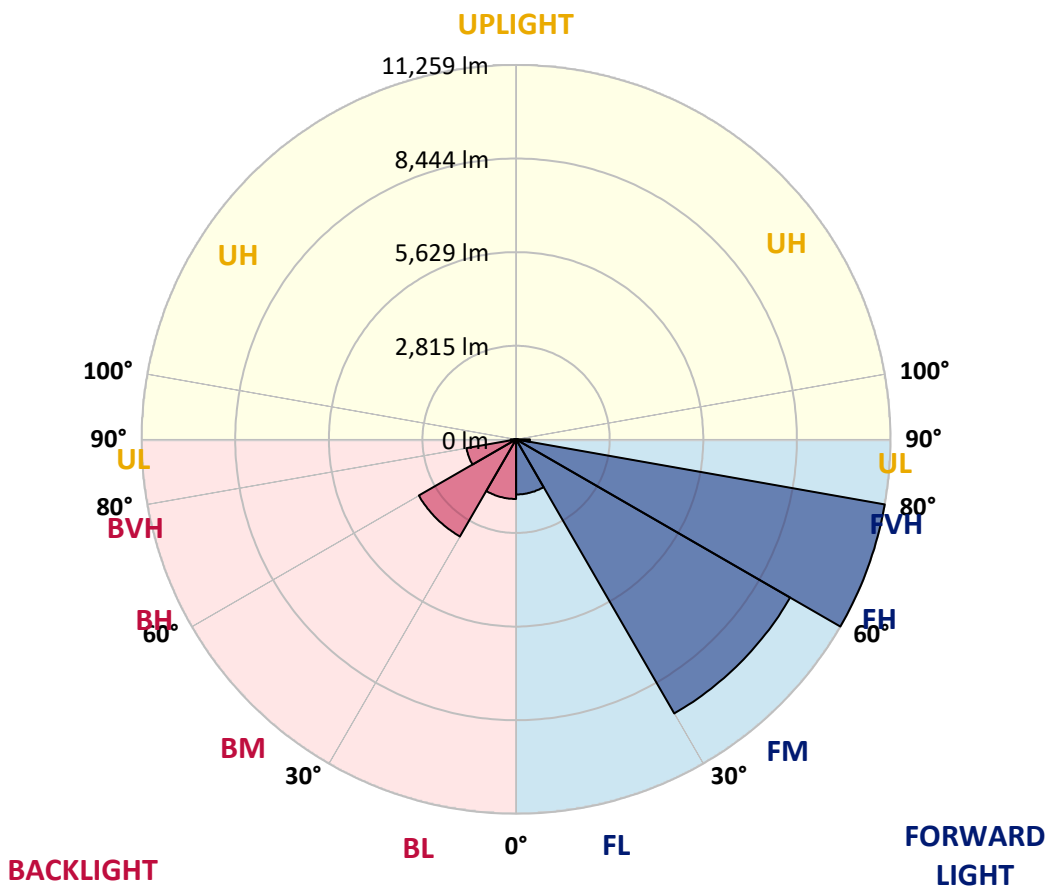
CATALOG NUMBER: GWS-SA5F-722-U-T4FT-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.9	5.6			
FM (30°-60°)	9516.9	32.0			
FH (60°-80°)	11258.8	37.9			G4/12000
FVH (80°-90°)	416.4	1.4			G3/500
BL (0°-30°)	1792.8	6.0	B3/2500		
BM (30°-60°)	3376.2	11.4	B3/5000		
BH (60°-80°)	1513.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	163.7	0.6			G2/225
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





REPORT NUMBER: P641035

CATALOG NUMBER: GWS-SA5F-722-U-T4FT-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2
2.5°	3964.9	3958.3	3945.1	3984.7	4024.4	4020.0	4075.1	4128.0	4185.3	4244.8	4324.1
5°	3647.5	3643.1	3632.1	3691.6	3751.1	3748.9	3839.3	3925.2	4042.0	4169.9	4328.6
7.5°	3330.2	3319.1	3334.6	3409.5	3493.3	3502.1	3625.5	3766.5	3936.3	4128.0	4352.8
10°	3050.3	3048.1	3054.7	3138.4	3264.0	3272.9	3431.5	3627.7	3852.5	4108.2	4407.9
12.5°	2977.5	2973.1	2955.5	2997.4	3092.1	3105.4	3279.5	3519.7	3795.2	4119.2	4482.8
15°	3096.5	3085.5	3023.8	3004.0	3050.3	3061.3	3208.9	3455.8	3762.1	4139.0	4577.6
17.5°	3301.5	3294.9	3178.1	3096.5	3127.4	3136.2	3246.4	3444.8	3753.3	4178.7	4694.4
20°	3601.3	3572.6	3389.7	3266.3	3266.3	3279.5	3345.6	3493.3	3764.3	4227.2	4826.6
22.5°	3998.0	3940.7	3682.8	3515.3	3471.2	3488.9	3517.5	3614.5	3810.6	4308.7	4991.9
25°	4443.2	4390.3	4083.9	3848.1	3786.4	3793.0	3768.8	3786.4	3912.0	4421.1	5196.9
27.5°	4917.0	4881.7	4555.6	4255.8	4158.9	4158.9	4072.9	4031.0	4053.1	4548.9	5426.1
30°	5340.2	5291.7	5016.2	4687.8	4560.0	4560.0	4396.9	4306.5	4253.6	4705.4	5732.5
32.5°	5562.8	5534.1	5351.2	5099.9	4943.5	4919.2	4778.2	4672.4	4548.9	4936.8	6146.8
35°	5853.7	5847.1	5736.9	5540.7	5342.4	5307.1	5210.1	5126.4	4912.6	5225.6	6697.8
37.5°	6219.5	6208.5	6190.9	6074.1	5836.1	5829.4	5743.5	5642.1	5364.4	5642.1	7365.6
40°	6629.5	6609.6	6587.6	6585.4	6442.1	6417.9	6411.3	6296.7	5908.8	6144.6	8062.0
42.5°	7193.7	7125.4	6918.2	7010.8	7116.5	7094.5	7178.3	7006.4	6587.6	6741.9	8721.0
45°	7887.9	7720.4	7310.5	7336.9	7603.6	7647.7	7938.6	7896.7	7334.7	7431.7	9415.3
47.5°	8304.5	8159.0	7777.7	7755.7	8088.5	8143.6	8776.1	8855.5	8139.2	8262.6	10272.6
50°	8646.1	8544.7	8231.7	8262.6	8615.2	8670.3	9607.0	9776.7	8897.3	9113.3	11268.8
52.5°	9058.2	8912.8	8670.3	8815.8	9247.8	9313.9	10530.5	10713.4	9580.6	10047.8	12300.2
55°	9289.6	9230.1	9234.5	9457.1	9999.3	10089.7	11498.0	11467.1	10206.5	10847.8	13076.0
57.5°	9823.0	9801.0	10003.7	10087.5	10876.5	10993.3	12465.5	12201.1	10775.1	11467.1	13448.5
60°	10764.1	10709.0	10885.3	11013.1	11960.8	12126.1	13545.5	12919.5	11160.8	11927.8	13322.9
62.5°	12086.5	12018.1	12024.7	12227.5	13413.2	13587.3	14746.6	13519.0	11279.8	11998.3	12527.2
65°	13730.6	13631.4	13519.0	13794.5	15341.7	15487.1	16053.6	13955.4	10995.5	11319.5	10865.5
67.5°	15465.1	15383.6	15251.3	15828.8	17838.8	17926.9	17519.2	13917.9	10094.1	9503.4	7621.3
70°	15566.5	15586.3	16212.2	18301.6	21098.4	21120.4	18905.5	13164.2	8174.4	6160.0	3797.4
72.5°	14521.8	14488.8	15304.2	18753.4	23721.1	23796.0	19560.0	10664.9	5051.5	3072.3	1780.8
75°	11795.5	11852.8	12710.2	16408.4	20331.4	20397.5	15945.6	6287.9	2400.1	1503.1	1139.4
77.5°	5077.9	5397.5	7087.9	11559.7	14561.5	14356.5	8218.5	2547.8	1280.5	1071.1	872.8
80°	1465.6	1591.3	2525.7	5496.6	8725.4	8571.2	3253.0	954.3	892.6	804.4	625.9
82.5°	473.8	524.5	925.7	2188.5	3909.8	3905.4	1234.2	564.2	584.0	546.6	403.3
85°	132.2	152.1	284.3	663.4	1210.0	1185.7	357.0	266.7	310.8	315.2	200.6
87.5°	0.0	0.0	2.2	4.4	4.4	4.4	8.8	39.7	90.4	114.6	81.5
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°	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2	4346.2
2.5°	4372.6	4366.0	4456.4	4526.9	4593.0	4637.1	4650.3	4659.1	4676.8	4685.6	4676.8
5°	4403.5	4436.5	4586.4	4696.6	4784.8	4837.7	4839.9	4835.5	4848.7	4837.7	4831.1
7.5°	4469.6	4533.5	4723.1	4839.9	4897.2	4899.4	4846.5	4784.8	4753.9	4727.5	4718.7
10°	4557.8	4652.5	4859.7	4936.8	4919.2	4837.7	4720.9	4623.9	4568.8	4529.1	4520.3
12.5°	4679.0	4784.8	4980.9	4978.7	4868.5	4723.1	4586.4	4469.6	4390.3	4344.0	4328.6
15°	4793.6	4928.0	5069.1	4965.5	4791.4	4615.1	4438.8	4282.3	4176.5	4103.8	4090.5
17.5°	4934.6	5077.9	5133.0	4923.6	4694.4	4467.4	4231.6	4026.6	3883.4	3797.4	3790.8
20°	5097.7	5225.6	5163.9	4850.9	4568.8	4271.3	3951.7	3722.5	3568.2	3484.4	3491.1
22.5°	5287.3	5379.8	5172.7	4751.7	4394.7	3993.6	3636.5	3416.1	3312.5	3268.5	3270.7
25°	5490.0	5549.5	5157.2	4617.3	4128.0	3654.1	3312.5	3211.2	3202.3	3191.3	3195.7
27.5°	5730.3	5717.0	5111.0	4427.7	3768.8	3259.6	3085.5	3112.0	3147.2	3142.8	3147.2
30°	6052.0	5926.4	5051.5	4165.5	3341.2	2929.0	2951.1	3026.0	3072.3	3076.7	3089.9
32.5°	6420.1	6157.8	4956.7	3808.4	2933.5	2743.9	2825.5	2915.8	2970.9	2981.9	2999.6
35°	6858.7	6422.3	4789.2	3363.2	2640.3	2633.7	2708.7	2770.4	2829.9	2834.3	2834.3
37.5°	7363.4	6686.8	4522.5	2871.7	2459.6	2538.9	2609.5	2622.7	2638.1	2624.9	2631.5
40°	7826.2	6942.4	4143.4	2424.3	2311.9	2455.2	2514.7	2470.6	2422.1	2389.1	2395.7
42.5°	8214.1	7116.5	3640.9	2111.4	2162.1	2380.3	2426.5	2336.2	2241.4	2179.7	2188.5
45°	8650.5	7277.4	3050.3	1899.8	2034.2	2327.4	2358.2	2241.4	2120.2	2027.6	2014.4
47.5°	9252.2	7605.8	2525.7	1752.1	1943.9	2298.7	2349.4	2190.7	2032.0	1893.2	1877.8
50°	9994.9	8070.9	2087.1	1655.2	1902.0	2283.3	2347.2	2135.6	1946.1	1783.0	1772.0
52.5°	10806.0	8524.9	1763.2	1580.2	1860.1	2237.0	2336.2	2073.9	1855.7	1679.4	1666.2
55°	11345.9	8703.4	1545.0	1509.7	1791.8	2164.3	2292.1	2014.4	1719.1	1558.2	1538.4
57.5°	11504.6	8474.2	1392.9	1445.8	1703.7	2062.9	2208.4	1888.8	1635.3	1507.5	1492.1
60°	11231.3	7896.7	1298.1	1392.9	1606.7	1932.9	2062.9	1816.1	1569.2	1454.6	1443.6
62.5°	10459.9	7006.4	1225.4	1337.8	1507.5	1796.2	1970.3	1727.9	1496.5	1406.1	1390.7
65°	8908.4	5745.7	1165.9	1280.5	1412.7	1666.2	1868.9	1639.7	1417.1	1348.8	1331.2
67.5°	6230.6	4035.4	1102.0	1212.2	1318.0	1540.6	1763.2	1558.2	1335.6	1284.9	1267.3
70°	3045.9	2140.0	1024.8	1132.8	1216.6	1412.7	1657.4	1459.0	1227.6	1198.9	1174.7
72.5°	1450.2	1196.7	934.5	1024.8	1077.7	1243.0	1481.1	1315.8	1099.8	1038.1	996.2
75°	971.9	850.7	815.5	897.0	910.2	1042.5	1269.5	1135.0	969.7	899.2	863.9
77.5°	736.1	650.2	685.4	758.2	731.7	857.3	1044.7	1011.6	875.0	811.1	793.4
80°	517.9	473.8	544.4	588.5	568.6	729.5	941.1	866.2	720.7	650.2	636.9
82.5°	326.2	317.4	401.1	407.7	414.3	577.4	773.6	681.0	559.8	460.6	427.6
85°	163.1	180.7	240.2	240.2	238.0	297.5	440.8	383.5	301.9	240.2	233.6
87.5°	55.1	77.1	103.6	83.8	63.9	50.7	57.3	70.5	74.9	72.7	72.7
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)