

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: P641296

Luminaire Tested: GWS-SA5F-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42359.7 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

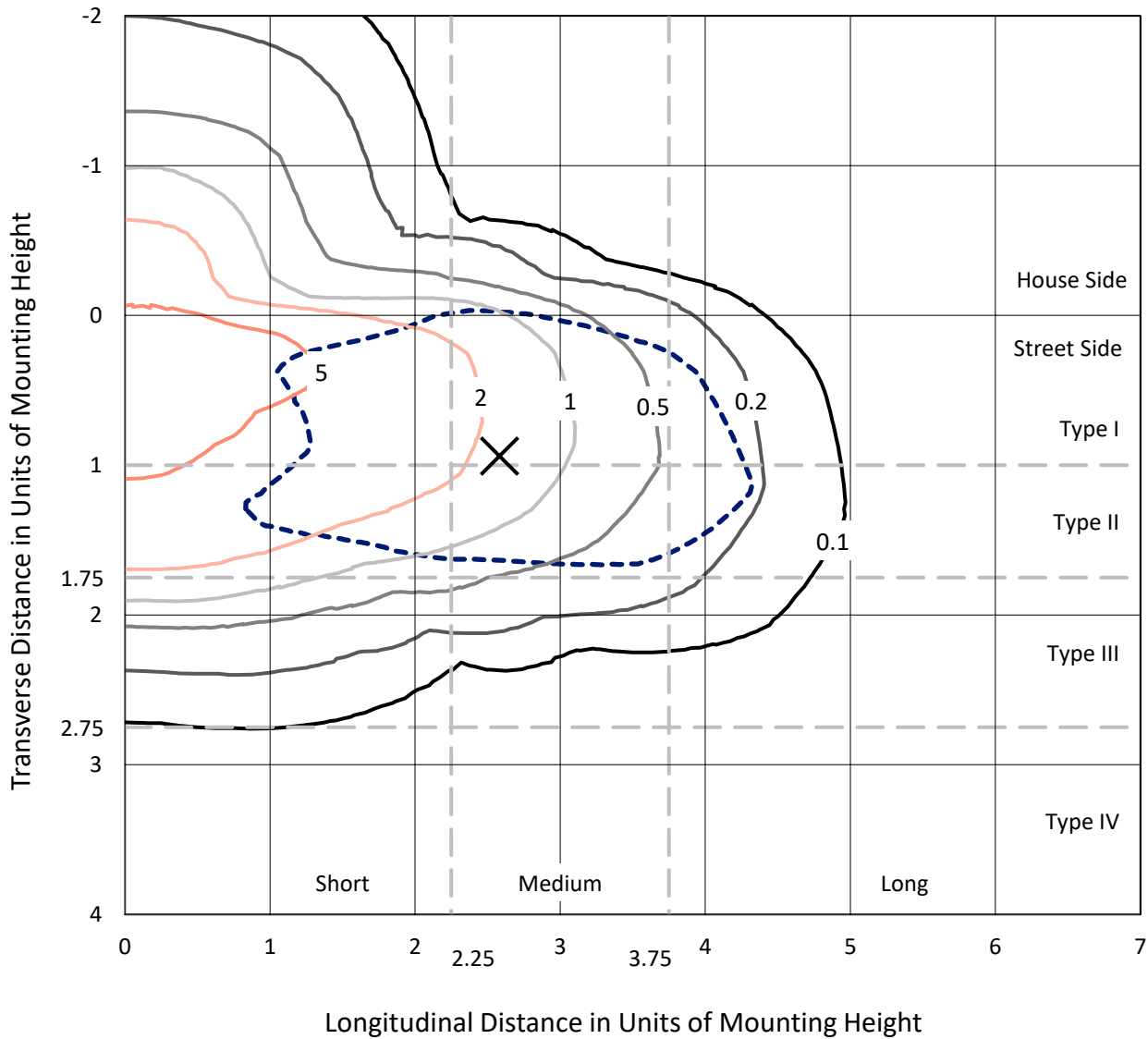
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

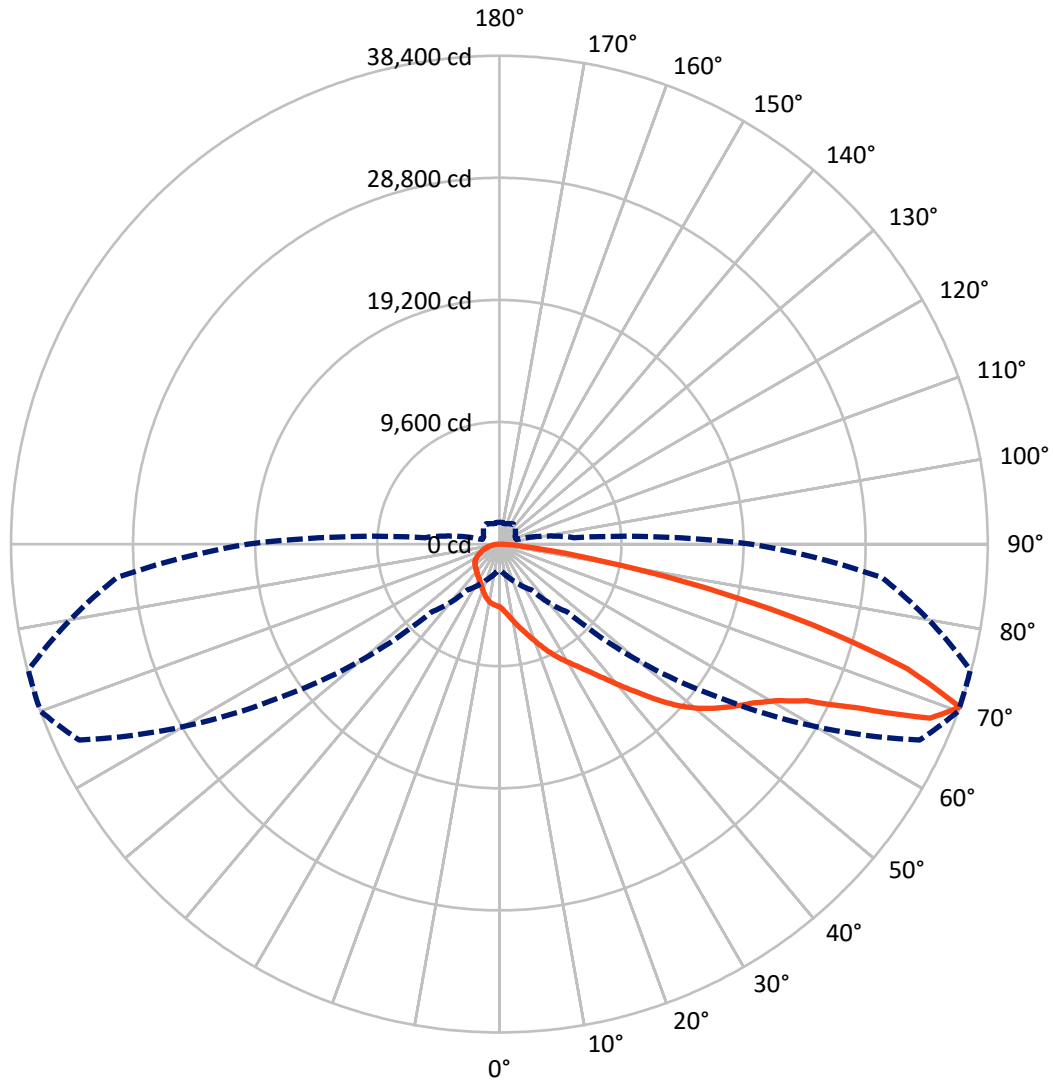
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7591.0	0.0	7591.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	34768.7	0.0	34768.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	42359.7	0.0	42359.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.1	1.2
10°-20°	1633.3	3.9
20°-30°	2893.5	6.8
30°-40°	4354.8	10.3
40°-50°	6588.2	15.6
50°-60°	9438.0	22.3
60°-70°	10432.7	24.6
70°-80°	5887.4	13.9
80°-90°	629.7	1.5
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°	42359.7	100.0
0°-180°	42359.7	100.0

Coefficient of Utilization



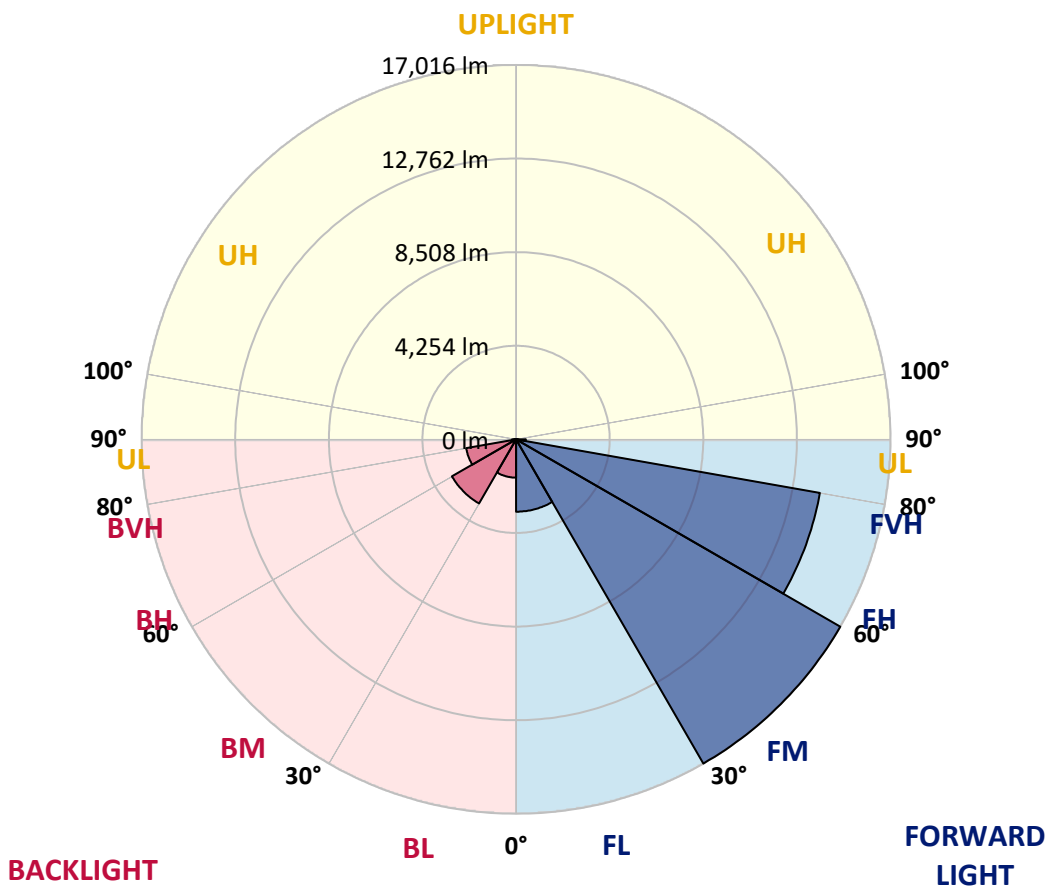
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.4	7.8			
FM (30°-60°)	17015.9	40.2			
FH (60°-80°)	14019.3	33.1			G5
FVH (80°-90°)	445.2	1.1			G3/500
BL (0°-30°)	1740.5	4.1	B3/2500		
BM (30°-60°)	3365.1	7.9	B3/5000		
BH (60°-80°)	2300.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	184.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0
2.5°	5472.6	5463.4	5469.5	5463.4	5429.7	5347.1	5279.8	5194.1	5135.9	5102.2	5022.7
5°	6115.3	6106.2	6084.7	6054.1	5992.9	5879.7	5711.3	5524.6	5411.4	5325.7	5157.3
7.5°	6577.5	6577.5	6574.4	6537.7	6494.9	6375.5	6176.6	5931.7	5766.4	5619.5	5344.0
10°	6813.2	6828.5	6849.9	6901.9	6892.8	6828.5	6641.8	6378.6	6170.4	5999.0	5588.9
12.5°	6941.7	6950.9	6987.6	7094.8	7205.0	7220.3	7110.1	6834.6	6608.1	6378.6	5861.3
15°	7107.0	7110.1	7159.0	7287.6	7449.8	7612.0	7584.5	7309.0	7076.4	6822.4	6164.3
17.5°	7235.6	7257.0	7345.8	7495.7	7697.7	7921.2	8055.8	7884.4	7596.7	7306.0	6494.9
20°	7281.5	7296.8	7413.1	7642.6	7918.1	8233.4	8533.3	8487.4	8196.6	7853.8	6868.3
22.5°	7446.8	7446.8	7532.5	7725.3	8049.7	8508.8	8995.5	9114.9	8857.8	8456.8	7269.2
25°	7811.0	7798.7	7838.5	7918.1	8163.0	8729.2	9451.5	9809.6	9521.9	9072.0	7670.2
27.5°	8309.9	8303.8	8300.7	8312.9	8395.6	8922.0	9837.2	10458.5	10170.8	9662.7	8028.3
30°	8851.6	8833.3	8873.1	8836.3	8818.0	9151.6	10164.7	11040.1	10816.6	10247.3	8325.2
32.5°	9589.3	9555.6	9546.4	9427.0	9353.6	9509.7	10427.9	11701.2	11523.6	10877.8	8658.8
35°	10562.6	10532.0	10375.9	10186.1	9968.8	10042.3	10755.4	12347.0	12359.2	11667.5	9096.5
37.5°	11545.1	11551.2	11428.8	10981.9	10758.5	10715.6	11254.3	13133.6	13396.8	12610.2	9662.7
40°	12362.3	12399.0	12399.0	11927.7	11594.0	11554.3	11955.2	14067.1	14590.5	13767.2	10378.9
42.5°	12983.6	13017.3	13124.4	12784.7	12432.7	12570.4	12806.1	15003.7	15943.3	15196.5	11284.9
45°	13666.2	13693.7	13751.9	13556.0	13350.9	13718.2	13770.2	16123.9	17492.1	16800.3	12337.8
47.5°	14572.1	14547.6	14553.8	14409.9	14250.8	14844.5	14832.3	17066.6	18988.8	18557.2	13479.5
50°	15698.5	15744.4	15701.5	15416.9	15230.2	15771.9	15842.3	18110.3	20304.9	20295.7	14630.3
52.5°	16782.0	16800.3	17026.8	17039.1	16656.5	16543.2	16726.9	19163.2	21415.9	21887.3	15735.2
55°	16837.1	16907.5	17587.0	18076.7	18694.9	17785.9	17620.6	20167.1	22490.2	23445.2	16883.0
57.5°	15664.8	15778.1	16932.0	17987.9	19708.0	19919.2	19151.0	21464.9	23564.6	24978.6	18211.3
60°	13161.1	13396.8	14963.9	16580.0	19252.0	21452.7	22282.1	23227.9	24975.6	26545.7	19824.3
62.5°	8404.8	8496.6	10694.2	13399.9	17198.2	21302.7	25691.8	26334.5	27124.2	28587.2	22309.7
65°	4208.5	4502.3	5790.9	7997.7	12402.1	18771.5	27415.0	32024.4	31057.2	32082.6	26337.6
67.5°	2855.7	2950.5	3602.5	4805.3	7272.3	13298.9	26346.8	36817.5	36532.9	36701.2	30631.8
70°	2105.8	2167.0	2681.2	3403.5	4398.3	7550.8	20975.2	36456.4	38399.9	38338.7	30181.9
72.5°	1536.5	1567.1	1955.8	2598.6	3259.7	3905.5	12809.2	29450.3	33521.1	35287.2	26395.7
75°	1117.2	1153.9	1359.0	1943.6	2534.3	2436.3	6323.5	21272.1	25563.2	28960.6	21504.7
77.5°	832.5	878.4	973.3	1218.2	1775.2	1744.6	2733.2	13813.1	16534.1	18915.3	13063.2
80°	599.9	609.1	664.2	780.5	1126.3	1022.3	1300.8	7201.9	8257.8	9047.5	5120.6
82.5°	364.2	373.4	443.8	480.5	697.8	642.8	676.4	2332.3	3342.3	3547.4	1913.0
85°	107.1	113.2	202.0	220.4	290.8	275.5	272.4	948.8	1132.5	1447.7	752.9
87.5°	0.0	0.0	0.0	0.0	3.1	18.4	33.7	168.3	254.0	352.0	183.6
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°	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0	4940.0
2.5°	4992.1	4921.7	4884.9	4820.6	4774.7	4728.8	4682.9	4640.1	4621.7	4594.2	4600.3
5°	5080.8	4970.6	4860.4	4734.9	4627.8	4539.1	4459.5	4389.1	4358.5	4330.9	4343.2
7.5°	5215.5	5050.2	4839.0	4609.5	4441.1	4318.7	4236.1	4187.1	4171.8	4150.3	4150.3
10°	5386.9	5139.0	4768.6	4441.1	4239.1	4141.2	4104.4	4101.4	4116.7	4119.7	4113.6
12.5°	5576.7	5224.7	4664.6	4242.2	4070.8	4040.2	4067.7	4119.7	4171.8	4199.3	4193.2
15°	5772.5	5279.8	4487.0	4052.4	3948.3	3988.1	4076.9	4181.0	4282.0	4334.0	4330.9
17.5°	5956.2	5292.0	4257.5	3868.8	3841.2	3942.2	4095.3	4257.5	4395.2	4468.7	4471.7
20°	6161.2	5270.6	4021.8	3703.5	3734.1	3899.4	4101.4	4297.3	4459.5	4532.9	4551.3
22.5°	6348.0	5197.1	3792.2	3547.4	3642.3	3847.3	4052.4	4236.1	4379.9	4450.3	4474.8
25°	6516.3	5056.3	3541.3	3415.8	3571.9	3773.9	3930.0	4058.5	4159.5	4202.4	4236.1
27.5°	6608.1	4845.1	3351.5	3311.7	3504.5	3669.8	3755.5	3795.3	3829.0	3816.7	3841.2
30°	6626.5	4581.9	3186.2	3229.1	3403.5	3526.0	3544.3	3504.5	3446.4	3351.5	3372.9
32.5°	6608.1	4278.9	3048.5	3140.3	3290.3	3363.7	3339.3	3235.2	3094.4	2947.5	2956.7
35°	6614.2	3972.8	2935.2	3042.4	3158.7	3198.5	3137.2	2993.4	2843.4	2708.7	2702.6
37.5°	6681.6	3715.7	2840.4	2947.5	3030.1	3036.2	2968.9	2818.9	2742.4	2641.4	2629.2
40°	6868.3	3526.0	2754.7	2852.6	2904.6	2901.6	2825.1	2717.9	2770.0	2736.3	2727.1
42.5°	7174.4	3409.7	2684.3	2751.6	2788.3	2794.4	2733.2	2665.9	2779.1	2736.3	2721.0
45°	7667.1	3403.5	2635.3	2650.6	2708.7	2751.6	2708.7	2632.2	2675.1	2466.9	2427.2
47.5°	8251.7	3507.6	2598.6	2561.8	2662.8	2739.4	2672.0	2549.6	2460.8	2271.1	2243.5
50°	8955.7	3718.8	2564.9	2466.9	2595.5	2693.4	2626.1	2457.8	2323.1	2222.1	2206.8
52.5°	9791.3	3997.3	2522.0	2359.8	2494.5	2669.0	2626.1	2448.6	2271.1	2179.2	2163.9
55°	10666.6	4318.7	2473.1	2231.3	2381.2	2675.1	2647.5	2384.3	2231.3	2182.3	2170.1
57.5°	11753.2	4704.3	2384.3	2081.3	2280.2	2620.0	2561.8	2347.6	2203.7	2163.9	2151.7
60°	13164.2	5276.7	2216.0	1928.3	2163.9	2522.0	2485.3	2286.4	2130.3	2096.6	2087.4
62.5°	15398.5	6246.9	2010.9	1781.3	2026.2	2317.0	2372.1	2170.1	2038.4	2035.4	2032.3
65°	19040.8	7413.1	1769.1	1649.7	1882.3	2148.6	2222.1	2050.7	1943.6	1977.2	1974.2
67.5°	21593.5	7514.1	1570.2	1512.0	1714.0	1965.0	2072.1	1928.3	1812.0	1876.2	1873.2
70°	19778.4	5861.3	1398.8	1368.1	1533.4	1766.0	1909.9	1775.2	1658.9	1720.1	1707.9
72.5°	16681.0	4493.2	1236.5	1218.2	1349.8	1557.9	1701.8	1622.2	1499.8	1499.8	1472.2
75°	13406.0	3706.5	1065.1	1056.0	1144.7	1346.7	1508.9	1374.3	1261.0	1254.9	1236.5
77.5°	7688.6	2430.2	893.7	887.6	915.2	1126.3	1172.3	1144.7	1059.0	1019.2	1007.0
80°	3063.8	1264.1	704.0	664.2	691.7	826.4	924.3	878.4	805.0	756.0	728.5
82.5°	1187.6	633.6	495.8	434.6	474.4	596.8	670.3	655.0	606.0	495.8	465.2
85°	483.6	309.1	296.9	251.0	275.5	321.4	385.7	333.6	275.5	195.9	186.7
87.5°	128.6	113.2	110.2	67.3	52.0	15.3	3.1	0.0	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)