

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: P643468

Luminaire Tested: GWS-SA6F-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33258.3 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

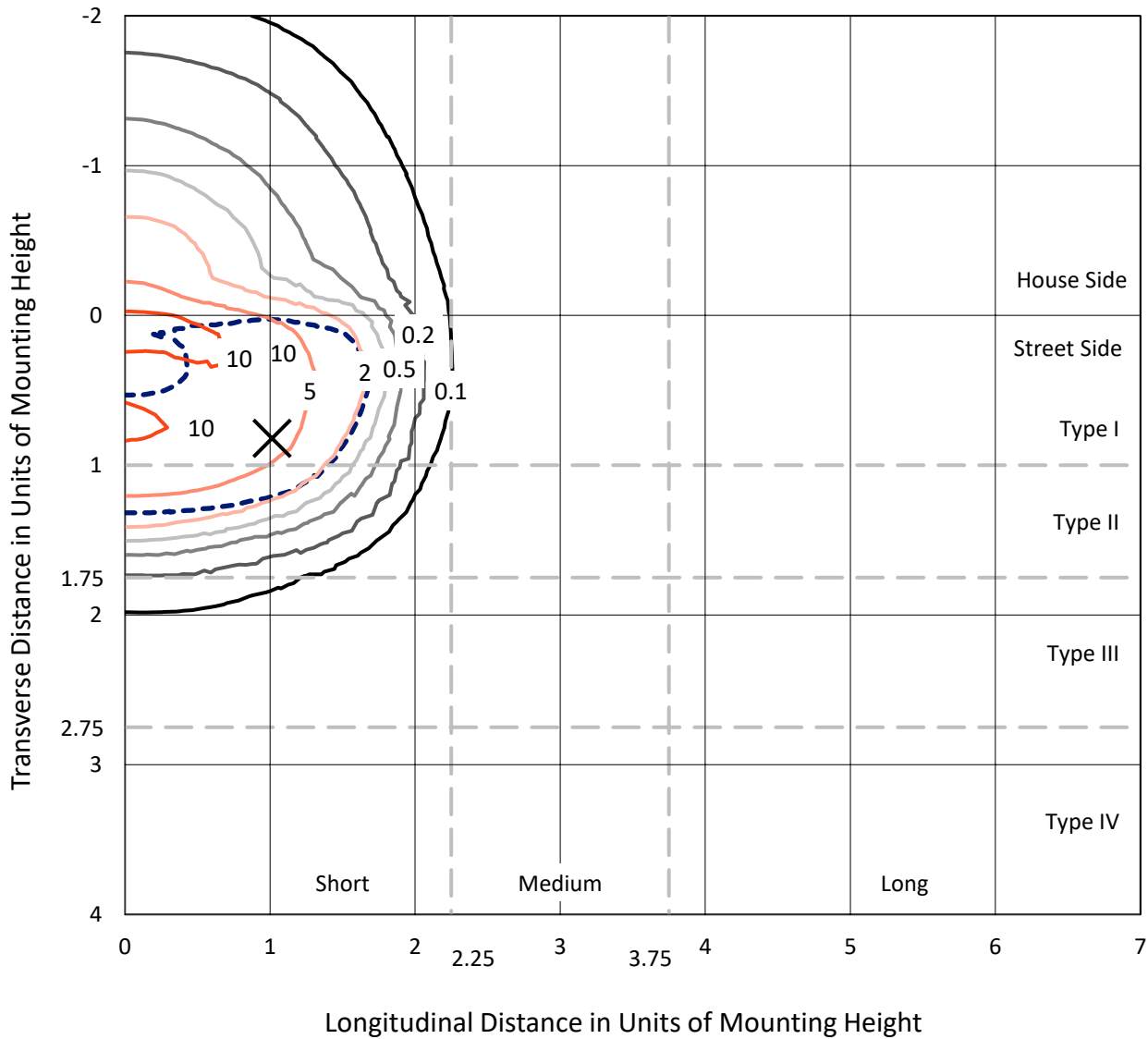
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

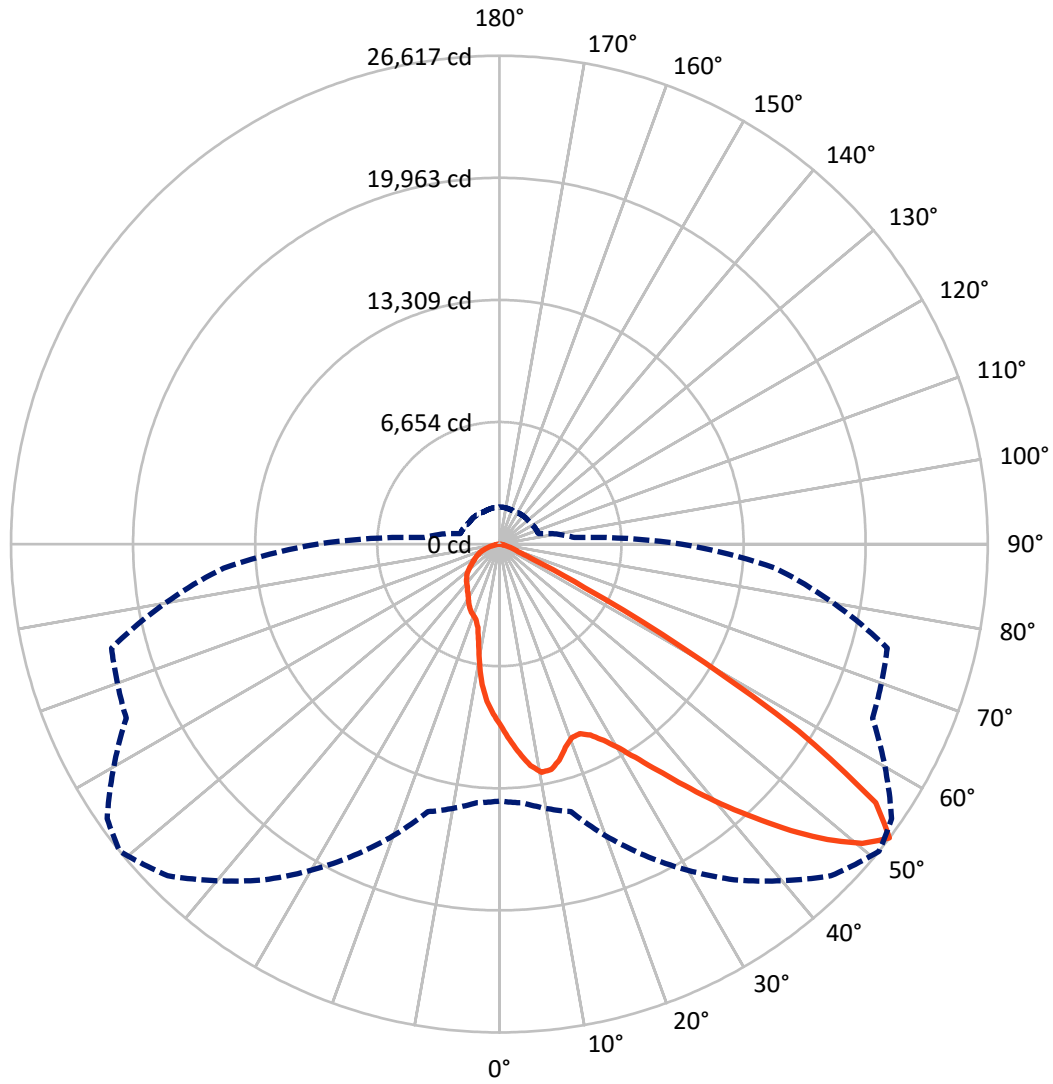
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6480.1	0.0	6480.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26778.2	0.0	26778.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	33258.3	0.0	33258.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.1	2.8
10°-20°	2401.1	7.2
20°-30°	3903.9	11.7
30°-40°	6186.9	18.6
40°-50°	9331.1	28.1
50°-60°	8072.1	24.3
60°-70°	1830.0	5.5
70°-80°	539.6	1.6
80°-90°	69.5	0.2
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°	33258.3	100.0
0°-180°	33258.3	100.0

Coefficient of Utilization



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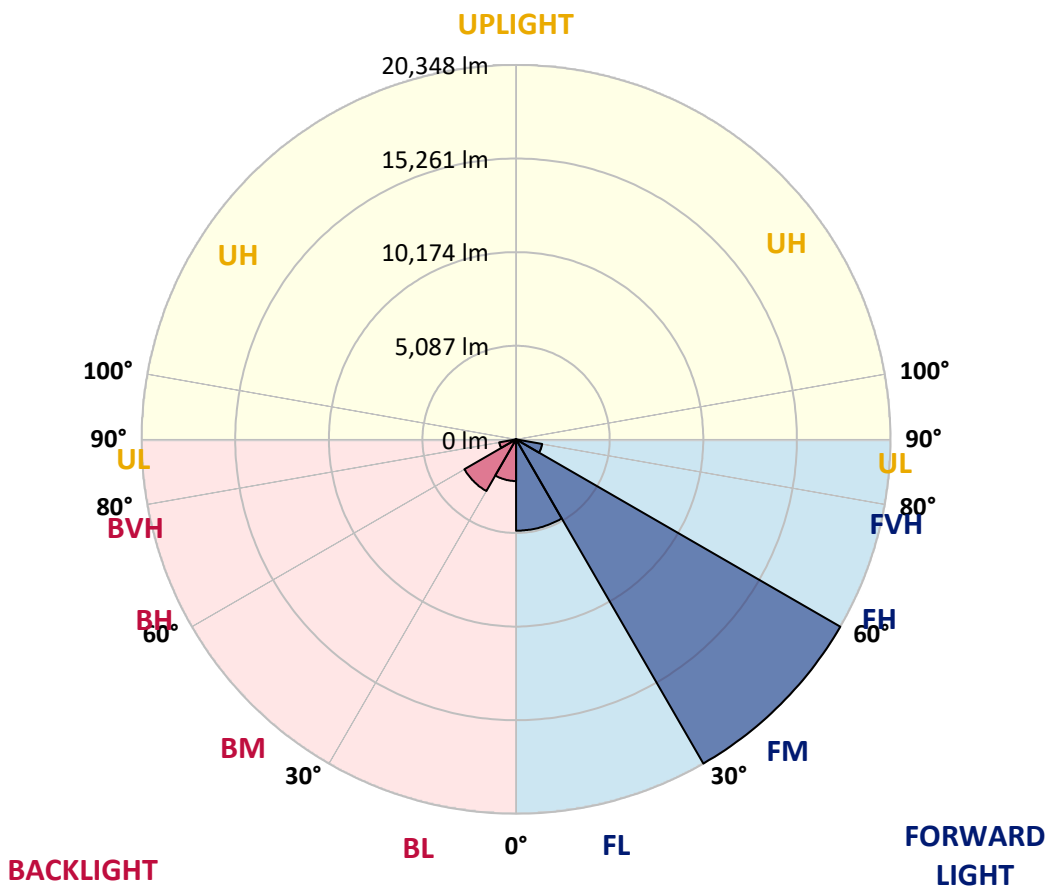
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4963.9	14.9			
FM (30°-60°)	20347.9	61.2			
FH (60°-80°)	1440.2	4.3			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	2265.2	6.8	B3/2500		
BM (30°-60°)	3242.2	9.7	B3/5000		
BH (60°-80°)	929.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7
2.5°	11035.4	11098.4	11001.2	10964.4	10904.0	10798.8	10677.9	10643.8	10383.6	10212.8	10020.9
5°	12144.4	12178.6	12099.7	12020.9	11871.1	11684.5	11450.6	11400.7	10927.6	10536.0	10128.7
7.5°	12391.5	12378.3	12446.6	12491.3	12472.9	12399.3	12191.7	12094.5	11529.4	10909.2	10307.4
10°	11413.8	11340.2	11592.5	11892.1	12252.2	12667.4	12643.8	12635.9	12144.4	11411.2	10536.0
12.5°	10118.2	10081.4	10286.4	10662.2	11342.9	12262.7	12607.0	12875.0	12698.9	11889.5	10791.0
15°	9377.0	9363.9	9503.2	9773.9	10315.3	11476.9	12212.7	12743.6	13174.6	12402.0	11061.6
17.5°	9243.0	9250.9	9298.2	9453.3	9842.2	10798.8	11650.3	12391.5	13545.2	12964.4	11400.7
20°	9634.6	9687.2	9605.7	9629.3	9839.6	10554.4	11266.6	12036.7	13781.7	13529.4	11766.0
22.5°	10504.5	10486.1	10307.4	10202.3	10204.9	10704.2	11224.6	11871.1	13936.8	14078.7	12097.1
25°	11490.0	11469.0	11256.1	11022.2	10875.0	11111.6	11526.8	12047.2	14076.1	14580.7	12362.6
27.5°	12654.3	12588.6	12352.0	12052.4	11726.6	11829.0	12110.3	12522.9	14291.6	15074.7	12538.6
30°	13781.7	13857.9	13518.9	13164.1	12819.8	12756.8	12919.7	13292.9	14730.5	15652.9	12748.9
32.5°	15277.1	15250.8	14875.0	14412.5	13921.0	13873.7	14002.5	14344.1	15518.9	16451.9	13069.5
35°	17087.9	17093.1	16559.6	15934.1	15235.1	15108.9	15324.4	15655.6	16693.6	17534.6	13576.7
37.5°	18969.6	18961.7	18496.5	17786.9	16832.9	16654.2	16901.3	17148.3	18162.8	19009.0	14365.2
40°	20288.9	20341.4	20123.3	19750.1	18846.1	18409.8	18627.9	18798.8	19760.6	20743.5	15403.3
42.5°	21037.9	21116.7	21164.0	21387.4	20911.7	20446.6	20367.7	20457.1	21187.7	22354.6	16378.3
45°	21198.2	21303.3	21647.6	22475.5	22659.4	22528.0	22270.5	22055.0	22252.1	23497.8	17016.9
47.5°	20491.2	20675.2	21411.1	22859.2	23934.0	24346.7	24060.2	23731.7	22867.0	23792.1	16951.2
50°	17689.7	17905.2	19563.5	22076.0	24115.4	25618.7	25644.9	25158.7	22793.5	22943.3	16126.0
52.5°	14005.1	14152.3	15101.0	18714.7	22336.2	25566.1	26617.3	26097.0	22438.7	21881.5	15093.1
55°	8370.5	8607.0	9492.7	12346.8	17400.6	22659.4	24898.6	25150.9	22265.2	20990.6	14388.8
57.5°	2825.2	2940.8	3787.1	5453.3	10254.8	16591.2	19237.6	20262.6	20212.7	19629.2	13014.3
60°	1345.6	1371.9	1542.7	2068.3	4105.1	8670.1	11387.5	12570.2	13647.7	13755.4	8097.2
62.5°	1025.0	1040.7	1127.5	1240.5	1650.4	3653.0	5219.4	6123.5	6541.3	5613.6	2948.7
65°	856.8	869.9	935.6	1006.6	1122.2	1582.1	2002.6	2310.1	2081.4	1621.5	1406.0
67.5°	714.8	725.4	775.3	851.5	930.3	1059.1	1111.7	1143.2	1198.4	1345.6	1293.0
70°	559.8	570.3	622.9	688.6	764.8	796.3	846.2	877.8	988.2	1177.4	1172.1
72.5°	431.0	444.1	473.1	515.1	578.2	609.7	664.9	701.7	764.8	917.2	980.3
75°	315.4	323.3	349.5	362.7	370.6	362.7	417.9	459.9	544.0	601.8	617.6
77.5°	128.8	144.5	139.3	139.3	165.6	199.7	228.6	254.9	312.7	346.9	349.5
80°	52.6	57.8	68.3	76.2	92.0	118.3	136.7	147.2	173.5	194.5	210.2
82.5°	31.5	34.2	39.4	42.0	52.6	68.3	78.8	86.7	107.8	128.8	136.7
85°	15.8	15.8	18.4	21.0	26.3	31.5	36.8	42.0	55.2	68.3	76.2
87.5°	2.6	2.6	2.6	5.3	7.9	10.5	13.1	15.8	18.4	21.0	26.3
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°	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7	9902.7
2.5°	9907.9	9766.0	9600.4	9469.0	9316.6	9203.6	9043.3	8943.4	8848.8	8769.9	8712.1
5°	9918.4	9679.3	9335.0	9030.1	8714.8	8415.2	8107.7	7858.0	7634.6	7448.0	7432.2
7.5°	9978.9	9634.6	9095.8	8562.3	7947.4	7353.4	6759.5	6275.9	5908.0	5716.1	5676.7
10°	10081.4	9629.3	8851.4	7999.9	6951.3	5994.7	5290.4	4922.4	4709.5	4633.3	4607.0
12.5°	10189.1	9616.2	8538.7	7206.2	5750.3	4911.9	4525.6	4480.9	4520.3	4525.6	4522.9
15°	10320.5	9608.3	8144.5	6275.9	4872.5	4409.9	4436.2	4530.8	4622.8	4643.8	4643.8
17.5°	10480.8	9589.9	7608.3	5366.6	4323.2	4312.7	4452.0	4578.1	4664.9	4680.6	4680.6
20°	10649.0	9542.6	6948.7	4625.4	4099.8	4252.3	4402.1	4499.3	4559.7	4580.8	4583.4
22.5°	10764.7	9416.5	6189.2	4076.2	3960.5	4136.6	4244.4	4344.2	4344.2	4291.7	4275.9
25°	10788.3	9145.8	5366.6	3700.4	3795.0	3957.9	4068.3	4010.5	3902.7	3860.7	3858.0
27.5°	10701.6	8751.6	4554.5	3432.3	3595.2	3758.2	3739.8	3655.7	3608.4	3566.3	3582.1
30°	10596.5	8278.5	3850.2	3211.5	3364.0	3524.3	3461.2	3432.3	3398.1	3350.8	3361.3
32.5°	10525.5	7750.2	3308.8	3040.7	3208.9	3235.2	3279.9	3277.2	3245.7	3156.3	3151.1
35°	10546.5	7216.7	2946.1	2901.4	3080.1	3069.6	3153.7	3137.9	2919.8	2796.3	2788.4
37.5°	10714.7	6704.3	2733.2	2791.0	2875.1	2940.8	3014.4	2825.2	2749.0	2670.1	2675.4
40°	11035.4	6228.6	2617.6	2730.6	2751.6	2848.9	2678.0	2675.4	2641.2	2570.3	2567.6
42.5°	11398.0	5826.5	2538.7	2701.7	2672.8	2691.2	2509.8	2530.9	2528.2	2483.5	2470.4
45°	11618.8	5455.9	2475.7	2593.9	2601.8	2417.8	2362.7	2386.3	2399.4	2375.8	2373.2
47.5°	11390.2	5030.2	2410.0	2428.4	2496.7	2294.3	2226.0	2228.6	2252.3	2254.9	2244.4
50°	10748.9	4554.5	2331.1	2286.4	2241.8	2165.5	2102.5	2089.3	2113.0	2136.6	2144.5
52.5°	9921.1	4099.8	2199.7	2131.4	2026.3	2026.3	1997.4	1955.3	1986.8	2018.4	2028.9
55°	9314.0	3763.4	2013.1	1936.9	1821.3	1860.7	1855.4	1818.6	1860.7	1884.3	1892.2
57.5°	8070.9	3024.9	1771.3	1747.7	1650.4	1697.7	1708.3	1661.0	1639.9	1645.2	1653.1
60°	4791.0	1952.7	1597.9	1595.3	1508.5	1563.7	1595.3	1547.9	1484.9	1492.8	1503.3
62.5°	2149.8	1492.8	1379.7	1369.2	1366.6	1437.6	1471.7	1427.1	1337.7	1345.6	1356.1
65°	1353.5	1290.4	1198.4	1198.4	1240.5	1300.9	1327.2	1290.4	1187.9	1174.8	1185.3
67.5°	1256.2	1201.0	1106.4	1088.0	1109.1	1159.0	1161.6	1090.7	1030.2	1019.7	1019.7
70°	1127.5	1085.4	993.4	956.6	948.7	946.1	938.2	919.8	880.4	869.9	875.2
72.5°	933.0	904.1	846.2	806.8	785.8	783.2	751.6	735.9	701.7	696.4	693.8
75°	617.6	625.5	625.5	620.2	601.8	593.9	559.8	544.0	504.6	488.8	486.2
77.5°	365.3	373.2	383.7	386.3	383.7	383.7	352.2	333.8	294.3	273.3	268.1
80°	223.4	228.6	233.9	241.8	231.3	223.4	194.5	176.1	157.7	144.5	141.9
82.5°	144.5	149.8	152.4	157.7	152.4	141.9	118.3	107.8	94.6	84.1	81.5
85°	81.5	84.1	89.4	89.4	81.5	73.6	60.4	52.6	44.7	39.4	39.4
87.5°	28.9	28.9	28.9	31.5	26.3	23.7	15.8	10.5	7.9	7.9	7.9
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)