

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: P643498

Luminaire Tested: GWS-SA6F-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 32264.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

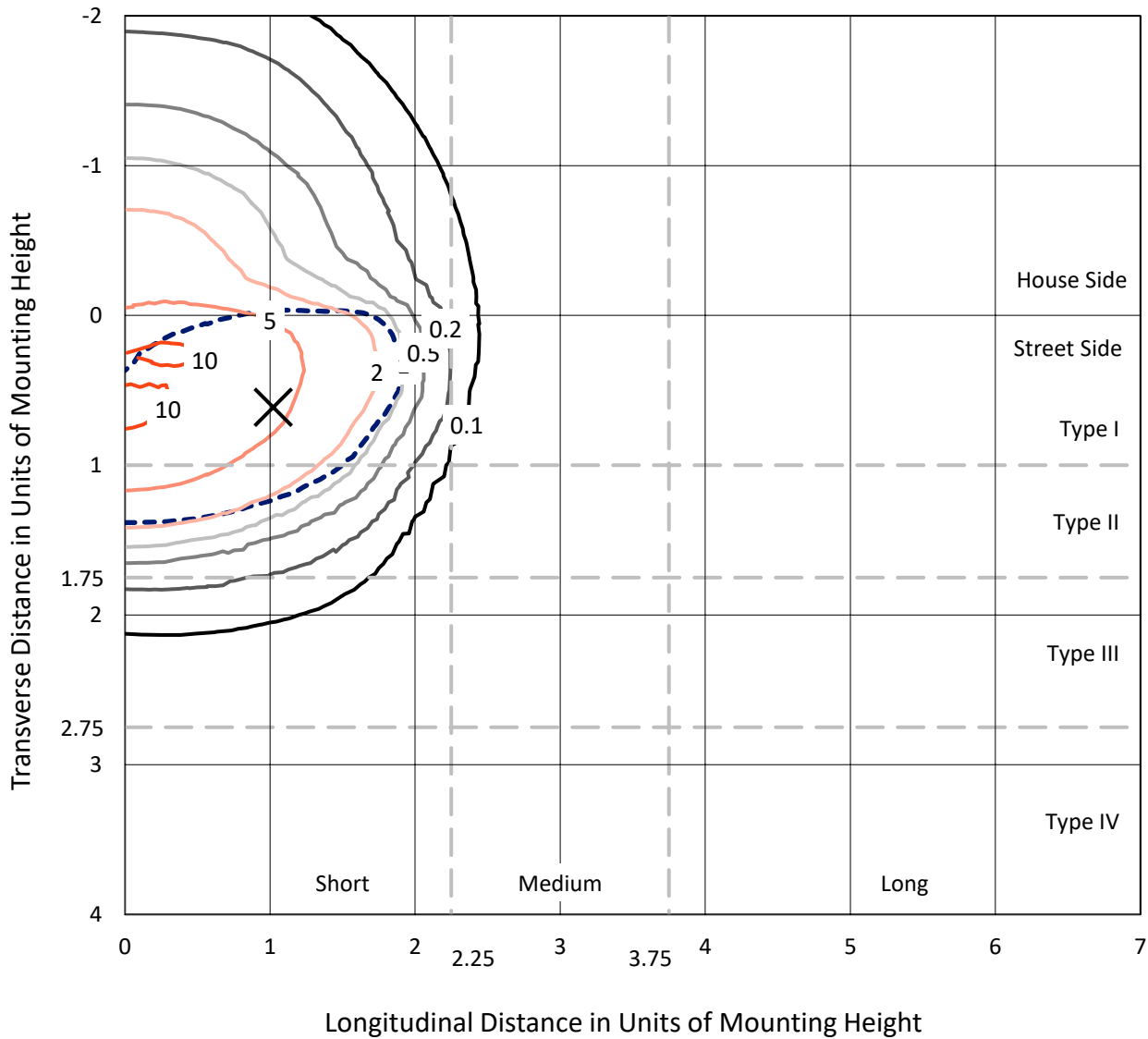
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

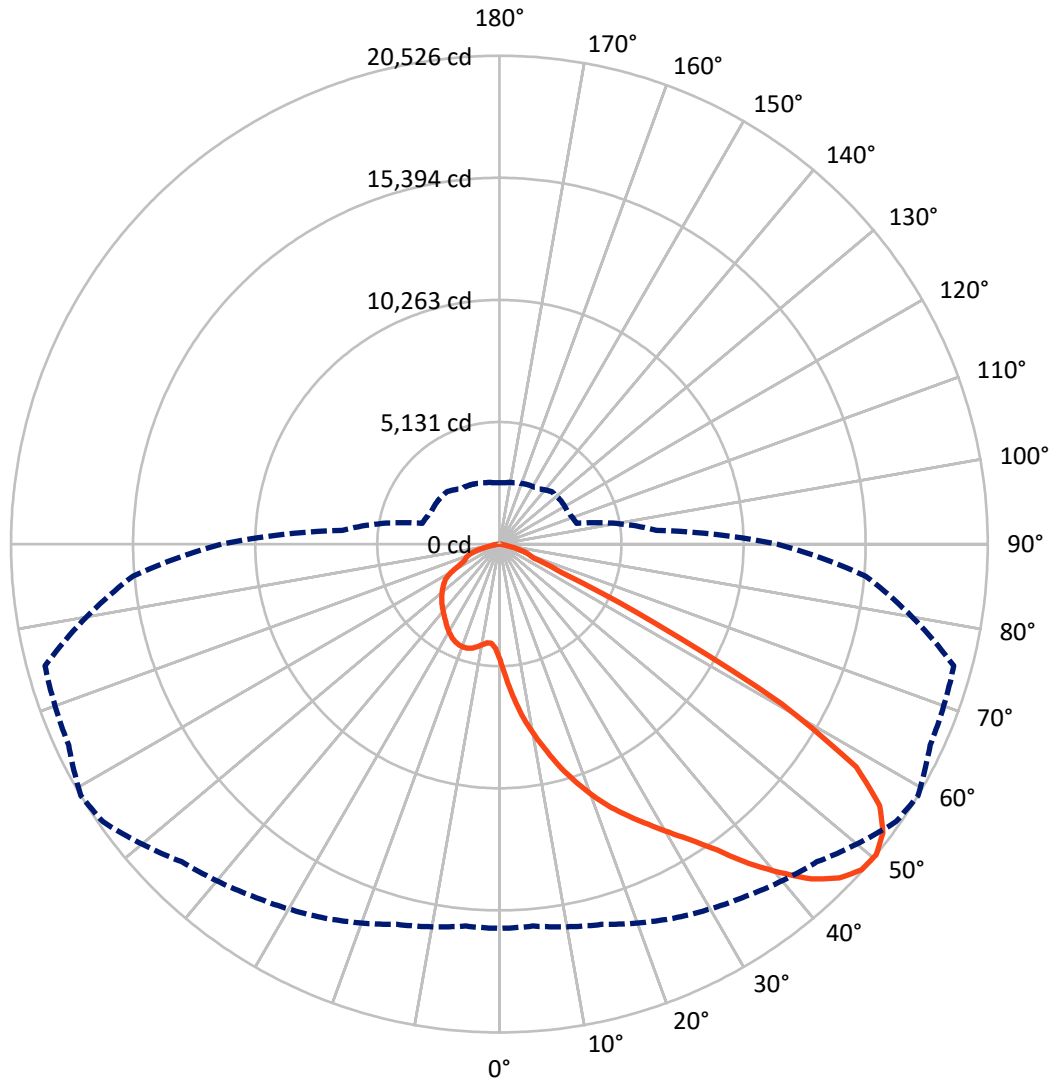
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7421.5	0.0	7421.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	24843.4	0.0	24843.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	32264.9	0.0	32264.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.4	1.7
10°-20°	1990.8	6.2
20°-30°	3769.7	11.7
30°-40°	6251.3	19.4
40°-50°	8539.6	26.5
50°-60°	7751.8	24.0
60°-70°	2581.4	8.0
70°-80°	752.9	2.3
80°-90°	79.1	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°	32264.9	100.0
0°-180°	32264.9	100.0

Coefficient of Utilization



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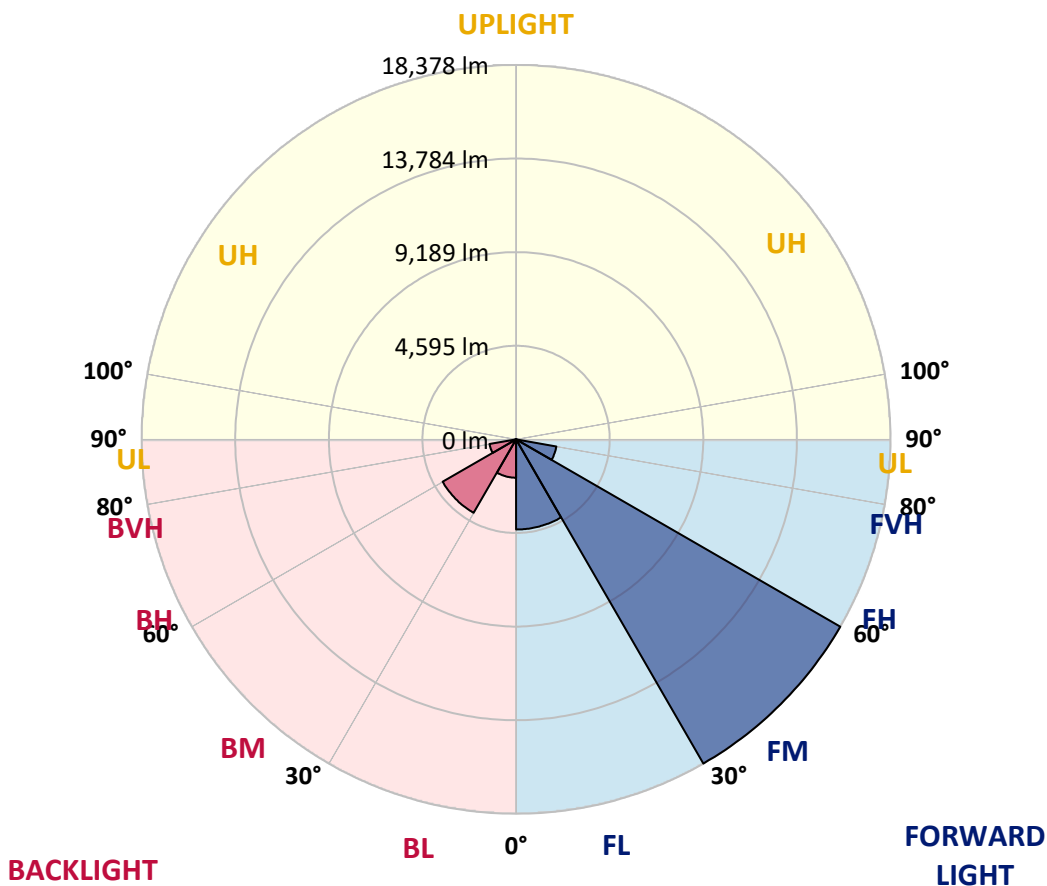
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4424.3	13.7			
FM (30°-60°)	18378.5	57.0			
FH (60°-80°)	2009.6	6.2			G2/5000
FVH (80°-90°)	30.9	0.1			G1/100
BL (0°-30°)	1884.5	5.8	B3/2500		
BM (30°-60°)	4164.2	12.9	B3/5000		
BH (60°-80°)	1324.7	4.1	B3/2500		G3/2500
BVH (80°-90°)	48.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4
2.5°	6333.8	6381.2	6307.6	6312.8	6128.8	6044.7	5808.2	5668.9	5576.9	5319.4	5085.5
5°	7611.1	7555.9	7498.1	7463.9	7303.6	7077.6	6783.3	6549.4	6333.8	5829.2	5343.0
7.5°	8394.3	8365.4	8326.0	8305.0	8147.3	7910.7	7616.4	7416.6	7103.9	6420.6	5655.8
10°	9059.2	9025.1	9001.4	9017.2	8888.4	8736.0	8415.3	8186.7	7834.5	7046.1	6034.2
12.5°	9574.4	9592.8	9600.6	9684.7	9629.5	9537.6	9206.4	8964.6	8573.0	7705.7	6478.4
15°	9981.7	9976.5	10068.4	10228.8	10318.1	10260.3	9994.9	9792.5	9314.2	8354.9	6956.7
17.5°	10076.3	10081.6	10226.1	10507.3	10799.1	10941.0	10791.2	10549.4	10076.3	8996.2	7453.4
20°	10152.5	10163.1	10312.9	10633.5	11059.3	11456.1	11479.8	11306.3	10898.9	9690.0	7958.0
22.5°	10633.5	10657.2	10696.6	10898.9	11282.7	11784.6	12060.6	12023.8	11682.1	10418.0	8502.1
25°	11897.6	11826.7	11634.8	11577.0	11724.2	12131.5	12602.0	12672.9	12504.7	11219.6	9088.1
27.5°	13458.8	13382.5	13098.7	12799.1	12481.1	12623.0	13125.0	13337.9	13340.5	12102.6	9676.9
30°	14875.3	14814.9	14583.6	14155.2	13605.9	13400.9	13771.5	14058.0	14228.8	13122.4	10347.0
32.5°	16086.9	16031.7	15719.0	15369.4	14833.3	14420.7	14554.7	14830.7	15230.1	14441.7	11180.2
35°	17106.6	17051.4	16751.8	16399.7	15902.9	15655.9	15608.6	15797.8	16315.6	15818.8	12136.8
37.5°	17934.5	17879.3	17566.6	17235.4	16857.0	16872.7	16943.7	17035.7	17332.7	17293.2	13159.2
40°	18470.6	18412.8	18189.4	17952.9	17713.7	17903.0	18255.1	18144.8	18302.4	18483.8	14100.0
42.5°	18709.8	18636.2	18507.4	18454.9	18381.3	18675.6	19353.7	19243.3	19054.1	19277.5	14799.1
45°	18470.6	18407.6	18404.9	18565.3	18736.1	19114.5	20113.2	20023.9	19545.6	19661.2	15217.0
47.5°	17737.4	17682.2	17832.0	18252.5	18673.0	19224.9	20452.3	20468.0	19895.1	19821.5	15487.7
50°	16152.6	16115.8	16549.5	17345.8	18071.2	18880.6	20344.5	20525.9	19979.2	19771.6	15453.5
52.5°	12930.5	13101.3	14044.8	15374.7	16783.4	18276.2	19945.0	20181.6	19574.5	19443.1	15269.6
55°	8851.6	8930.5	9874.0	11816.2	14050.1	16967.3	19027.8	19393.1	19096.1	19387.9	15461.4
57.5°	4583.5	4646.6	5390.3	7114.4	9529.7	13408.8	16481.1	17679.6	18131.6	19666.5	16058.0
60°	1881.8	1934.3	2241.8	3074.9	4806.9	7808.2	11860.8	13637.5	14699.2	17960.8	14260.3
62.5°	1366.6	1392.9	1540.1	1834.4	2517.8	3826.6	6712.3	7366.7	8113.1	11256.4	9054.0
65°	1151.1	1180.0	1298.3	1477.0	1837.1	2346.9	2867.3	2883.1	3177.4	4586.1	3356.1
67.5°	964.5	990.8	1095.9	1248.4	1484.9	1666.2	1540.1	1542.7	1537.5	1663.6	1608.4
70°	751.7	772.7	877.8	1040.7	1164.3	1069.7	1203.7	1332.5	1277.3	1327.2	1403.4
72.5°	549.3	572.9	664.9	788.4	756.9	762.2	975.0	1106.5	1074.9	1130.1	1201.1
75°	396.9	412.6	459.9	394.2	415.2	502.0	685.9	756.9	788.4	835.8	898.8
77.5°	128.8	128.8	144.5	181.3	226.0	278.6	349.5	378.5	425.8	478.3	523.0
80°	65.7	68.3	81.5	99.9	126.2	160.3	205.0	218.1	241.8	270.7	289.1
82.5°	31.5	34.2	39.4	49.9	65.7	84.1	113.0	126.2	141.9	160.3	173.5
85°	7.9	7.9	10.5	15.8	21.0	31.5	42.1	49.9	63.1	76.2	84.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	7.9	10.5	13.1	15.8	21.0
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°	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4	4888.4
2.5°	4980.3	4833.2	4643.9	4483.6	4336.4	4223.4	4126.2	4078.9	4034.2	4002.7	4013.2
5°	5117.0	4864.7	4512.5	4268.1	4118.3	4042.1	3989.5	3963.3	3958.0	3937.0	3929.1
7.5°	5316.7	4956.7	4486.3	4239.2	4139.3	4099.9	4071.0	4055.2	4063.1	4042.1	4034.2
10°	5563.8	5109.1	4552.0	4333.8	4247.1	4218.2	4186.6	4165.6	4155.1	4123.6	4118.3
12.5°	5871.3	5298.4	4670.2	4454.7	4368.0	4318.1	4276.0	4239.2	4215.6	4176.1	4165.6
15°	6202.4	5508.6	4809.5	4573.0	4470.5	4396.9	4328.6	4273.4	4231.3	4178.8	4170.9
17.5°	6562.5	5729.4	4925.2	4654.5	4523.0	4425.8	4325.9	4244.5	4186.6	4118.3	4110.4
20°	6938.3	5952.8	5011.9	4693.9	4525.7	4394.3	4260.2	4152.5	4078.9	4010.6	4005.3
22.5°	7327.3	6157.8	5064.4	4683.4	4483.6	4320.7	4160.4	4039.5	3952.7	3871.3	3866.0
25°	7718.9	6354.9	5077.6	4641.3	4399.5	4210.3	4050.0	3908.1	3810.8	3718.8	3708.3
27.5°	8115.7	6520.4	5046.0	4557.2	4286.5	4081.5	3921.2	3781.9	3682.0	3590.1	3574.3
30°	8538.9	6662.4	4977.7	4446.8	4155.1	3944.9	3787.2	3682.0	3587.4	3495.4	3479.7
32.5°	8990.9	6785.9	4880.5	4312.8	4002.7	3808.2	3692.6	3597.9	3503.3	3421.9	3406.1
35°	9529.7	6867.4	4735.9	4139.3	3860.8	3708.3	3629.5	3519.1	3403.5	3314.1	3306.2
37.5°	10086.8	6930.4	4562.5	3973.8	3737.2	3650.5	3584.8	3435.0	3290.4	3182.7	3169.5
40°	10625.6	6983.0	4347.0	3818.7	3624.2	3608.5	3519.1	3332.5	3082.8	2961.9	2951.4
42.5°	11127.6	6998.8	4120.9	3653.1	3521.7	3513.8	3414.0	3124.9	2933.0	2856.8	2846.3
45°	11471.9	6985.6	3887.0	3498.1	3419.2	3377.2	3272.0	2975.1	2856.8	2788.5	2775.3
47.5°	11726.8	6917.3	3624.2	3335.1	3303.6	3245.8	3019.7	2880.5	2770.1	2701.7	2688.6
50°	11682.1	6633.5	3358.8	3177.4	3164.3	3114.4	2835.8	2762.2	2664.9	2591.4	2580.8
52.5°	11450.9	6094.7	3088.1	3004.0	3030.3	2933.0	2704.4	2620.3	2536.2	2452.1	2433.7
55°	11508.7	5705.7	2883.1	2835.8	2883.1	2662.3	2557.2	2467.8	2389.0	2307.5	2291.7
57.5°	11761.0	5322.0	2664.9	2654.4	2704.4	2454.7	2368.0	2255.0	2141.9	2076.2	2076.2
60°	9876.6	3879.2	2281.2	2307.5	2420.5	2286.5	2210.3	2094.6	1971.1	1913.3	1913.3
62.5°	5839.8	2433.7	1892.3	1863.4	1934.3	2018.4	2060.5	1965.9	1818.7	1742.5	1745.1
65°	2573.0	1771.4	1668.9	1645.2	1624.2	1682.0	1797.7	1805.5	1650.5	1561.1	1563.7
67.5°	1584.8	1603.2	1561.1	1542.7	1524.3	1513.8	1503.3	1508.6	1466.5	1385.0	1382.4
70°	1429.7	1479.6	1450.7	1435.0	1411.3	1392.9	1329.8	1227.3	1156.4	1135.4	1159.0
72.5°	1230.0	1298.3	1282.5	1274.7	1245.7	1201.1	1117.0	1017.1	933.0	880.4	890.9
75°	927.7	982.9	990.8	993.4	961.9	919.9	833.1	749.0	675.4	620.2	633.4
77.5°	533.5	565.1	572.9	580.8	557.2	541.4	483.6	423.1	383.7	325.9	341.7
80°	297.0	310.1	310.1	312.7	299.6	281.2	241.8	207.6	189.2	162.9	165.6
82.5°	178.7	184.0	186.6	189.2	181.3	162.9	134.0	110.4	99.9	86.7	84.1
85°	86.7	92.0	92.0	94.6	81.5	71.0	55.2	42.1	36.8	26.3	28.9
87.5°	21.0	23.7	23.7	21.0	18.4	13.1	7.9	2.6	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)