

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: P638694

Luminaire Tested: GWS-SA4F-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28103.3 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

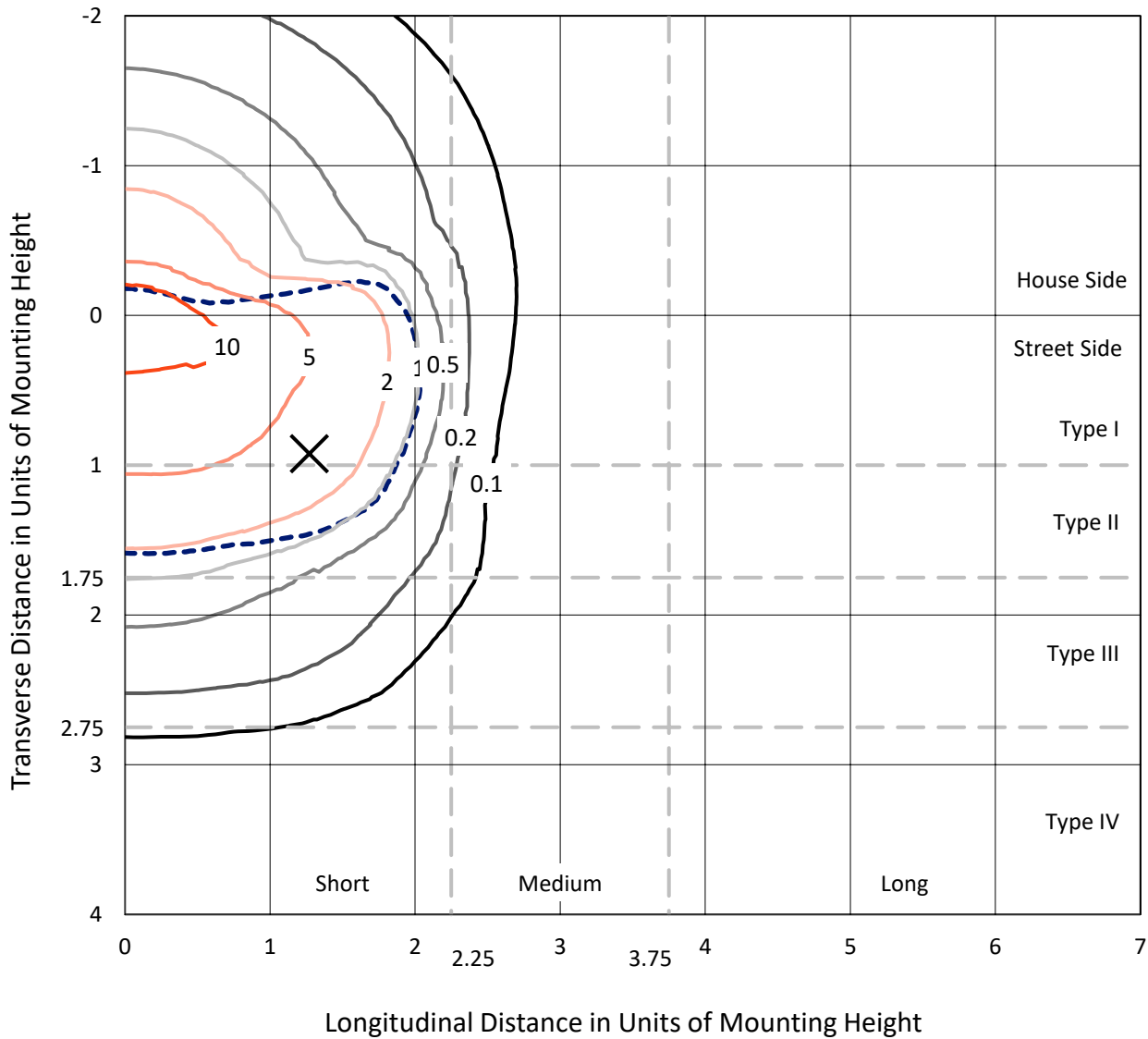
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

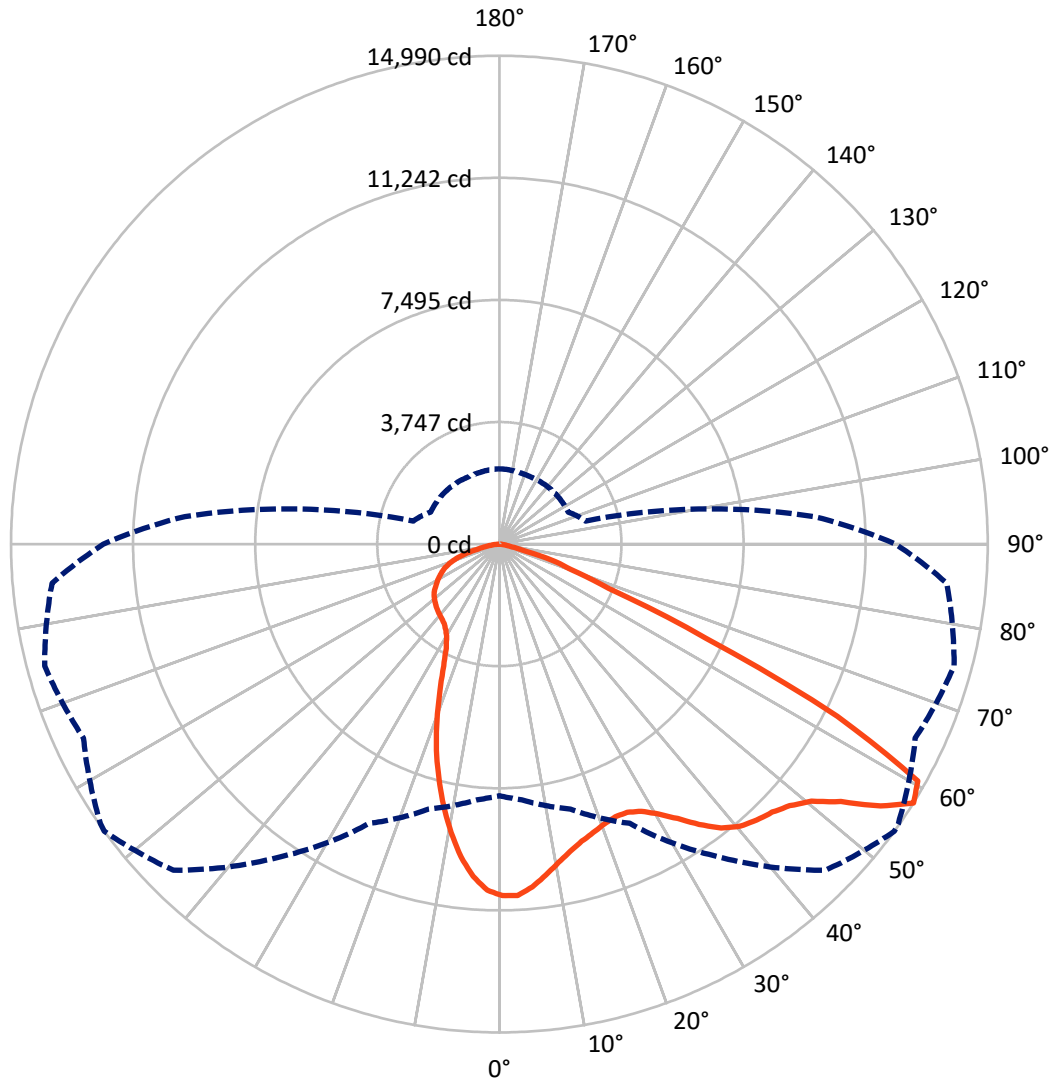
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8170.0	0.0	8170.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	19933.3	0.0	19933.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	28103.3	0.0	28103.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.4	3.4
10°-20°	2263.0	8.1
20°-30°	3131.6	11.1
30°-40°	4351.4	15.5
40°-50°	5746.8	20.4
50°-60°	6829.3	24.3
60°-70°	3783.5	13.5
70°-80°	942.2	3.4
80°-90°	107.1	0.4
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°	28103.3	100.0
0°-180°	28103.3	100.0

Coefficient of Utilization



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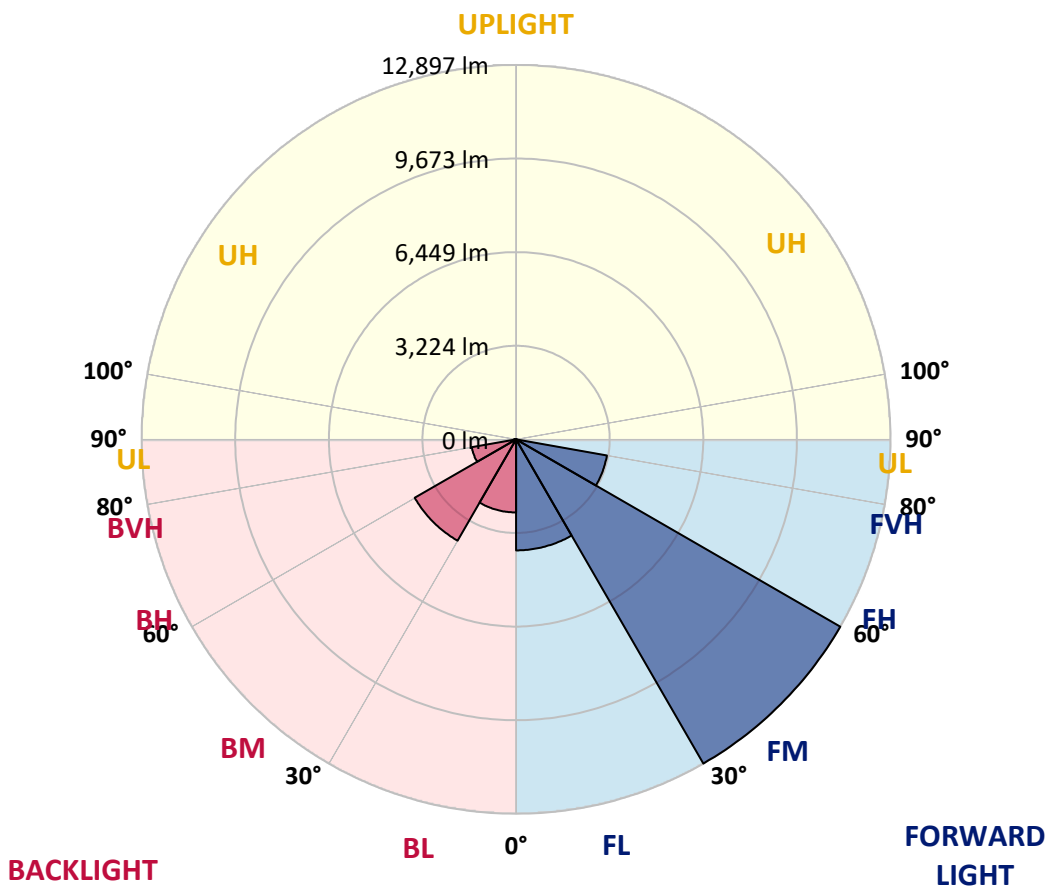
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3825.3	13.6			
FM (30°-60°)	12897.1	45.9			
FH (60°-80°)	3177.5	11.3			G2/5000
FVH (80°-90°)	33.5	0.1			G1/100
BL (0°-30°)	2517.6	9.0	B4/5000		
BM (30°-60°)	4030.4	14.3	B3/5000		
BH (60°-80°)	1548.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	73.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5
2.5°	10587.4	10609.1	10623.5	10674.0	10717.3	10755.8	10796.7	10796.7	10794.3	10787.1	10772.7
5°	10168.8	10192.9	10226.6	10296.3	10390.2	10457.5	10568.2	10577.8	10625.9	10645.2	10635.5
7.5°	9682.9	9690.1	9733.4	9824.8	9974.0	10094.3	10253.0	10272.3	10387.7	10455.1	10443.1
10°	9151.2	9127.2	9204.1	9338.9	9533.7	9735.8	9940.3	9957.1	10142.4	10269.9	10260.2
12.5°	8665.3	8667.7	8744.7	8908.2	9151.2	9401.4	9675.7	9714.2	9942.7	10106.3	10089.4
15°	8258.7	8268.3	8362.2	8547.4	8824.1	9122.4	9464.0	9500.0	9788.7	10005.2	9957.1
17.5°	7933.9	7943.6	8025.4	8237.1	8533.0	8893.8	9310.0	9346.1	9704.5	9961.9	9863.3
20°	7710.2	7705.4	7784.8	7986.9	8292.4	8684.5	9175.3	9228.2	9678.1	9978.8	9800.8
22.5°	7618.8	7616.4	7674.1	7840.1	8126.4	8523.3	9093.5	9165.7	9706.9	10053.4	9762.3
25°	7664.5	7654.9	7705.4	7828.1	8056.6	8460.8	9117.5	9194.5	9829.6	10207.3	9769.5
27.5°	7806.4	7794.4	7837.7	7948.4	8121.6	8525.7	9285.9	9375.0	10089.4	10488.8	9865.7
30°	8023.0	8015.7	8059.0	8164.9	8316.5	8742.3	9608.3	9709.3	10491.2	10926.6	10075.0
32.5°	8275.6	8263.5	8340.5	8463.2	8638.8	9136.8	10041.3	10173.6	10967.5	11489.5	10426.2
35°	8559.4	8549.8	8655.7	8833.7	9086.3	9685.3	10565.8	10710.1	11453.5	12127.1	10892.9
37.5°	8836.1	8836.1	9040.6	9305.2	9622.7	10281.9	11058.9	11150.3	11790.3	12692.4	11393.3
40°	9081.5	9095.9	9403.8	9800.8	10204.9	10820.8	11383.7	11460.7	11939.4	13082.1	11828.8
42.5°	9353.3	9365.3	9723.8	10243.4	10724.5	11256.2	11581.0	11619.5	11968.3	13277.0	12136.7
45°	9569.8	9586.7	10031.7	10587.4	11176.8	11583.4	11737.3	11771.0	12009.2	13382.8	12360.4
47.5°	9682.9	9706.9	10216.9	10864.1	11482.3	11876.9	11994.7	12009.2	12177.6	13568.1	12629.8
50°	9663.6	9711.7	10286.7	11001.2	11708.5	12172.8	12408.5	12432.6	12521.6	13839.9	12945.0
52.5°	9834.4	9856.1	10435.9	11164.8	12030.8	12718.9	13127.8	13161.5	13120.6	14044.4	13132.6
55°	9550.6	9654.0	10250.6	11140.7	12521.6	13563.2	14193.5	14176.7	13664.3	14272.9	13445.4
57.5°	7724.7	7876.2	8422.3	9456.7	11713.3	14155.0	14989.8	14948.9	14085.3	14448.5	13784.6
60°	5347.8	5371.9	5865.1	6598.8	9040.6	12504.7	14756.5	14845.5	14162.3	14227.2	13156.7
62.5°	4277.3	4270.1	4315.8	4335.0	5749.6	8790.4	11648.3	11973.1	11766.2	11085.4	9324.4
65°	3651.8	3678.3	3813.0	3743.2	3752.9	4950.9	6959.6	7005.4	6861.0	6615.6	4931.7
67.5°	2858.0	2903.7	3141.8	3413.7	3327.1	3187.5	3610.9	3589.3	2829.1	2189.2	1809.1
70°	1789.8	1818.7	2073.7	2679.9	2896.4	2617.4	2321.5	2311.9	1515.6	1246.1	1366.4
72.5°	1044.1	1048.9	1121.0	1493.9	1922.1	1789.8	1708.0	1645.5	974.3	993.5	1089.8
75°	575.0	575.0	572.6	644.7	757.8	671.2	649.5	632.7	651.9	738.5	810.7
77.5°	120.3	122.7	129.9	170.8	221.3	269.4	339.2	341.6	425.8	493.2	550.9
80°	55.3	57.7	72.2	91.4	117.9	156.4	206.9	209.3	257.4	310.3	348.8
82.5°	28.9	31.3	38.5	48.1	62.5	81.8	115.5	115.5	154.0	182.8	206.9
85°	9.6	9.6	14.4	19.2	26.5	33.7	45.7	45.7	67.4	89.0	103.4
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.6	9.6	12.0	14.4	24.1
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°	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5	10789.5
2.5°	10741.4	10666.8	10669.2	10683.6	10637.9	10568.2	10522.5	10464.7	10428.6	10421.4	10447.9
5°	10587.4	10500.8	10440.7	10378.1	10248.2	10094.3	9974.0	9875.3	9810.4	9786.3	9757.5
7.5°	10375.7	10262.7	10111.1	9935.5	9699.7	9425.5	9233.0	9052.6	8927.5	8891.4	8874.6
10°	10164.0	10000.4	9731.0	9403.8	9011.7	8641.2	8292.4	8025.4	7813.7	7693.4	7731.9
12.5°	9945.1	9743.0	9322.0	8819.2	8273.1	7715.0	7258.0	6815.3	6473.7	6302.9	6252.4
15°	9752.6	9478.4	8891.4	8210.6	7484.1	6781.6	6120.1	5456.1	5023.1	4787.3	4722.4
17.5°	9589.1	9233.0	8436.7	7589.9	6721.5	5720.7	4907.6	4291.7	3995.8	3865.9	3856.3
20°	9427.9	8992.4	7986.9	6921.2	5841.0	4720.0	3993.4	3704.8	3598.9	3553.2	3550.8
22.5°	9283.5	8739.9	7513.0	6252.4	4965.3	3967.0	3567.6	3442.5	3413.7	3413.7	3408.9
25°	9160.8	8487.3	7027.0	5542.7	4173.9	3531.5	3346.3	3293.4	3305.4	3327.1	3329.5
27.5°	9110.3	8290.0	6557.9	4813.8	3627.8	3278.9	3194.7	3187.5	3221.2	3254.9	3259.7
30°	9163.3	8155.3	6076.8	4116.1	3300.6	3125.0	3086.5	3100.9	3141.8	3175.5	3175.5
32.5°	9326.8	8087.9	5586.0	3606.1	3110.6	3016.7	3004.7	3019.1	3050.4	3069.7	3072.1
35°	9603.5	8114.4	5078.4	3262.1	2987.9	2937.3	2934.9	2944.6	2956.6	2968.6	2971.0
37.5°	9952.3	8232.3	4534.7	3062.4	2908.5	2879.6	2874.8	2872.4	2874.8	2874.8	2877.2
40°	10293.9	8410.3	4048.8	2944.6	2853.1	2829.1	2817.1	2800.2	2797.8	2793.0	2790.6
42.5°	10546.5	8547.4	3661.5	2860.4	2802.6	2773.8	2759.3	2732.9	2730.5	2728.0	2725.6
45°	10736.6	8662.9	3339.1	2778.6	2749.7	2723.2	2692.0	2667.9	2672.7	2677.5	2677.5
47.5°	10950.7	8763.9	3103.3	2701.6	2684.7	2658.3	2619.8	2603.0	2619.8	2636.6	2636.6
50°	11210.5	8905.8	2910.9	2624.6	2617.4	2586.1	2552.4	2545.2	2564.5	2588.5	2588.5
52.5°	11400.5	9028.5	2773.8	2547.6	2547.6	2506.7	2477.9	2475.4	2497.1	2521.2	2523.6
55°	11756.6	9314.8	2725.6	2458.6	2449.0	2417.7	2396.1	2379.2	2405.7	2427.3	2427.3
57.5°	12158.3	9694.9	2737.7	2331.1	2319.1	2309.5	2292.6	2273.4	2280.6	2304.6	2307.1
60°	11306.7	8958.8	2605.4	2203.6	2196.4	2191.6	2169.9	2136.2	2145.9	2165.1	2167.5
62.5°	7897.9	5954.1	2107.4	2044.8	2068.9	2066.5	2037.6	1999.1	2001.5	2028.0	2028.0
65°	4099.3	3221.2	1850.0	1900.5	1936.6	1922.1	1874.0	1840.3	1835.5	1869.2	1862.0
67.5°	1768.2	1758.6	1684.0	1748.9	1787.4	1756.1	1705.6	1650.3	1655.1	1667.1	1657.5
70°	1424.2	1467.5	1498.7	1568.5	1599.8	1542.0	1486.7	1455.4	1429.0	1426.6	1409.7
72.5°	1137.9	1198.0	1267.8	1340.0	1349.6	1291.9	1222.1	1193.2	1152.3	1149.9	1133.1
75°	856.4	906.9	962.3	1020.0	1020.0	964.7	919.0	904.5	856.4	842.0	827.6
77.5°	584.6	615.9	659.2	673.6	688.0	666.4	620.7	596.6	541.3	526.8	507.6
80°	368.1	389.7	416.2	425.8	440.2	413.8	377.7	351.2	312.7	300.7	291.1
82.5°	221.3	235.8	252.6	257.4	269.4	250.2	216.5	197.3	175.6	166.0	158.8
85°	113.1	120.3	129.9	132.3	129.9	110.7	98.6	89.0	74.6	72.2	67.4
87.5°	28.9	33.7	36.1	33.7	31.3	24.1	16.8	12.0	4.8	4.8	2.4
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)