

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: P642681

Luminaire Tested: GWS-SA6D-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30975.6 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

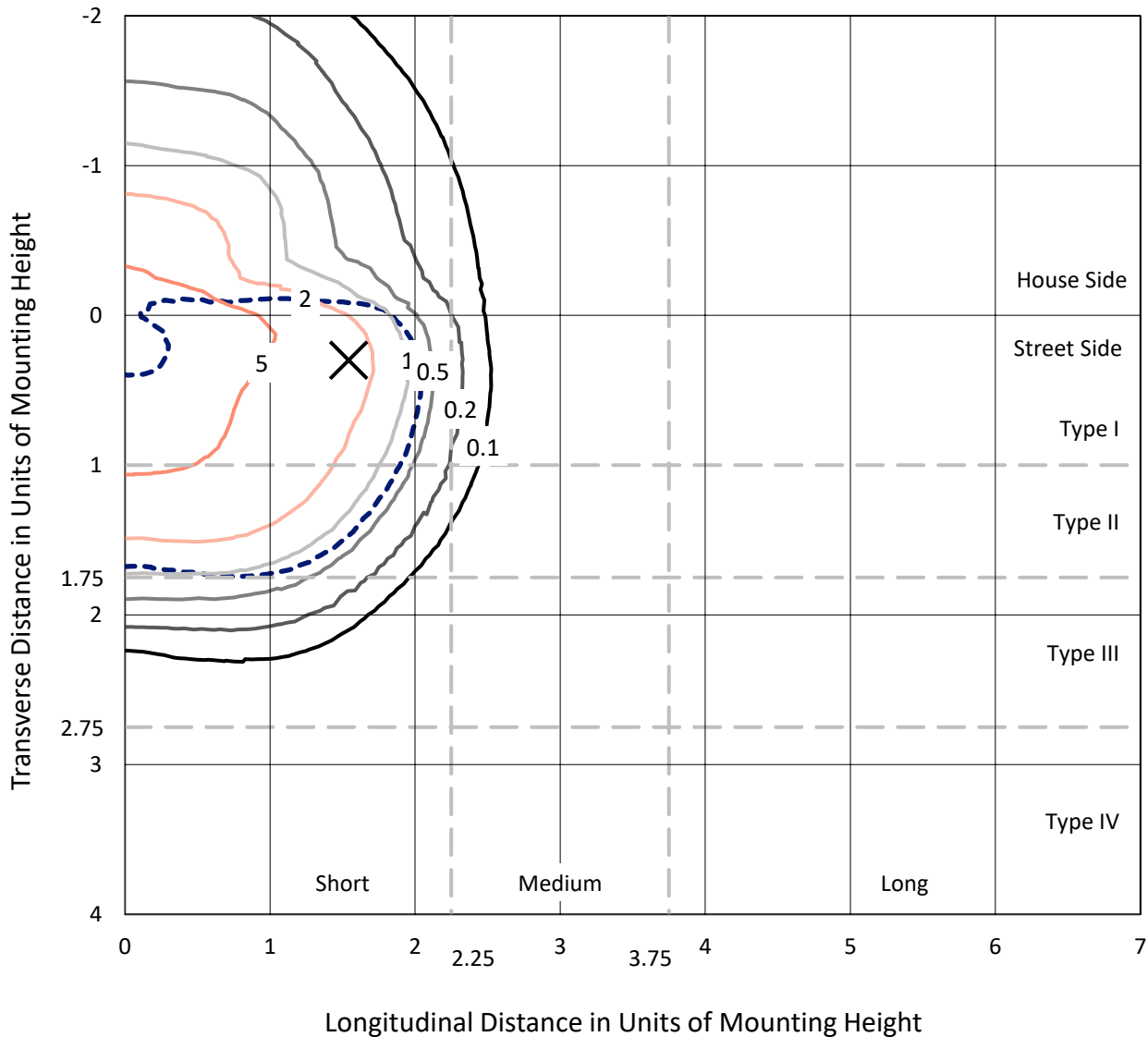
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

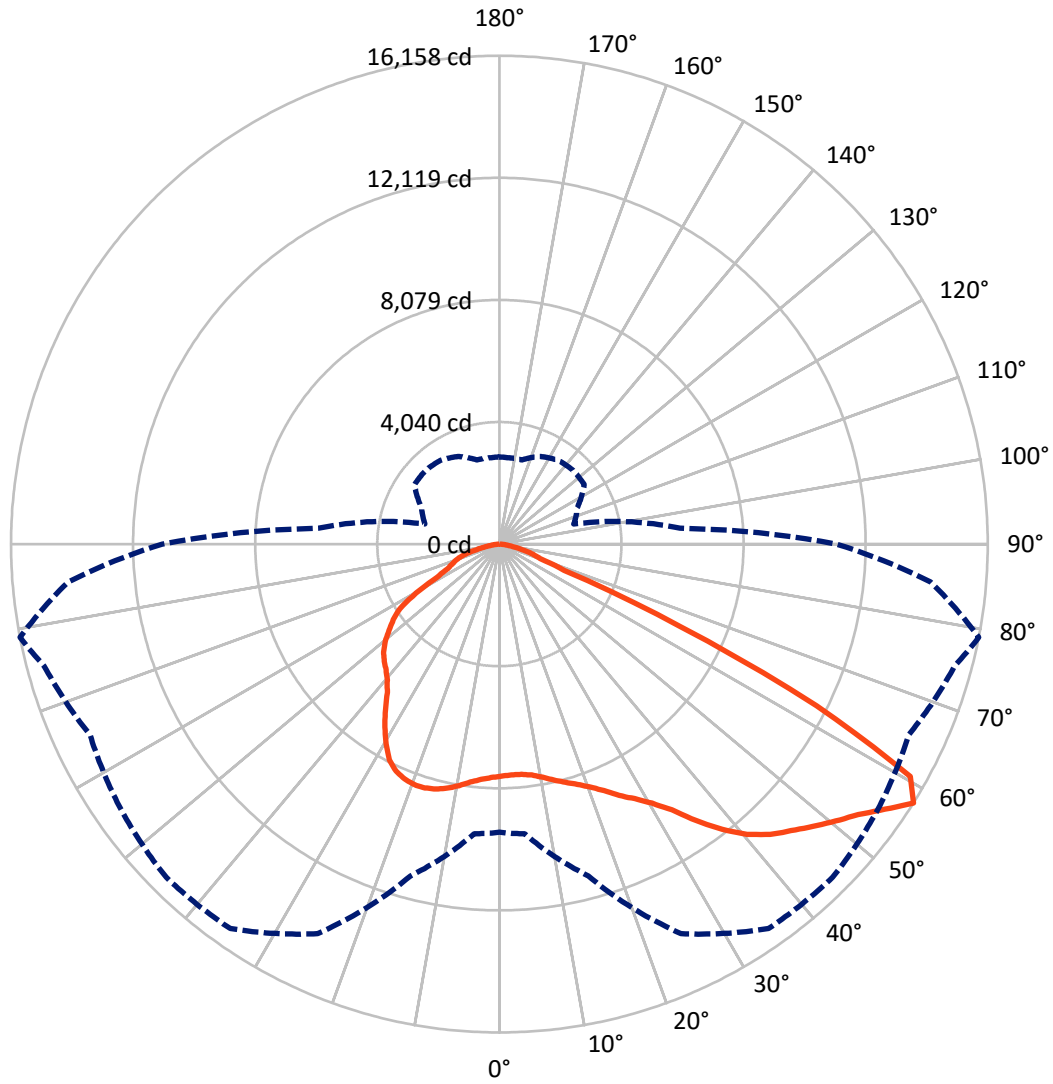
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9207.6	0.0	9207.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	21768.0	0.0	21768.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	30975.6	0.0	30975.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.9	2.3
10°-20°	1975.6	6.4
20°-30°	3348.8	10.8
30°-40°	5125.7	16.5
40°-50°	6834.6	22.1
50°-60°	7893.5	25.5
60°-70°	4101.7	13.2
70°-80°	871.9	2.8
80°-90°	112.9	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°	30975.6	100.0
0°-180°	30975.6	100.0

Coefficient of Utilization



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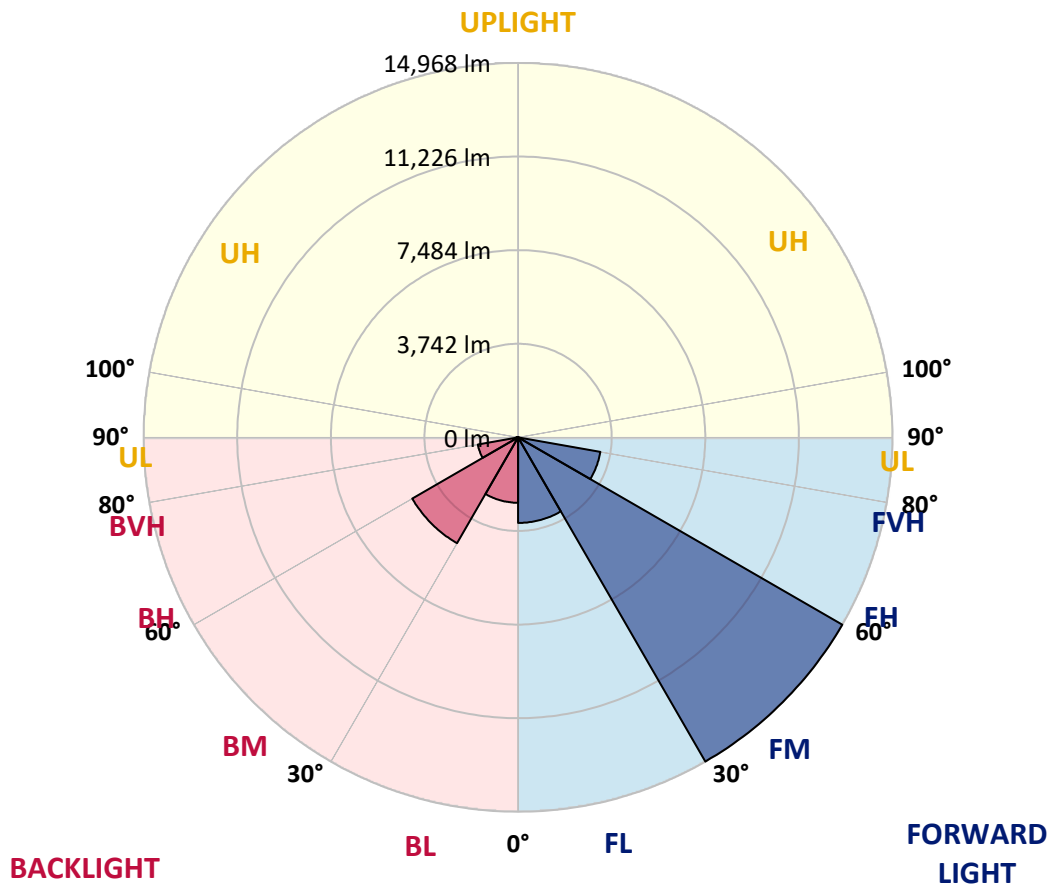
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3420.4	11.0			
FM (30°-60°)	14968.3	48.3			
FH (60°-80°)	3339.9	10.8			G2/5000
FVH (80°-90°)	39.4	0.1			G1/100
BL (0°-30°)	2614.9	8.4	B4/5000		
BM (30°-60°)	4885.5	15.8	B3/5000		
BH (60°-80°)	1633.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	73.6	0.2			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°	55°	65°	75°	79°	85°
0°	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5
2.5°	7327.0	7311.8	7316.8	7337.1	7413.1	7468.8	7527.0	7580.2	7630.9	7646.1	7658.7
5°	7066.1	7038.2	7045.8	7078.8	7167.4	7261.1	7365.0	7491.6	7613.2	7653.7	7706.9
7.5°	6881.2	6876.2	6888.8	6939.5	7033.2	7121.8	7256.0	7435.9	7646.1	7714.5	7808.2
10°	6635.5	6625.4	6676.1	6779.9	6934.4	7076.2	7235.8	7448.5	7742.3	7843.6	7988.0
12.5°	6440.5	6435.5	6488.7	6633.0	6830.6	7056.0	7276.3	7514.4	7871.5	8010.8	8188.1
15°	6554.5	6531.7	6534.2	6635.5	6812.8	7078.8	7377.6	7633.4	8000.6	8177.9	8405.9
17.5°	6886.3	6845.8	6815.4	6833.1	6934.4	7210.5	7532.1	7793.0	8150.1	8357.8	8636.3
20°	7344.7	7321.9	7238.3	7182.6	7205.4	7448.5	7775.2	8018.4	8345.1	8578.1	8876.9
22.5°	7960.1	7904.4	7790.4	7701.8	7633.4	7823.4	8124.7	8335.0	8616.1	8859.2	9170.7
25°	8722.5	8641.4	8461.6	8322.3	8175.4	8370.4	8638.9	8798.4	8988.4	9213.8	9510.1
27.5°	9500.0	9431.6	9231.5	9044.1	8861.8	8983.3	9302.4	9393.6	9373.3	9538.0	9791.2
30°	10328.2	10242.0	10052.1	9849.5	9613.9	9692.5	9978.7	10024.2	9809.0	9945.7	10117.9
32.5°	11201.9	11118.3	10953.7	10718.2	10452.3	10482.6	10561.2	10604.2	10399.1	10477.6	10609.3
35°	12090.9	12012.4	11845.2	11612.2	11417.2	11232.3	11034.8	11207.0	11088.0	11239.9	11229.8
37.5°	12903.9	12825.4	12721.5	12541.7	12207.4	11842.7	11386.8	11599.5	11784.4	11976.9	11944.0
40°	13453.5	13400.3	13425.6	13397.7	12967.2	12245.4	11559.0	11792.0	12296.0	12625.3	12607.5
42.5°	13927.1	13873.9	14020.8	14127.1	13620.6	12617.7	11642.6	11865.5	12622.7	13136.9	13111.5
45°	14137.3	14122.1	14365.2	14702.0	14218.3	13012.8	11857.9	12017.4	12870.9	13529.4	13433.2
47.5°	13886.5	13939.7	14418.4	14988.2	14714.7	13481.3	12298.6	12339.1	13195.1	13954.9	13683.9
50°	13387.6	13504.1	14149.9	14995.8	15076.9	14010.6	12908.9	12807.6	13630.7	14408.3	13815.6
52.5°	12660.7	12782.3	13835.9	14937.6	15284.6	14623.5	13721.9	13577.6	14180.3	14861.6	13838.4
55°	10991.7	11156.3	13116.6	14805.9	15487.2	15180.7	14638.7	14344.9	14889.5	15484.6	14063.8
57.5°	9535.4	9621.5	11364.0	14220.8	15527.7	15591.0	15292.2	14942.6	15593.5	16158.3	14317.1
60°	6997.7	7018.0	8585.7	11766.7	14284.2	15352.9	15239.0	14719.8	15259.2	15618.9	13157.1
62.5°	3953.5	3956.0	5207.1	7853.8	10670.1	12513.8	12584.8	12126.3	11673.0	11779.4	9158.1
65°	1484.1	1623.4	2378.2	3859.8	6151.8	7387.7	7681.5	7787.9	7033.2	6564.6	4910.8
67.5°	992.8	1025.7	1387.9	1985.6	2737.8	3160.8	3535.6	3545.7	2593.4	2312.3	1934.9
70°	757.3	790.2	1091.6	1420.8	1387.9	1281.5	1385.4	1347.4	1393.0	1430.9	1471.5
72.5°	564.8	597.7	845.9	1002.9	833.2	820.6	929.5	1033.3	1129.6	1170.1	1233.4
75°	374.8	400.2	569.8	536.9	460.9	544.5	678.8	782.6	838.3	886.4	934.5
77.5°	238.1	255.8	303.9	245.7	255.8	319.1	395.1	488.8	542.0	590.1	615.4
80°	108.9	106.4	103.8	116.5	144.4	187.4	238.1	293.8	334.3	354.6	369.8
82.5°	43.1	48.1	53.2	63.3	78.5	101.3	134.2	172.2	205.1	210.2	222.9
85°	17.7	20.3	22.8	27.9	35.5	45.6	55.7	78.5	98.8	106.4	114.0
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	7.6	12.7	22.8	25.3	27.9
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°	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5	7676.5
2.5°	7727.1	7694.2	7749.9	7787.9	7823.4	7785.4	7772.7	7739.8	7734.7	7734.7	7752.4
5°	7798.0	7775.2	7833.5	7856.3	7853.8	7770.2	7719.5	7653.7	7620.8	7620.8	7625.8
7.5°	7924.7	7912.0	7944.9	7909.5	7828.4	7658.7	7491.6	7352.3	7258.6	7210.5	7225.7
10°	8134.9	8119.7	8091.8	7960.1	7727.1	7375.1	7033.2	6779.9	6628.0	6541.8	6546.9
12.5°	8340.0	8314.7	8215.9	7924.7	7446.0	6886.3	6438.0	6154.3	5987.2	5885.9	5863.1
15°	8565.4	8499.6	8286.8	7742.3	6987.6	6288.6	5820.0	5513.6	5333.8	5273.0	5270.4
17.5°	8780.7	8664.2	8279.2	7418.1	6438.0	5663.0	5191.9	5002.0	4971.6	4999.5	5007.1
20°	8998.5	8811.1	8195.7	6969.9	5784.6	5040.0	4796.8	4875.4	4989.3	5065.3	5083.0
22.5°	9223.9	8932.7	8005.7	6392.4	5095.7	4619.6	4720.9	4893.1	5034.9	5136.2	5146.3
25°	9477.2	9046.6	7722.1	5685.8	4543.6	4503.1	4703.1	4885.5	5037.4	5153.9	5174.2
27.5°	9621.5	9049.2	7324.4	4958.9	4290.3	4457.5	4660.1	4832.3	4984.3	5110.9	5133.7
30°	9763.4	8980.8	6693.8	4368.8	4216.9	4404.3	4586.6	4746.2	4890.6	5014.7	5042.5
32.5°	9963.5	8917.5	5966.9	4029.5	4173.8	4353.6	4503.1	4644.9	4756.3	4812.0	4827.2
35°	10211.7	8836.4	5194.5	3882.6	4146.0	4313.1	4444.8	4520.8	4376.4	4346.0	4379.0
37.5°	10558.6	8760.4	4424.5	3819.2	4128.2	4297.9	4414.4	4219.4	4042.1	3971.2	3996.5
40°	10933.5	8717.4	3902.8	3768.6	4135.8	4313.1	4287.8	3999.1	3743.3	3593.8	3588.8
42.5°	11252.6	8651.5	3568.5	3735.7	4156.1	4371.4	4115.6	3804.0	3424.1	3335.5	3338.0
45°	11467.9	8484.4	3391.2	3700.2	4173.8	4384.0	4034.5	3535.6	3264.6	3208.9	3206.3
47.5°	11556.5	8180.5	3277.3	3644.5	4171.3	4280.2	3869.9	3424.1	3153.2	3138.0	3148.1
50°	11498.2	7681.5	3160.8	3535.6	4110.5	4171.3	3679.9	3325.4	3077.2	3160.8	3221.5
52.5°	11283.0	7035.7	3021.5	3386.2	4001.6	4047.2	3583.7	3264.6	3021.5	3132.9	3181.0
55°	11227.2	6511.4	2844.2	3191.1	3839.5	3826.8	3482.4	3234.2	2983.5	2940.4	2948.0
57.5°	11153.8	5999.9	2550.4	2841.6	3429.2	3449.5	3386.2	3198.7	2884.7	2872.0	2884.7
60°	9689.9	4599.3	2274.3	2451.6	2816.3	2925.2	3277.3	3132.9	2725.1	2671.9	2669.4
62.5°	6329.1	2785.9	2023.6	2137.6	2294.6	2421.2	2988.5	2942.9	2550.4	2517.5	2540.3
65°	3403.9	1985.6	1841.2	1909.6	1995.7	2092.0	2476.9	2621.3	2304.7	2188.2	2190.7
67.5°	1739.9	1689.3	1704.5	1752.6	1818.4	1866.6	1998.3	2124.9	1965.3	1866.6	1864.0
70°	1489.2	1529.7	1552.5	1580.4	1623.4	1615.8	1628.5	1651.3	1638.6	1590.5	1588.0
72.5°	1268.9	1332.2	1337.2	1342.3	1357.5	1322.0	1299.3	1261.3	1263.8	1271.4	1273.9
75°	964.9	1025.7	1040.9	1033.3	1048.5	1002.9	972.5	934.5	889.0	881.4	886.4
77.5°	628.1	676.2	699.0	693.9	701.5	666.1	650.9	610.4	557.2	536.9	536.9
80°	379.9	407.8	425.5	430.6	438.1	412.8	387.5	352.0	329.2	306.5	306.5
82.5°	230.5	248.2	260.9	260.9	268.5	240.6	220.3	195.0	184.9	164.6	164.6
85°	116.5	129.2	134.2	131.7	126.6	103.8	96.2	83.6	78.5	68.4	68.4
87.5°	27.9	35.5	35.5	25.3	25.3	12.7	7.6	2.5	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)