

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: P640756

Luminaire Tested: GWS-SA5E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640756
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-SA5E-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32913.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

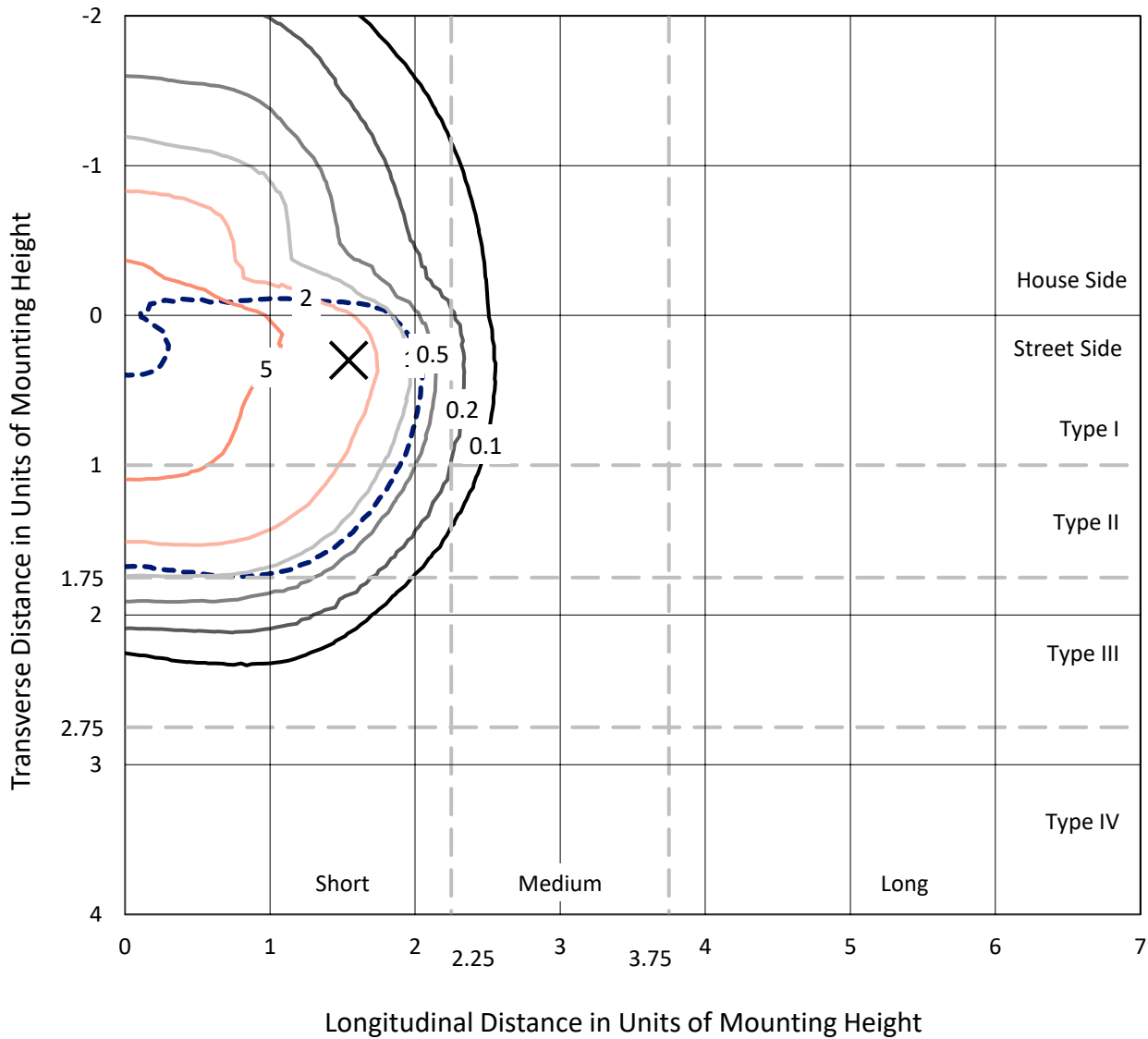
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

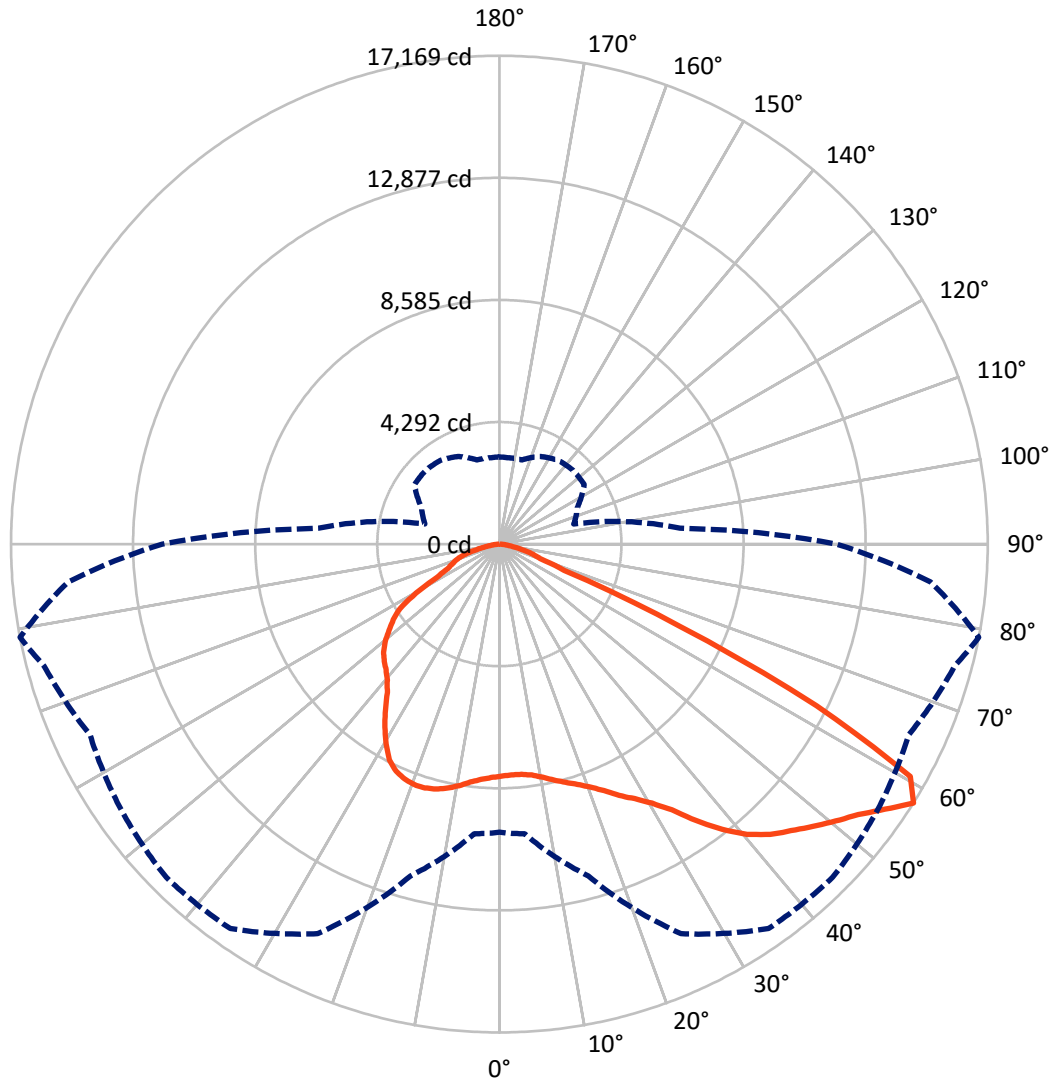
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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	9783.6	0.0	9783.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	23129.6	0.0	23129.6
	% Fixture	70.3	0.0	70.3
Total	Lumens	32913.1	0.0	32913.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.4	2.3
10°-20°	2099.2	6.4
20°-30°	3558.2	10.8
30°-40°	5446.3	16.5
40°-50°	7262.1	22.1
50°-60°	8387.2	25.5
60°-70°	4358.3	13.2
70°-80°	926.5	2.8
80°-90°	120.0	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°	32913.1	100.0
0°-180°	32913.1	100.0

Coefficient of Utilization



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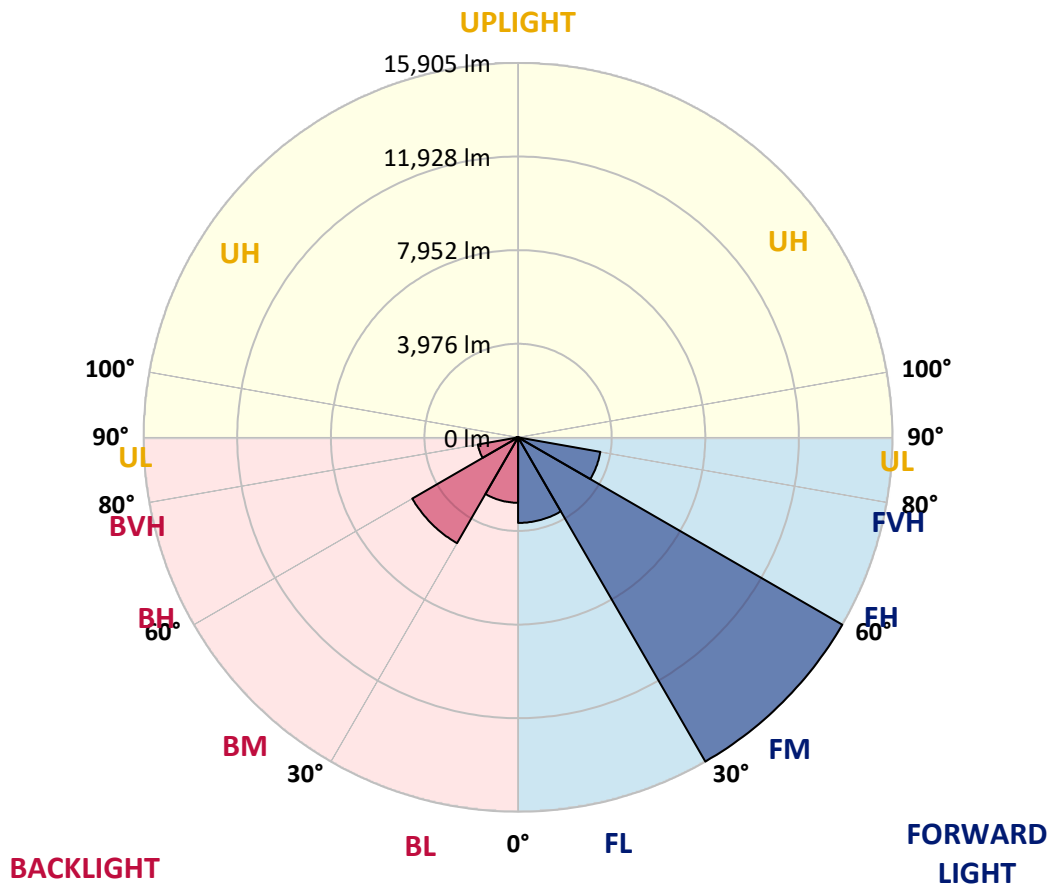
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.3	11.0			
FM (30°-60°)	15904.5	48.3			
FH (60°-80°)	3548.8	10.8			G2/5000
FVH (80°-90°)	41.8	0.1			G1/100
BL (0°-30°)	2778.4	8.4	B4/5000		
BM (30°-60°)	5191.1	15.8	B4/8500		
BH (60°-80°)	1735.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	78.2	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°	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6
2.5°	7785.3	7769.1	7774.5	7796.0	7876.8	7936.0	7997.9	8054.4	8108.2	8124.3	8137.8
5°	7508.1	7478.5	7486.6	7521.5	7615.7	7715.3	7825.6	7960.2	8089.4	8132.4	8188.9
7.5°	7311.6	7306.2	7319.7	7373.5	7473.1	7567.3	7709.9	7901.0	8124.3	8197.0	8296.6
10°	7050.6	7039.8	7093.7	7204.0	7368.1	7518.8	7688.4	7914.4	8226.6	8334.2	8487.6
12.5°	6843.4	6838.0	6894.5	7047.9	7257.8	7497.3	7731.4	7984.4	8363.8	8511.8	8700.2
15°	6964.5	6940.3	6943.0	7050.6	7239.0	7521.5	7839.1	8110.9	8501.1	8689.5	8931.7
17.5°	7317.0	7274.0	7241.7	7260.5	7368.1	7661.5	8003.2	8280.4	8659.9	8880.5	9176.5
20°	7804.1	7779.9	7691.1	7631.9	7656.1	7914.4	8261.6	8519.9	8867.1	9114.6	9432.2
22.5°	8458.0	8398.8	8277.7	8183.5	8110.9	8312.7	8632.9	8856.3	9155.0	9413.4	9744.4
25°	9268.0	9181.9	8990.9	8842.8	8686.8	8894.0	9179.2	9348.8	9550.6	9790.1	10105.0
27.5°	10094.2	10021.5	9808.9	9609.8	9416.0	9545.2	9884.3	9981.2	9959.6	10134.6	10403.7
30°	10974.2	10882.7	10680.8	10465.6	10215.3	10298.7	10602.8	10651.2	10422.5	10567.8	10750.8
32.5°	11902.6	11813.8	11638.9	11388.6	11106.0	11138.3	11221.8	11267.5	11049.5	11132.9	11272.9
35°	12847.2	12763.7	12586.1	12338.5	12131.3	11934.9	11725.0	11908.0	11781.5	11943.0	11932.2
37.5°	13711.0	13627.6	13517.2	13326.2	12970.9	12583.4	12099.0	12325.1	12521.5	12726.1	12691.1
40°	14295.0	14238.4	14265.4	14235.7	13778.3	13011.3	12282.0	12529.6	13065.1	13415.0	13396.1
42.5°	14798.2	14741.7	14897.8	15010.8	14472.6	13406.9	12370.8	12607.7	13412.3	13958.6	13931.7
45°	15021.5	15005.4	15263.7	15621.6	15107.7	13826.7	12599.6	12769.1	13676.0	14375.7	14273.4
47.5°	14755.1	14811.6	15320.3	15925.7	15635.1	14324.6	13067.8	13110.9	14020.5	14827.8	14539.8
50°	14225.0	14348.8	15035.0	15933.8	16019.9	14887.0	13716.4	13608.7	14483.3	15309.5	14679.8
52.5°	13452.6	13581.8	14701.3	15871.9	16240.6	15538.2	14580.2	14426.8	15067.3	15791.2	14704.0
55°	11679.2	11854.2	13937.0	15732.0	16455.9	16130.3	15554.4	15242.2	15820.8	16453.2	14943.5
57.5°	10131.9	10223.4	12074.8	15110.3	16498.9	16566.2	16248.7	15877.3	16568.9	17169.0	15212.6
60°	7435.4	7456.9	9122.7	12502.7	15177.6	16313.3	16192.2	15640.5	16213.7	16595.8	13980.1
62.5°	4200.8	4203.4	5532.8	8345.0	11337.5	13296.6	13371.9	12884.8	12403.1	12516.2	9730.9
65°	1577.0	1725.0	2526.9	4101.2	6536.6	7849.8	8162.0	8275.0	7473.1	6975.2	5218.0
67.5°	1054.9	1089.9	1474.7	2109.8	2909.0	3358.5	3756.7	3767.5	2755.7	2456.9	2056.0
70°	804.6	839.6	1159.9	1509.7	1474.7	1361.7	1472.0	1431.6	1480.1	1520.5	1563.5
72.5°	600.1	635.1	898.8	1065.7	885.4	871.9	987.6	1098.0	1200.2	1243.3	1310.6
75°	398.3	425.2	605.5	570.5	489.8	578.6	721.2	831.5	890.7	941.9	993.0
77.5°	253.0	271.8	322.9	261.0	271.8	339.1	419.8	519.4	575.9	627.0	653.9
80°	115.7	113.0	110.3	123.8	153.4	199.1	253.0	312.2	355.2	376.7	392.9
82.5°	45.7	51.1	56.5	67.3	83.4	107.6	142.6	183.0	218.0	223.4	236.8
85°	18.8	21.5	24.2	29.6	37.7	48.4	59.2	83.4	105.0	113.0	121.1
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	8.1	13.5	24.2	26.9	29.6
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°	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6	8156.6
2.5°	8210.4	8175.5	8234.7	8275.0	8312.7	8272.3	8258.9	8223.9	8218.5	8218.5	8237.4
5°	8285.8	8261.6	8323.5	8347.7	8345.0	8256.2	8202.4	8132.4	8097.4	8097.4	8102.8
7.5°	8420.4	8406.9	8441.9	8404.2	8318.1	8137.8	7960.2	7812.2	7712.6	7661.5	7677.6
10°	8643.7	8627.6	8598.0	8458.0	8210.4	7836.4	7473.1	7204.0	7042.5	6951.0	6956.4
12.5°	8861.7	8834.8	8729.8	8420.4	7911.7	7317.0	6840.7	6539.3	6361.7	6254.0	6229.8
15°	9101.2	9031.2	8805.2	8226.6	7424.7	6681.9	6184.1	5858.5	5667.4	5602.8	5600.1
17.5°	9329.9	9206.1	8797.1	7882.1	6840.7	6017.2	5516.7	5314.9	5282.6	5312.2	5320.2
20°	9561.4	9362.2	8708.3	7405.8	6146.4	5355.2	5096.9	5180.3	5301.4	5382.1	5401.0
22.5°	9800.9	9491.4	8506.5	6792.3	5414.4	4908.5	5016.2	5199.1	5349.8	5457.5	5468.3
25°	10070.0	9612.5	8205.1	6041.4	4827.8	4784.7	4997.3	5191.1	5352.5	5476.3	5497.9
27.5°	10223.4	9615.2	7782.6	5269.1	4558.7	4736.3	4951.6	5134.6	5296.0	5430.6	5454.8
30°	10374.1	9542.5	7112.5	4642.1	4480.6	4679.8	4873.5	5043.1	5196.5	5328.3	5357.9
32.5°	10586.7	9475.3	6340.2	4281.5	4434.9	4625.9	4784.7	4935.4	5053.8	5113.0	5129.2
35°	10850.4	9389.1	5519.4	4125.4	4405.3	4582.9	4722.8	4803.6	4650.2	4617.9	4652.9
37.5°	11219.1	9308.4	4701.3	4058.1	4386.4	4566.7	4690.5	4483.3	4294.9	4219.6	4246.5
40°	11617.3	9262.7	4146.9	4004.3	4394.5	4582.9	4556.0	4249.2	3977.4	3818.6	3813.2
42.5°	11956.4	9192.7	3791.7	3969.3	4416.0	4644.8	4373.0	4042.0	3638.3	3544.1	3546.8
45°	12185.2	9015.1	3603.3	3931.7	4434.9	4658.2	4286.9	3756.7	3468.8	3409.6	3406.9
47.5°	12279.3	8692.1	3482.2	3872.4	4432.2	4547.9	4112.0	3638.3	3350.4	3334.2	3345.0
50°	12217.4	8162.0	3358.5	3756.7	4367.6	4432.2	3910.1	3533.4	3269.6	3358.5	3423.0
52.5°	11988.7	7475.8	3210.4	3598.0	4251.9	4300.3	3807.9	3468.8	3210.4	3328.9	3380.0
55°	11929.5	6918.7	3022.1	3390.7	4079.7	4066.2	3700.2	3436.5	3170.1	3124.3	3132.4
57.5°	11851.5	6375.1	2709.9	3019.4	3643.7	3665.2	3598.0	3398.8	3065.1	3051.7	3065.1
60°	10296.0	4887.0	2416.6	2605.0	2992.5	3108.2	3482.2	3328.9	2895.6	2839.1	2836.4
62.5°	6725.0	2960.2	2150.2	2271.3	2438.1	2572.7	3175.5	3127.0	2709.9	2674.9	2699.1
65°	3616.8	2109.8	1956.4	2029.1	2120.6	2222.8	2631.9	2785.3	2448.9	2325.1	2327.8
67.5°	1848.8	1794.9	1811.1	1862.2	1932.2	1983.3	2123.3	2257.8	2088.3	1983.3	1980.6
70°	1582.3	1625.4	1649.6	1679.2	1725.0	1716.9	1730.4	1754.6	1741.1	1690.0	1687.3
72.5°	1348.2	1415.5	1420.9	1426.3	1442.4	1404.7	1380.5	1340.2	1342.8	1350.9	1353.6
75°	1025.3	1089.9	1106.0	1098.0	1114.1	1065.7	1033.4	993.0	944.6	936.5	941.9
77.5°	667.4	718.5	742.7	737.4	745.4	707.8	691.6	648.5	592.0	570.5	570.5
80°	403.7	433.3	452.1	457.5	465.6	438.6	411.7	374.1	349.8	325.6	325.6
82.5°	244.9	263.7	277.2	277.2	285.3	255.7	234.1	207.2	196.4	174.9	174.9
85°	123.8	137.2	142.6	139.9	134.6	110.3	102.3	88.8	83.4	72.7	72.7
87.5°	29.6	37.7	37.7	26.9	26.9	13.5	8.1	2.7	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)