

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: P640316

Luminaire Tested: GWS-SA5D-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640316
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26941.4 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

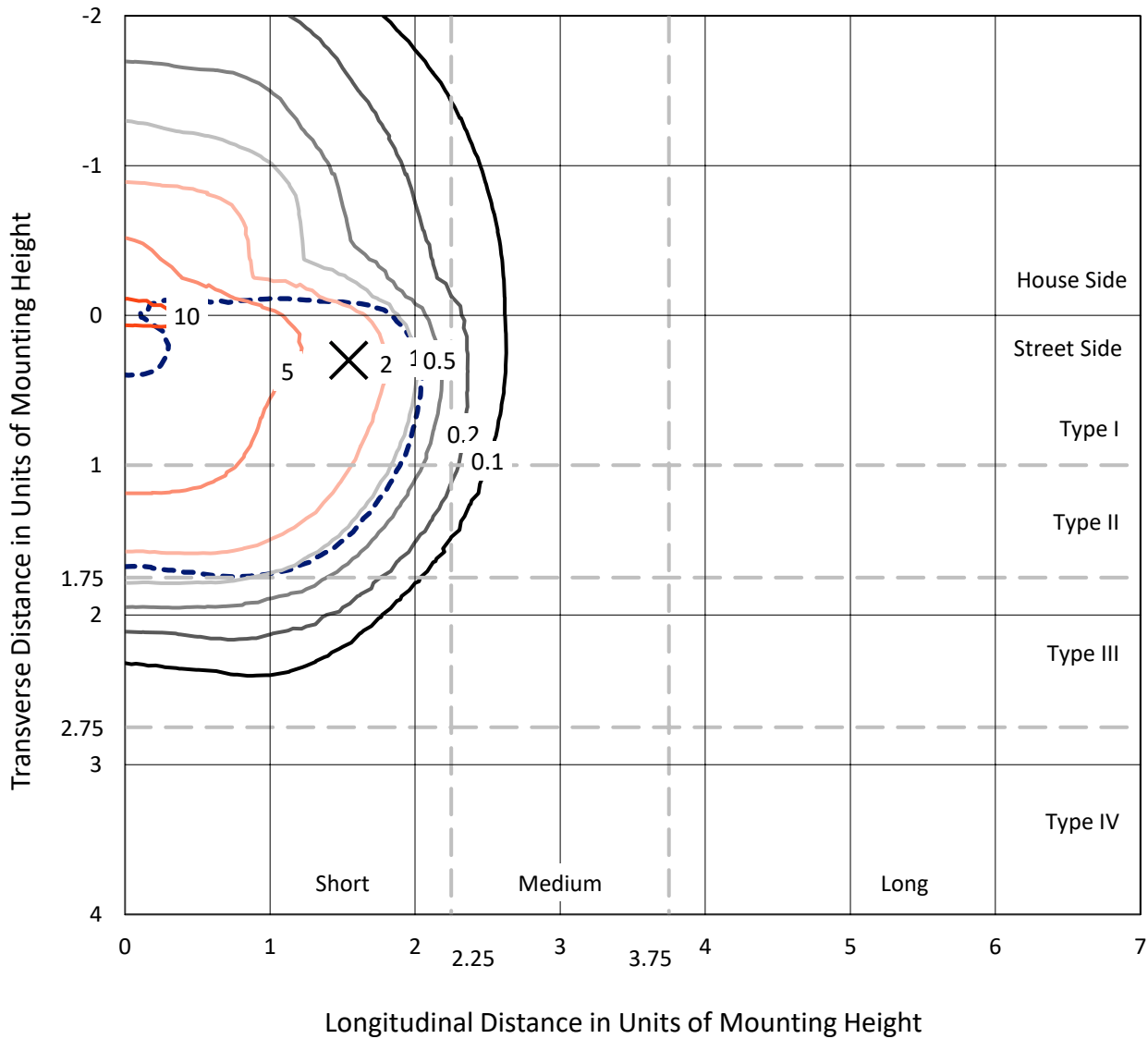
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

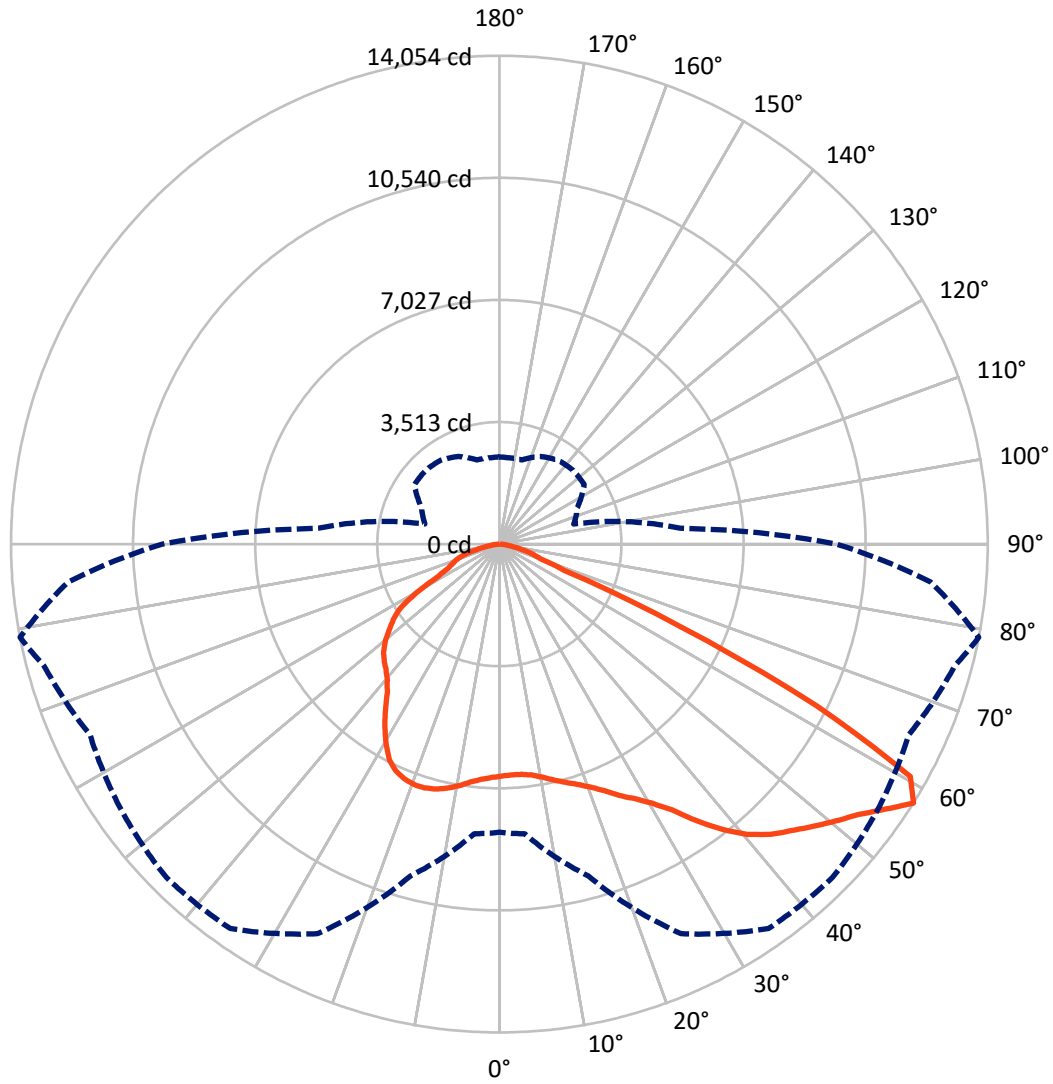
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	8008.4	0.0	8008.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	18933.0	0.0	18933.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	26941.4	0.0	26941.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.3	2.3
10°-20°	1718.3	6.4
20°-30°	2912.6	10.8
30°-40°	4458.1	16.5
40°-50°	5944.5	22.1
50°-60°	6865.4	25.5
60°-70°	3567.5	13.2
70°-80°	758.4	2.8
80°-90°	98.2	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°	26941.4	100.0
0°-180°	26941.4	100.0

Coefficient of Utilization



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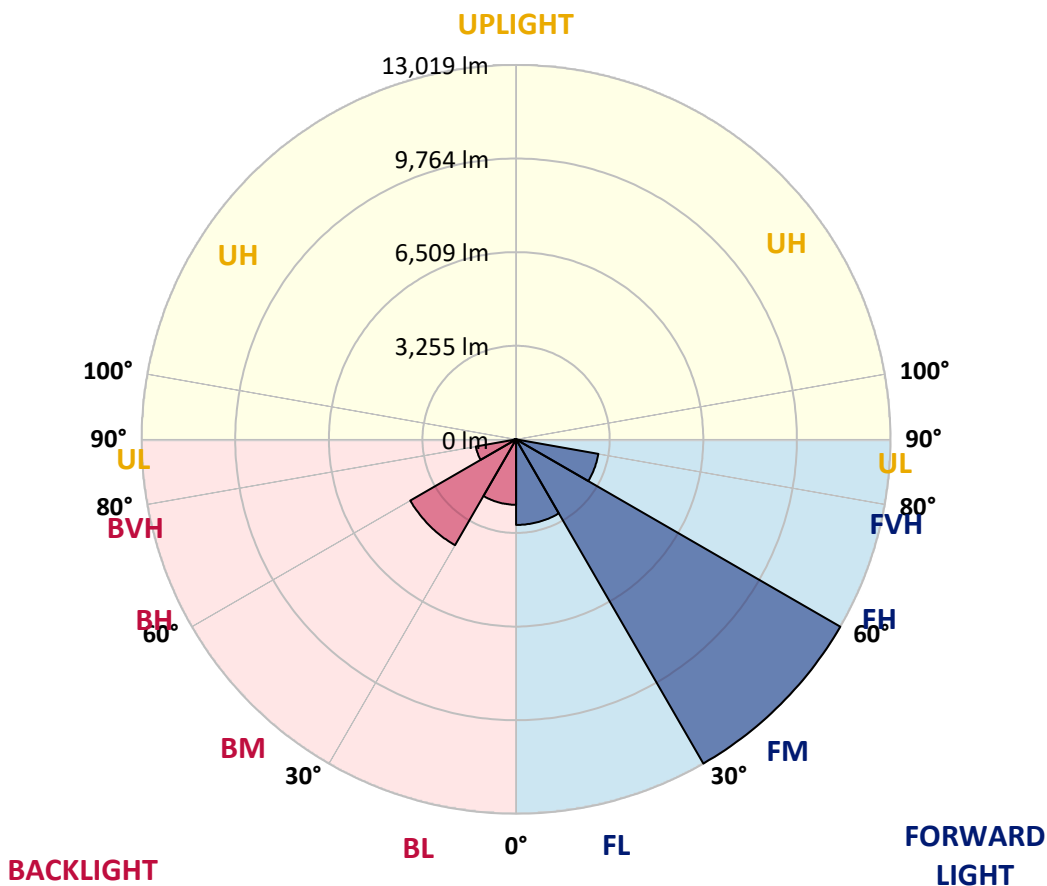
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2974.9	11.0			
FM (30°-60°)	13018.8	48.3			
FH (60°-80°)	2904.9	10.8			G2/5000
FVH (80°-90°)	34.2	0.1			G1/100
BL (0°-30°)	2274.3	8.4	B3/2500		
BM (30°-60°)	4249.2	15.8	B3/5000		
BH (60°-80°)	1420.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.2			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°	65°	75°	79°	85°
0°	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7
2.5°	6372.7	6359.5	6363.9	6381.5	6447.6	6496.1	6546.7	6593.0	6637.1	6650.3	6661.3
5°	6145.8	6121.6	6128.2	6156.8	6233.9	6315.4	6405.8	6515.9	6621.6	6656.9	6703.1
7.5°	5985.0	5980.6	5991.6	6035.7	6117.2	6194.3	6311.0	6467.4	6650.3	6709.7	6791.2
10°	5771.3	5762.5	5806.6	5896.9	6031.3	6154.6	6293.4	6478.4	6734.0	6822.1	6947.6
12.5°	5601.7	5597.3	5643.6	5769.1	5941.0	6137.0	6328.7	6535.7	6846.3	6967.5	7121.7
15°	5700.9	5681.0	5683.2	5771.3	5925.5	6156.8	6416.8	6639.3	6958.7	7112.9	7311.1
17.5°	5989.4	5954.2	5927.7	5943.2	6031.3	6271.4	6551.1	6778.0	7088.6	7269.3	7511.6
20°	6388.1	6368.3	6295.6	6247.2	6267.0	6478.4	6762.6	6974.1	7258.2	7460.9	7720.8
22.5°	6923.4	6875.0	6775.8	6698.7	6639.3	6804.5	7066.6	7249.4	7493.9	7705.4	7976.4
25°	7586.5	7516.0	7359.6	7238.4	7110.7	7280.3	7513.8	7652.5	7817.8	8013.8	8271.5
27.5°	8262.7	8203.2	8029.2	7866.2	7707.6	7813.3	8090.9	8170.2	8152.6	8295.8	8516.0
30°	8983.0	8908.1	8742.9	8566.7	8361.8	8430.1	8679.1	8718.7	8531.5	8650.4	8800.2
32.5°	9743.0	9670.3	9527.1	9322.3	9091.0	9117.4	9185.7	9223.1	9044.7	9113.0	9227.5
35°	10516.2	10447.9	10302.5	10099.9	9930.2	9769.4	9597.6	9747.4	9643.9	9776.0	9767.2
37.5°	11223.3	11155.0	11064.7	10908.3	10617.5	10300.3	9903.8	10088.8	10249.7	10417.1	10388.4
40°	11701.3	11655.0	11677.1	11652.8	11278.4	10650.6	10053.6	10256.3	10694.6	10981.0	10965.6
42.5°	12113.2	12067.0	12194.7	12287.2	11846.7	10974.4	10126.3	10320.1	10978.8	11425.9	11403.9
45°	12296.1	12282.8	12494.3	12787.3	12366.5	11318.0	10313.5	10452.3	11194.7	11767.4	11683.7
47.5°	12078.0	12124.2	12540.6	13036.2	12798.3	11725.5	10696.8	10732.1	11476.6	12137.5	11901.8
50°	11644.0	11745.4	12307.1	13042.8	13113.3	12185.9	11227.7	11139.6	11855.5	12531.8	12016.3
52.5°	11011.8	11117.6	12033.9	12992.1	13293.9	12719.0	11934.8	11809.2	12333.5	12926.1	12036.1
55°	9560.2	9703.4	11408.3	12877.6	13470.2	13203.6	12732.2	12476.7	12950.3	13467.9	12232.2
57.5°	8293.6	8368.5	9884.0	12368.7	13505.4	13560.5	13300.5	12996.5	13562.7	14053.9	12452.5
60°	6086.4	6104.0	7467.5	10234.2	12423.8	13353.4	13254.3	12802.7	13271.9	13584.7	11443.6
62.5°	3438.6	3440.8	4529.0	6830.9	9280.4	10884.1	10945.7	10547.0	10152.7	10245.2	7965.3
65°	1290.8	1412.0	2068.4	3357.1	5350.6	6425.6	6681.1	6773.6	6117.2	5709.7	4271.2
67.5°	863.5	892.1	1207.1	1727.0	2381.2	2749.1	3075.1	3083.9	2255.7	2011.2	1682.9
70°	658.6	687.3	949.4	1235.8	1207.1	1114.6	1204.9	1171.9	1211.5	1244.6	1279.8
72.5°	491.2	519.9	735.7	872.3	724.7	713.7	808.4	898.7	982.5	1017.7	1072.8
75°	326.0	348.0	495.6	467.0	400.9	473.6	590.4	680.7	729.1	771.0	812.8
77.5°	207.1	222.5	264.3	213.7	222.5	277.6	343.6	425.1	471.4	513.3	535.3
80°	94.7	92.5	90.3	101.3	125.6	163.0	207.1	255.5	290.8	308.4	321.6
82.5°	37.4	41.9	46.3	55.1	68.3	88.1	116.7	149.8	178.4	182.8	193.8
85°	15.4	17.6	19.8	24.2	30.8	39.7	48.5	68.3	85.9	92.5	99.1
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	6.6	11.0	19.8	22.0	24.2
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°	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7	6676.7
2.5°	6720.8	6692.1	6740.6	6773.6	6804.5	6771.4	6760.4	6731.8	6727.4	6727.4	6742.8
5°	6782.4	6762.6	6813.3	6833.1	6830.9	6758.2	6714.1	6656.9	6628.2	6628.2	6632.6
7.5°	6892.6	6881.6	6910.2	6879.4	6808.9	6661.3	6515.9	6394.7	6313.2	6271.4	6284.6
10°	7075.4	7062.2	7038.0	6923.4	6720.8	6414.6	6117.2	5896.9	5764.7	5689.8	5694.3
12.5°	7253.8	7231.8	7145.9	6892.6	6476.2	5989.4	5599.5	5352.8	5207.4	5119.3	5099.5
15°	7449.9	7392.6	7207.6	6734.0	6077.5	5469.6	5062.0	4795.5	4639.1	4586.2	4584.0
17.5°	7637.1	7535.8	7201.0	6452.0	5599.5	4925.5	4515.8	4350.5	4324.1	4348.3	4354.9
20°	7826.6	7663.6	7128.3	6062.1	5031.2	4383.6	4172.1	4240.4	4339.5	4405.6	4421.0
22.5°	8022.6	7769.3	6963.1	5559.9	4432.0	4017.9	4106.0	4255.8	4379.2	4467.3	4476.1
25°	8242.9	7868.4	6716.4	4945.3	3951.8	3916.6	4090.6	4249.2	4381.4	4482.7	4500.3
27.5°	8368.5	7870.6	6370.5	4313.1	3731.6	3876.9	4053.2	4203.0	4335.1	4445.3	4465.1
30°	8491.8	7811.1	5822.0	3799.8	3667.7	3830.7	3989.3	4128.1	4253.6	4361.6	4385.8
32.5°	8665.8	7756.1	5189.8	3504.7	3630.2	3786.6	3916.6	4039.9	4136.9	4185.3	4198.5
35°	8881.7	7685.6	4518.0	3376.9	3606.0	3751.4	3865.9	3932.0	3806.4	3780.0	3808.6
37.5°	9183.5	7619.5	3848.3	3321.8	3590.6	3738.2	3839.5	3669.9	3515.7	3454.0	3476.0
40°	9509.5	7582.1	3394.5	3277.8	3597.2	3751.4	3729.3	3478.2	3255.7	3125.8	3121.4
42.5°	9787.1	7524.8	3103.8	3249.1	3614.8	3802.0	3579.6	3308.6	2978.2	2901.1	2903.3
45°	9974.3	7379.4	2949.6	3218.3	3630.2	3813.1	3509.1	3075.1	2839.4	2791.0	2788.8
47.5°	10051.4	7115.1	2850.4	3169.8	3628.0	3722.7	3365.9	2978.2	2742.5	2729.3	2738.1
50°	10000.7	6681.1	2749.1	3075.1	3575.2	3628.0	3200.7	2892.3	2676.4	2749.1	2802.0
52.5°	9813.5	6119.4	2627.9	2945.2	3480.4	3520.1	3117.0	2839.4	2627.9	2724.9	2766.7
55°	9765.0	5663.4	2473.7	2775.5	3339.5	3328.4	3028.9	2813.0	2594.9	2557.5	2564.1
57.5°	9701.2	5218.4	2218.2	2471.5	2982.6	3000.2	2945.2	2782.1	2509.0	2498.0	2509.0
60°	8427.9	4000.3	1978.1	2132.3	2449.5	2544.2	2850.4	2724.9	2370.2	2324.0	2321.8
62.5°	5504.8	2423.1	1760.0	1859.2	1995.7	2105.9	2599.3	2559.7	2218.2	2189.6	2209.4
65°	2960.6	1727.0	1601.4	1660.9	1735.8	1819.5	2154.3	2279.9	2004.6	1903.2	1905.4
67.5°	1513.3	1469.3	1482.5	1524.3	1581.6	1623.5	1738.0	1848.2	1709.4	1623.5	1621.3
70°	1295.2	1330.5	1350.3	1374.6	1412.0	1405.4	1416.4	1436.2	1425.2	1383.4	1381.2
72.5°	1103.6	1158.7	1163.1	1167.5	1180.7	1149.9	1130.0	1097.0	1099.2	1105.8	1108.0
75°	839.3	892.1	905.4	898.7	912.0	872.3	845.9	812.8	773.2	766.6	771.0
77.5°	546.3	588.1	608.0	603.6	610.2	579.3	566.1	530.9	484.6	467.0	467.0
80°	330.4	354.7	370.1	374.5	381.1	359.1	337.0	306.2	286.4	266.5	266.5
82.5°	200.5	215.9	226.9	226.9	233.5	209.3	191.6	169.6	160.8	143.2	143.2
85°	101.3	112.3	116.7	114.5	110.1	90.3	83.7	72.7	68.3	59.5	59.5
87.5°	24.2	30.8	30.8	22.0	22.0	11.0	6.6	2.2	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)