

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: P638250

Luminaire Tested: GWS-SA4E-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26064.7 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

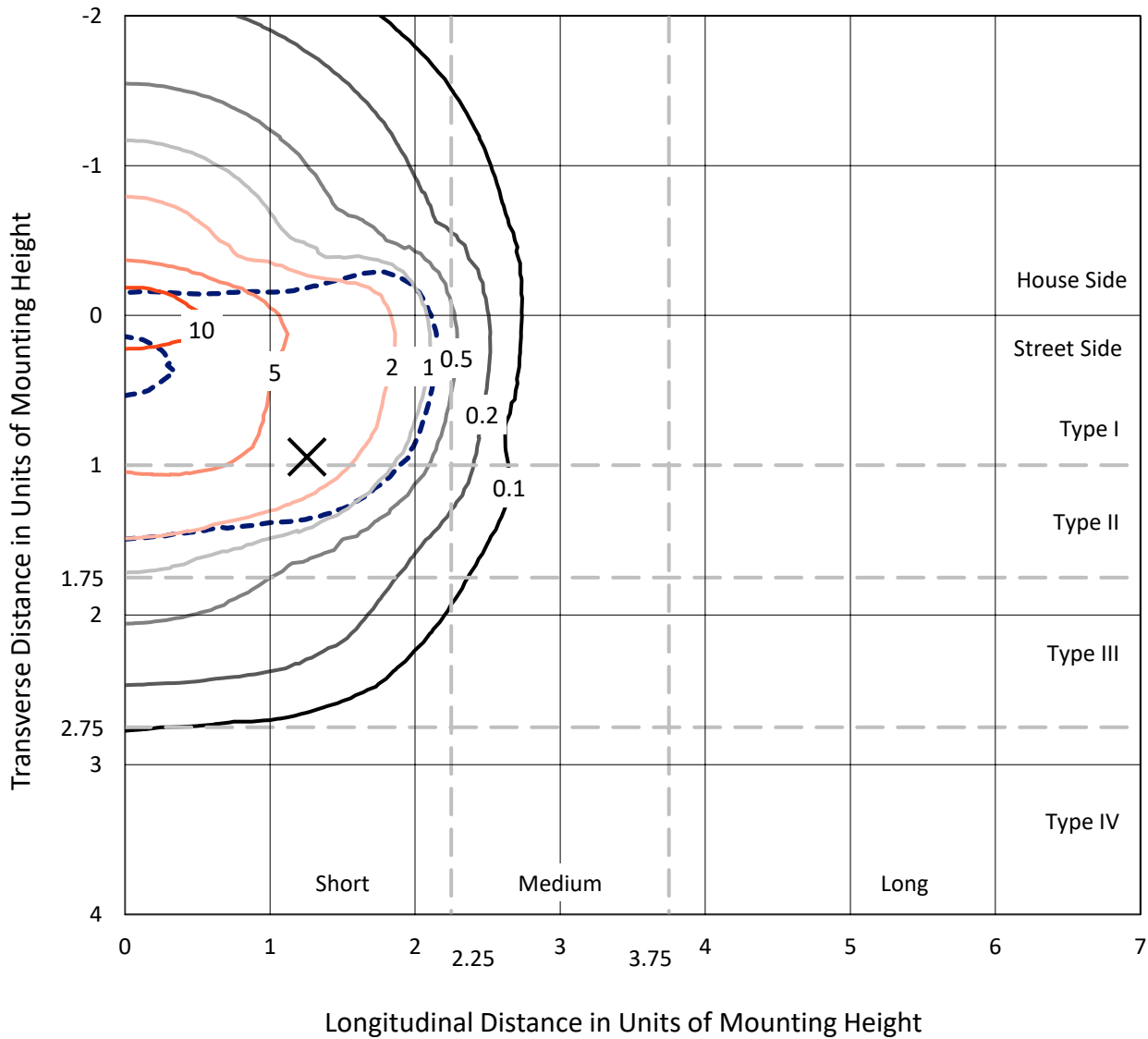
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

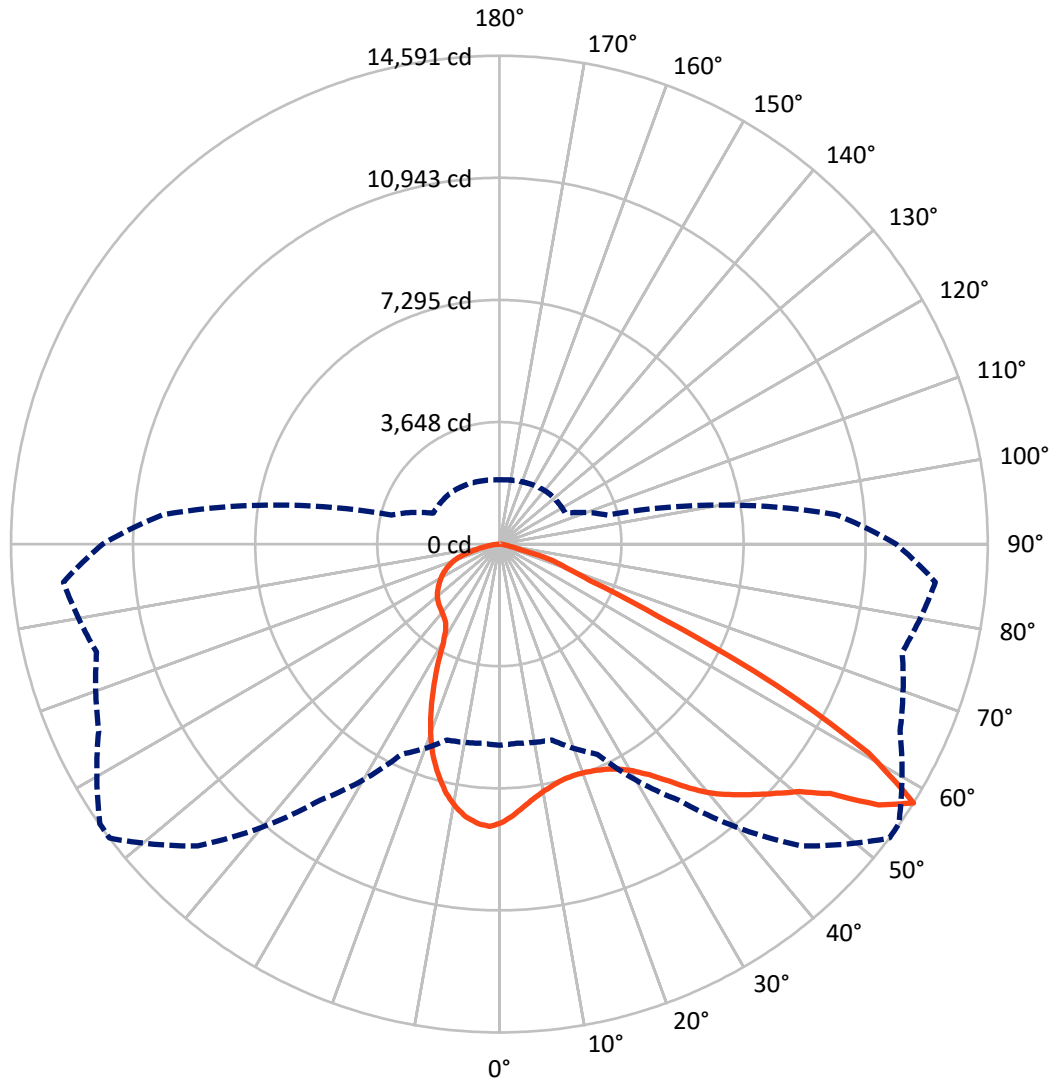
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8149.5	0.0	8149.5
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	17915.2	0.0	17915.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	26064.7	0.0	26064.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.7	2.9
10°-20°	1974.6	7.6
20°-30°	2909.3	11.2
30°-40°	4072.3	15.6
40°-50°	5353.4	20.5
50°-60°	6276.8	24.1
60°-70°	3697.7	14.2
70°-80°	919.9	3.5
80°-90°	107.9	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°	26064.7	100.0
0°-180°	26064.7	100.0

Coefficient of Utilization



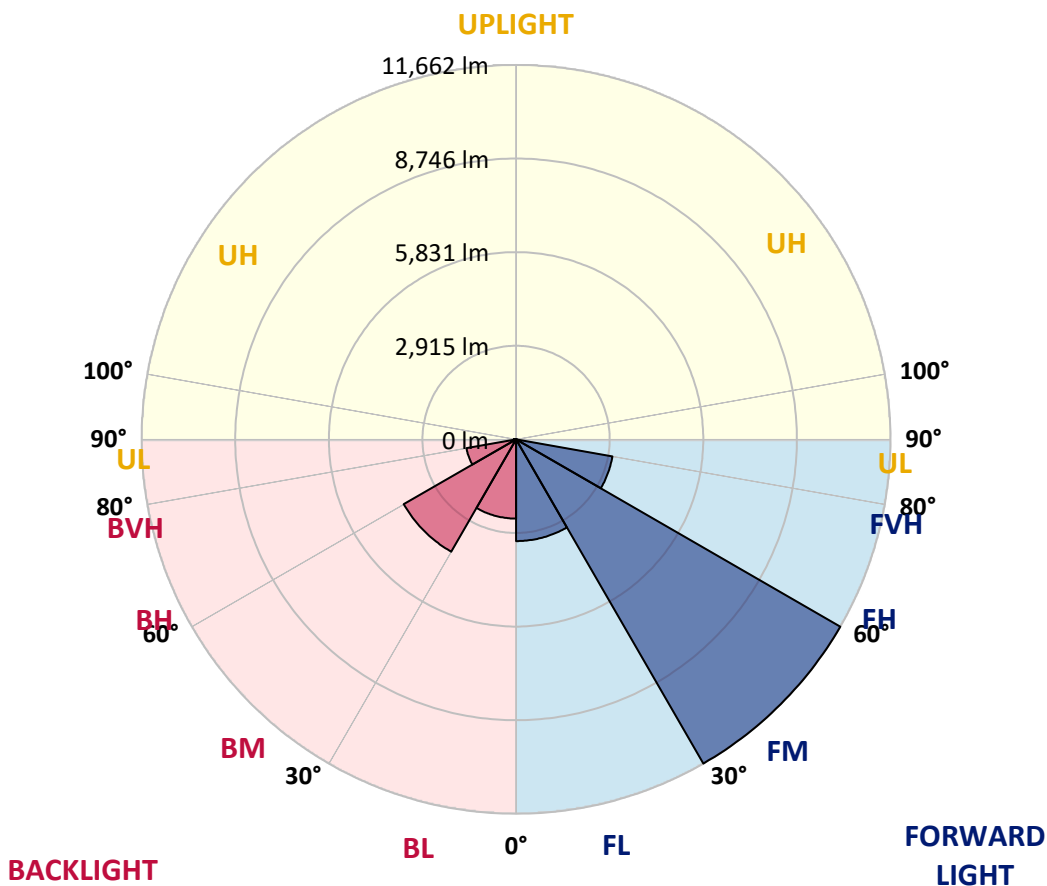
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3169.0	12.2			
FM (30°-60°)	11661.6	44.7			
FH (60°-80°)	3048.6	11.7			G2/5000
FVH (80°-90°)	36.1	0.1			G1/100
BL (0°-30°)	2467.7	9.5	B3/2500		
BM (30°-60°)	4040.9	15.5	B3/5000		
BH (60°-80°)	1569.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	71.8	0.3			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°	53°	55°	65°	75°	85°
0°	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2
2.5°	7844.9	7866.9	7871.2	7939.3	7943.6	8042.4	8108.2	8095.0	8163.0	8246.4	8312.2
5°	7469.8	7472.0	7493.9	7575.1	7619.0	7748.4	7858.1	7858.1	7989.7	8160.8	8307.8
7.5°	7160.5	7158.3	7178.0	7268.0	7340.4	7496.1	7645.3	7662.8	7847.1	8097.2	8336.3
10°	6873.1	6888.4	6910.4	7020.1	7112.2	7305.3	7482.9	7511.5	7744.0	8053.3	8375.8
12.5°	6688.8	6691.0	6723.9	6846.8	6965.2	7171.4	7357.9	7393.0	7660.6	8011.6	8404.3
15°	6570.3	6572.5	6607.6	6743.6	6881.9	7090.3	7281.1	7320.6	7612.4	8005.1	8459.2
17.5°	6517.7	6515.5	6548.4	6684.4	6835.8	7053.0	7257.0	7305.3	7634.3	8055.5	8555.7
20°	6517.7	6519.9	6537.4	6660.3	6813.8	7044.2	7281.1	7340.4	7719.9	8169.6	8704.9
22.5°	6609.8	6618.6	6627.4	6710.7	6831.4	7057.4	7344.7	7423.7	7904.2	8360.5	8900.1
25°	6789.7	6791.9	6800.7	6868.7	6923.5	7094.7	7450.0	7568.5	8191.5	8639.1	9145.8
27.5°	7031.0	7061.7	7070.5	7114.4	7114.4	7186.8	7614.6	7785.7	8579.8	9040.5	9459.5
30°	7368.9	7379.8	7395.2	7443.5	7390.8	7360.1	7855.9	8075.3	9029.6	9525.3	9836.9
32.5°	7665.0	7689.2	7772.5	7851.5	7757.2	7660.6	8211.3	8470.1	9461.7	10029.9	10238.3
35°	7917.3	7976.5	8136.7	8312.2	8246.4	8149.9	8682.9	8952.8	9817.1	10391.9	10593.7
37.5°	8222.2	8268.3	8487.7	8772.9	8832.1	8786.0	9257.7	9450.8	10054.0	10484.0	10786.8
40°	8531.6	8601.8	8884.8	9279.6	9505.6	9538.5	9788.6	9918.0	10135.2	10304.1	10749.5
42.5°	8847.5	8968.1	9356.4	9817.1	10218.6	10293.2	10236.1	10291.0	10108.9	10056.2	10576.2
45°	9233.6	9376.2	9814.9	10402.9	10931.6	11047.8	10674.9	10624.4	10104.5	9961.9	10468.7
47.5°	9689.9	9832.5	10251.5	10935.9	11611.6	11697.2	11124.6	11032.5	10258.1	10106.7	10613.5
50°	10093.5	10192.3	10567.4	11333.0	12245.6	12296.1	11620.4	11508.5	10639.8	10508.2	11065.4
52.5°	9683.3	9672.3	10067.2	11010.5	12574.7	13182.4	12383.8	12276.3	11376.9	11175.1	11765.2
55°	8215.7	8090.6	8443.8	9371.8	11655.5	13969.9	13752.7	13537.8	12359.7	11846.4	12421.1
57.5°	6006.5	5971.4	6057.0	6927.9	9336.7	12750.2	14590.8	14571.0	13208.7	12460.6	13074.9
60°	4696.9	4644.2	4416.1	4440.2	6364.1	9959.7	12662.4	13243.8	13735.2	12829.2	13531.2
62.5°	4170.4	4130.9	4012.4	3685.5	3790.8	6677.8	9281.8	9814.9	12002.1	11330.8	11622.6
65°	3453.0	3442.0	3540.7	3527.6	3176.6	3687.7	5238.7	5776.2	7546.6	7640.9	7546.6
67.5°	2509.7	2489.9	2740.0	3233.6	3058.1	2783.9	2919.9	3106.4	3869.8	3474.9	3128.3
70°	1632.2	1603.6	1748.4	2336.4	2737.8	2426.3	2103.8	2073.1	2128.0	1322.8	1430.3
72.5°	1094.7	1061.8	1059.6	1285.5	1654.1	1634.4	1630.0	1614.6	1441.3	1044.2	1158.3
75°	609.9	583.5	577.0	555.0	592.3	603.3	642.8	664.7	719.6	792.0	877.5
77.5°	103.1	100.9	127.2	162.3	223.8	287.4	355.4	375.1	462.9	548.4	603.3
80°	57.0	59.2	76.8	94.3	125.0	171.1	219.4	232.5	285.2	331.3	375.1
82.5°	30.7	30.7	39.5	50.5	68.0	89.9	118.5	129.4	164.5	193.1	223.8
85°	11.0	11.0	15.4	19.7	28.5	37.3	46.1	52.7	72.4	98.7	111.9
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.8	8.8	11.0	19.7	28.5
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°	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2	8323.2
2.5°	8367.0	8307.8	8389.0	8426.3	8439.4	8448.2	8391.2	8351.7	8338.5	8296.8	8272.7
5°	8397.8	8358.3	8435.0	8435.0	8380.2	8323.2	8206.9	8125.7	8068.7	8000.7	7989.7
7.5°	8450.4	8421.9	8463.6	8378.0	8239.8	8086.2	7884.4	7726.5	7599.2	7515.9	7518.0
10°	8520.6	8485.5	8452.6	8261.7	8009.5	7726.5	7417.1	7186.8	6976.2	6879.7	6827.0
12.5°	8566.7	8516.2	8378.0	8062.1	7691.4	7311.8	6875.3	6533.0	6228.1	6089.9	6078.9
15°	8623.7	8531.6	8255.2	7803.2	7287.7	6770.0	6208.4	5732.3	5319.9	5104.9	5093.9
17.5°	8698.3	8546.9	8108.2	7507.1	6862.1	6098.7	5392.3	4793.4	4354.6	4187.9	4216.4
20°	8803.6	8564.5	7941.4	7178.0	6333.4	5335.2	4455.5	3904.9	3736.0	3725.0	3703.1
22.5°	8922.1	8575.4	7757.2	6809.5	5692.8	4521.4	3681.1	3446.4	3444.2	3499.1	3512.2
25°	9055.9	8584.2	7548.8	6379.5	4999.6	3709.7	3255.6	3185.4	3240.2	3343.3	3356.5
27.5°	9227.0	8601.8	7296.5	5907.8	4262.5	3205.1	3020.8	3003.3	3069.1	3165.6	3161.2
30°	9479.3	8665.4	7028.8	5366.0	3505.6	2966.0	2878.2	2880.4	2906.7	2952.8	2959.4
32.5°	9736.0	8764.1	6767.8	4756.1	3071.3	2830.0	2790.5	2786.1	2786.1	2805.8	2810.2
35°	9979.5	8876.0	6484.8	4119.9	2860.7	2751.0	2724.7	2711.5	2704.9	2700.5	2693.9
37.5°	10115.5	8930.8	6208.4	3492.5	2748.8	2698.3	2672.0	2654.5	2630.3	2612.8	2608.4
40°	10056.2	8867.2	5888.1	3023.0	2680.8	2647.9	2617.2	2593.0	2560.1	2544.8	2536.0
42.5°	9858.8	8669.8	5539.3	2801.4	2625.9	2593.0	2555.7	2516.3	2494.3	2481.2	2479.0
45°	9650.4	8430.7	5118.1	2672.0	2573.3	2533.8	2489.9	2446.1	2421.9	2415.3	2413.1
47.5°	9643.8	8312.2	4670.5	2568.9	2509.7	2470.2	2415.3	2371.5	2345.1	2336.4	2327.6
50°	9933.4	8432.9	4166.0	2479.0	2443.9	2402.2	2340.8	2292.5	2259.6	2248.6	2246.4
52.5°	10534.5	8887.0	3714.1	2389.0	2356.1	2307.8	2257.4	2209.1	2169.6	2149.9	2147.7
55°	11183.8	9463.9	3433.2	2296.9	2253.0	2211.3	2165.3	2112.6	2068.7	2038.0	2033.6
57.5°	11855.1	10093.5	3347.7	2180.6	2147.7	2119.2	2064.3	2007.3	1956.8	1928.3	1921.7
60°	12408.0	10635.4	3507.8	2057.8	2040.2	2002.9	1952.5	1897.6	1862.5	1840.6	1836.2
62.5°	10387.5	8658.8	2832.2	1923.9	1923.9	1884.4	1827.4	1787.9	1763.8	1748.4	1744.0
65°	6592.3	5361.6	1932.7	1790.1	1787.9	1735.3	1687.0	1660.7	1649.7	1625.6	1621.2
67.5°	2871.6	2450.4	1651.9	1654.1	1645.3	1588.3	1540.0	1520.3	1498.3	1472.0	1469.8
70°	1489.6	1518.1	1478.6	1502.7	1487.4	1419.4	1373.3	1342.6	1296.5	1270.2	1272.4
72.5°	1202.2	1232.9	1276.8	1314.1	1281.2	1226.3	1153.9	1116.6	1057.4	1028.9	1031.1
75°	917.0	949.9	991.6	1031.1	1004.7	936.7	890.7	853.4	785.4	752.5	759.0
77.5°	631.8	649.4	699.8	697.6	688.8	669.1	601.1	557.2	487.0	447.5	451.9
80°	392.7	403.7	427.8	438.8	434.4	408.0	353.2	320.3	278.6	254.5	256.7
82.5°	236.9	243.5	265.4	267.6	265.4	245.7	204.0	179.9	153.6	140.4	140.4
85°	120.7	125.0	138.2	138.2	125.0	105.3	94.3	83.4	68.0	61.4	61.4
87.5°	32.9	32.9	41.7	35.1	28.5	26.3	13.2	11.0	4.4	2.2	2.2
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)