

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: P640230

Luminaire Tested: GWS-SA5D-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640230
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-SA5D-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 25586.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

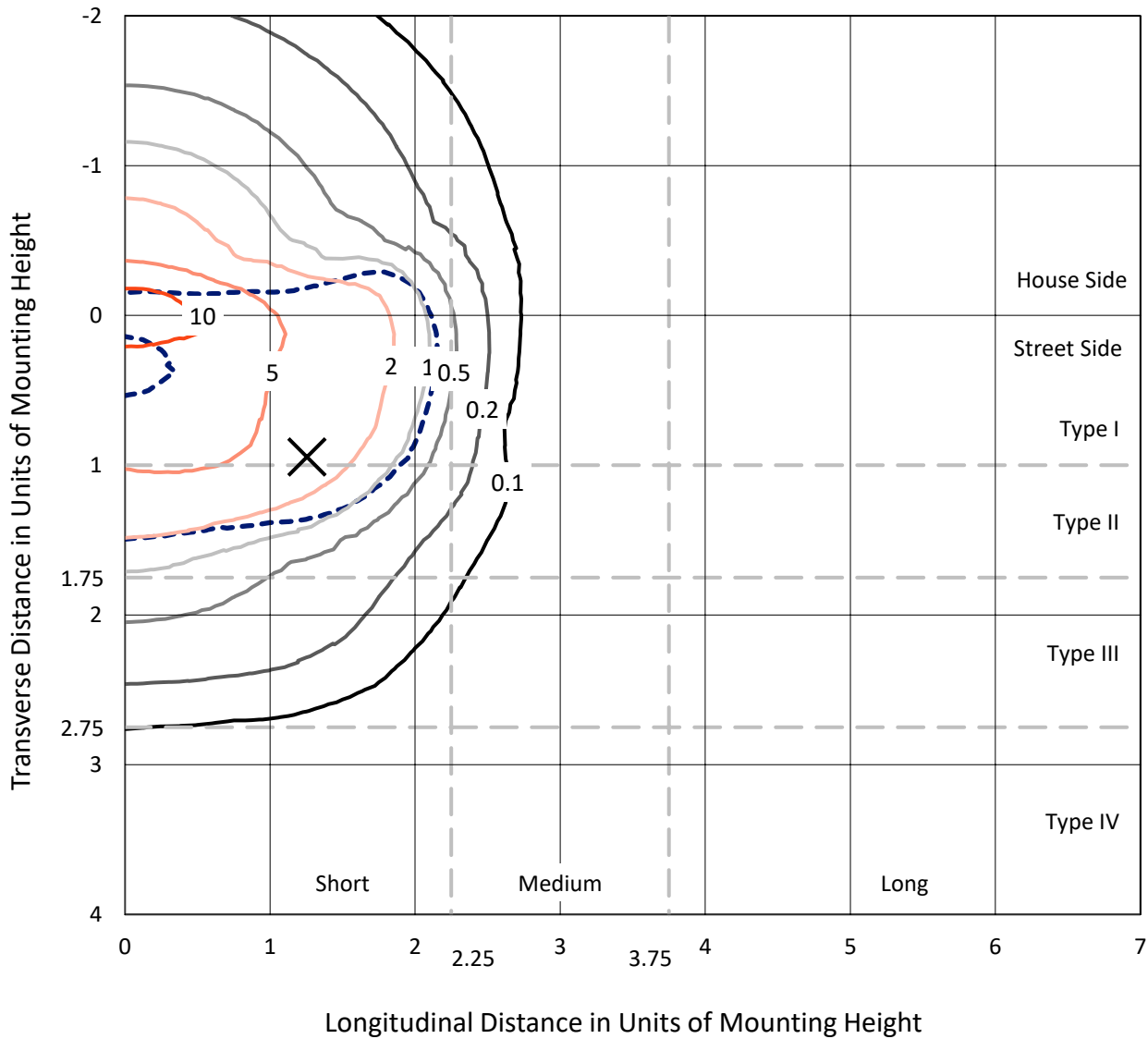
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640230
 CATALOG NUMBER: GWS-SA5D-740-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

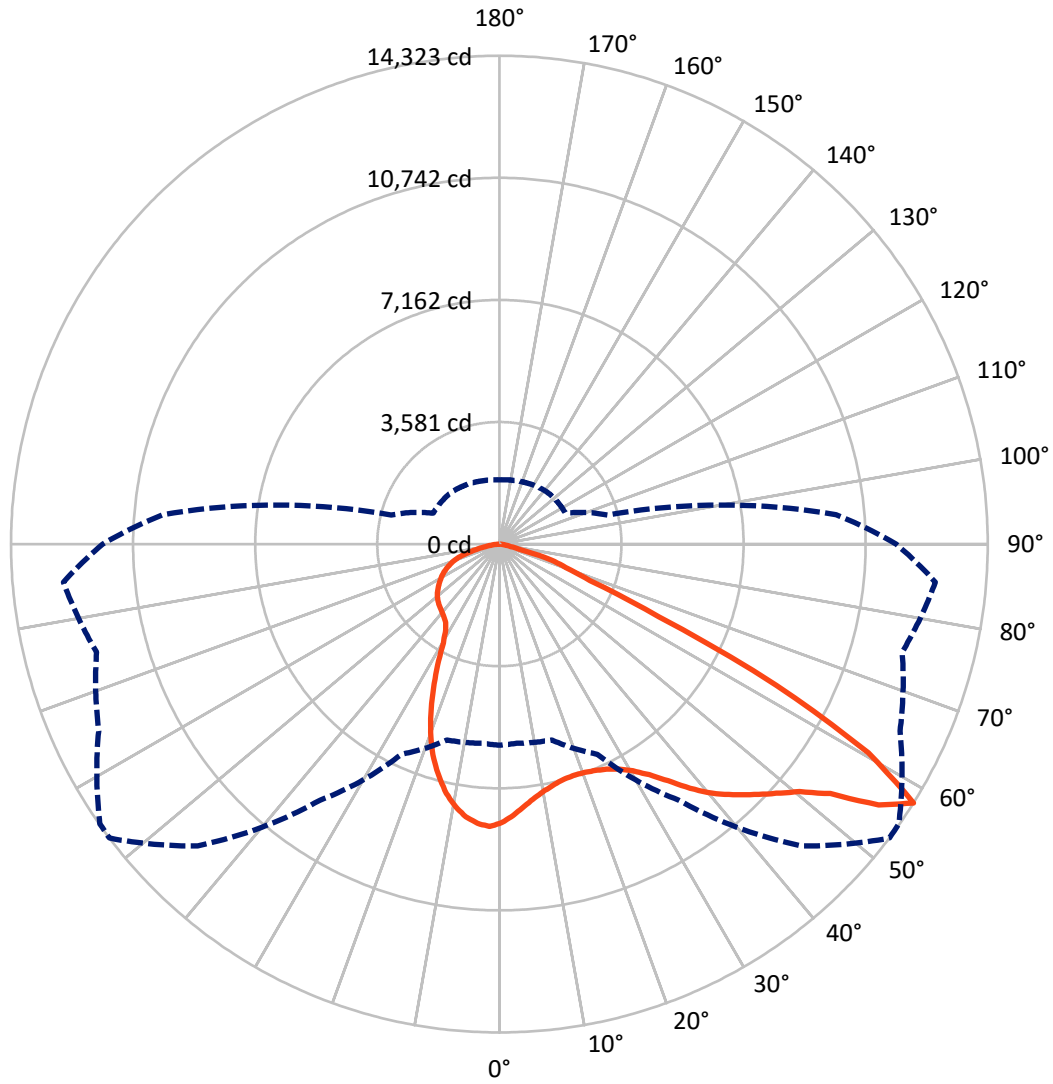
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

REPORT NUMBER: P640230
CATALOG NUMBER: GWS-SA5D-740-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640230

CATALOG NUMBER: GWS-SA5D-740-U-SL2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7999.9	0.0	7999.9
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	17586.4	0.0	17586.4
	% Fixture	68.7	0.0	68.7
Total	Lumens	25586.3	0.0	25586.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.8	2.9
10°-20°	1938.4	7.6
20°-30°	2856.0	11.2
30°-40°	3997.6	15.6
40°-50°	5255.1	20.5
50°-60°	6161.6	24.1
60°-70°	3629.9	14.2
70°-80°	903.0	3.5
80°-90°	105.9	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°	25586.3	100.0
0°-180°	25586.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640230

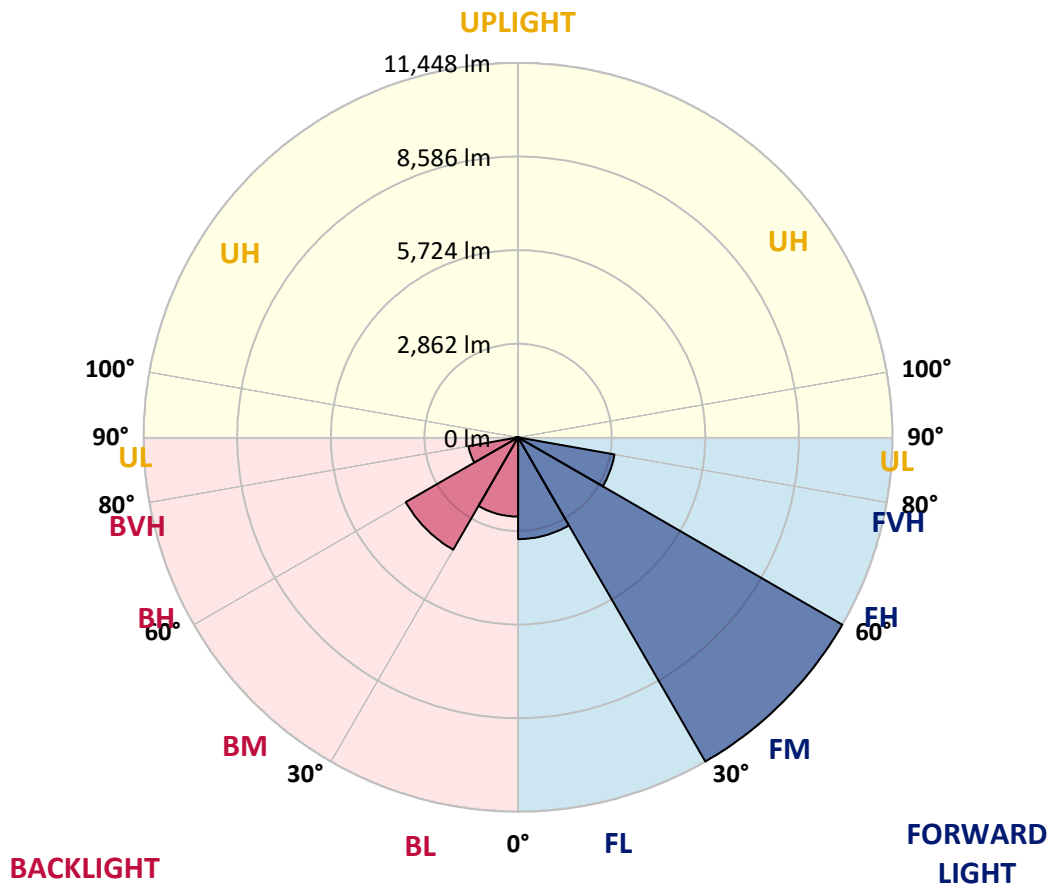
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3110.8	12.2			
FM (30°-60°)	11447.5	44.7			
FH (60°-80°)	2992.6	11.7			G2/5000
FVH (80°-90°)	35.5	0.1			G1/100
BL (0°-30°)	2422.4	9.5	B3/2500		
BM (30°-60°)	3966.8	15.5	B3/5000		
BH (60°-80°)	1540.2	6.0	B3/2500		G3/2500
BVH (80°-90°)	70.5	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





REPORT NUMBER: P640230

CATALOG NUMBER: GWS-SA5D-740-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4
2.5°	7700.9	7722.5	7726.8	7793.5	7797.8	7894.7	7959.4	7946.4	8013.2	8095.0	8159.6
5°	7332.7	7334.8	7356.4	7436.1	7479.1	7606.2	7713.9	7713.9	7843.1	8011.0	8155.3
7.5°	7029.0	7026.9	7046.3	7134.6	7205.6	7358.5	7505.0	7522.2	7703.1	7948.6	8183.3
10°	6746.9	6762.0	6783.5	6891.2	6981.7	7171.2	7345.6	7373.6	7601.9	7905.5	8222.1
12.5°	6566.0	6568.2	6600.5	6721.1	6837.4	7039.8	7222.9	7257.3	7520.0	7864.6	8250.1
15°	6449.7	6451.9	6486.4	6619.9	6755.5	6960.1	7147.5	7186.2	7472.7	7858.1	8303.9
17.5°	6398.1	6395.9	6428.2	6561.7	6710.3	6923.5	7123.8	7171.2	7494.2	7907.7	8398.7
20°	6398.1	6400.2	6417.4	6538.0	6688.8	6914.9	7147.5	7205.6	7578.2	8019.7	8545.1
22.5°	6488.5	6497.1	6505.7	6587.6	6706.0	6927.8	7209.9	7287.5	7759.1	8207.0	8736.8
25°	6665.1	6667.3	6675.9	6742.6	6796.5	6964.4	7313.3	7429.6	8041.2	8480.5	8978.0
27.5°	6902.0	6932.1	6940.7	6983.8	6983.8	7054.9	7474.8	7642.8	8422.4	8874.6	9285.9
30°	7233.6	7244.4	7259.5	7306.8	7255.2	7225.0	7711.7	7927.1	8863.8	9350.5	9656.3
32.5°	7524.3	7548.0	7629.9	7707.4	7614.8	7520.0	8060.6	8314.7	9288.1	9845.8	10050.4
35°	7772.0	7830.1	7987.3	8159.6	8095.0	8000.3	8523.6	8788.5	9636.9	10201.2	10399.3
37.5°	8071.3	8116.6	8331.9	8611.9	8670.0	8624.8	9087.8	9277.3	9869.5	10291.6	10588.8
40°	8375.0	8443.9	8721.7	9109.3	9331.1	9363.4	9608.9	9736.0	9949.2	10115.0	10552.2
42.5°	8685.1	8803.5	9184.7	9636.9	10031.0	10104.2	10048.3	10102.1	9923.3	9871.7	10382.0
45°	9064.1	9204.1	9634.8	10211.9	10730.9	10845.0	10479.0	10429.4	9919.0	9779.1	10276.5
47.5°	9512.0	9652.0	10063.3	10735.2	11398.5	11482.5	10920.4	10830.0	10069.8	9921.2	10418.7
50°	9908.3	10005.2	10373.4	11125.0	12020.9	12070.4	11407.1	11297.3	10444.5	10315.3	10862.3
52.5°	9505.6	9494.8	9882.4	10808.4	12343.9	12940.4	12156.5	12051.0	11168.1	10970.0	11549.2
55°	8064.9	7942.1	8288.8	9199.8	11441.6	13713.5	13500.3	13289.3	12132.8	11628.9	12193.1
57.5°	5896.3	5861.8	5945.8	6800.8	9165.3	12516.2	14323.0	14303.6	12966.3	12231.9	12834.9
60°	4610.7	4559.0	4335.0	4358.7	6247.3	9776.9	12430.0	13000.7	13483.1	12593.7	13282.8
62.5°	4093.8	4055.0	3938.8	3617.9	3721.3	6555.3	9111.5	9634.8	11781.8	11122.9	11409.3
65°	3389.6	3378.8	3475.8	3462.8	3118.3	3620.0	5142.6	5670.2	7408.1	7500.7	7408.1
67.5°	2463.6	2444.2	2689.7	3174.3	3002.0	2732.8	2866.3	3049.4	3798.8	3411.2	3070.9
70°	1602.2	1574.2	1716.3	2293.5	2687.6	2381.8	2065.2	2035.1	2088.9	1298.6	1404.1
72.5°	1074.6	1042.3	1040.1	1262.0	1623.7	1604.4	1600.1	1585.0	1414.9	1025.1	1137.1
75°	598.7	572.8	566.4	544.8	581.4	592.2	631.0	652.5	706.3	777.4	861.4
77.5°	101.2	99.1	124.9	159.4	219.7	282.1	348.9	368.2	454.4	538.4	592.2
80°	56.0	58.1	75.4	92.6	122.7	168.0	215.4	228.3	280.0	325.2	368.2
82.5°	30.1	30.1	38.8	49.5	66.8	88.3	116.3	127.1	161.5	189.5	219.7
85°	10.8	10.8	15.1	19.4	28.0	36.6	45.2	51.7	71.1	96.9	109.8
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.6	8.6	10.8	19.4	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640230

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4	8170.4
2.5°	8213.5	8155.3	8235.0	8271.6	8284.5	8293.1	8237.2	8198.4	8185.5	8144.6	8120.9
5°	8243.6	8204.9	8280.2	8280.2	8226.4	8170.4	8056.3	7976.6	7920.6	7853.8	7843.1
7.5°	8295.3	8267.3	8308.2	8224.2	8088.6	7937.8	7739.7	7584.6	7459.7	7377.9	7380.1
10°	8364.2	8329.8	8297.5	8110.1	7862.4	7584.6	7281.0	7054.9	6848.1	6753.4	6701.7
12.5°	8409.4	8359.9	8224.2	7914.1	7550.2	7177.6	6749.1	6413.1	6113.8	5978.1	5967.4
15°	8465.4	8375.0	8103.6	7660.0	7153.9	6645.7	6094.4	5627.1	5222.2	5011.2	5000.4
17.5°	8538.6	8390.1	7959.4	7369.3	6736.2	5986.7	5293.3	4705.4	4274.7	4111.0	4139.0
20°	8642.0	8407.3	7795.7	7046.3	6217.2	5237.3	4373.8	3833.2	3667.4	3656.7	3635.1
22.5°	8758.3	8418.0	7614.8	6684.5	5588.3	4438.4	3613.6	3383.2	3381.0	3434.8	3447.8
25°	8889.7	8426.7	7410.2	6262.4	4907.8	3641.6	3195.8	3126.9	3180.7	3281.9	3294.9
27.5°	9057.6	8443.9	7162.6	5799.4	4184.3	3146.3	2965.4	2948.1	3012.8	3107.5	3103.2
30°	9305.3	8506.3	6899.8	5267.5	3441.3	2911.5	2825.4	2827.6	2853.4	2898.6	2905.1
32.5°	9557.3	8603.3	6643.6	4668.8	3014.9	2778.0	2739.3	2735.0	2735.0	2754.3	2758.6
35°	9796.3	8713.1	6365.8	4044.3	2808.2	2700.5	2674.7	2661.7	2655.3	2651.0	2644.5
37.5°	9929.8	8766.9	6094.4	3428.4	2698.3	2648.8	2623.0	2605.7	2582.1	2564.8	2560.5
40°	9871.7	8704.5	5780.0	2967.5	2631.6	2599.3	2569.1	2545.4	2513.1	2498.1	2489.5
42.5°	9677.9	8510.7	5437.6	2750.0	2577.7	2545.4	2508.8	2470.1	2448.5	2435.6	2433.5
45°	9473.3	8275.9	5024.1	2623.0	2526.1	2487.3	2444.2	2401.2	2377.5	2371.0	2368.9
47.5°	9466.8	8159.6	4584.8	2521.8	2463.6	2424.8	2371.0	2327.9	2302.1	2293.5	2284.9
50°	9751.1	8278.1	4089.5	2433.5	2399.0	2358.1	2297.8	2250.4	2218.1	2207.3	2205.2
52.5°	10341.1	8723.8	3645.9	2345.2	2312.9	2265.5	2216.0	2168.6	2129.8	2110.4	2108.3
55°	10978.6	9290.2	3370.2	2254.7	2211.6	2170.7	2125.5	2073.8	2030.8	2000.6	1996.3
57.5°	11637.5	9908.3	3286.2	2140.6	2108.3	2080.3	2026.4	1970.5	1920.9	1892.9	1886.5
60°	12180.2	10440.2	3443.5	2020.0	2002.8	1966.1	1916.6	1862.8	1828.3	1806.8	1802.5
62.5°	10196.8	8499.9	2780.2	1888.6	1888.6	1849.9	1793.9	1755.1	1731.4	1716.3	1712.0
65°	6471.3	5263.2	1897.2	1757.3	1755.1	1703.4	1656.0	1630.2	1619.4	1595.7	1591.4
67.5°	2818.9	2405.5	1621.6	1623.7	1615.1	1559.1	1511.8	1492.4	1470.8	1445.0	1442.8
70°	1462.2	1490.2	1451.5	1475.2	1460.1	1393.3	1348.1	1317.9	1272.7	1246.9	1249.0
72.5°	1180.1	1210.3	1253.3	1289.9	1257.6	1203.8	1132.7	1096.1	1038.0	1010.0	1012.1
75°	900.2	932.5	973.4	1012.1	986.3	919.5	874.3	837.7	771.0	738.7	745.1
77.5°	620.2	637.4	687.0	684.8	676.2	656.8	590.1	547.0	478.1	439.3	443.6
80°	385.5	396.2	419.9	430.7	426.4	400.6	346.7	314.4	273.5	249.8	252.0
82.5°	232.6	239.0	260.6	262.7	260.6	241.2	200.3	176.6	150.7	137.8	137.8
85°	118.4	122.7	135.7	135.7	122.7	103.4	92.6	81.8	66.8	60.3	60.3
87.5°	32.3	32.3	40.9	34.5	28.0	25.8	12.9	10.8	4.3	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)