

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: P640725

Luminaire Tested: GWS-SA5E-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640725
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-SA5E-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: 31973.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

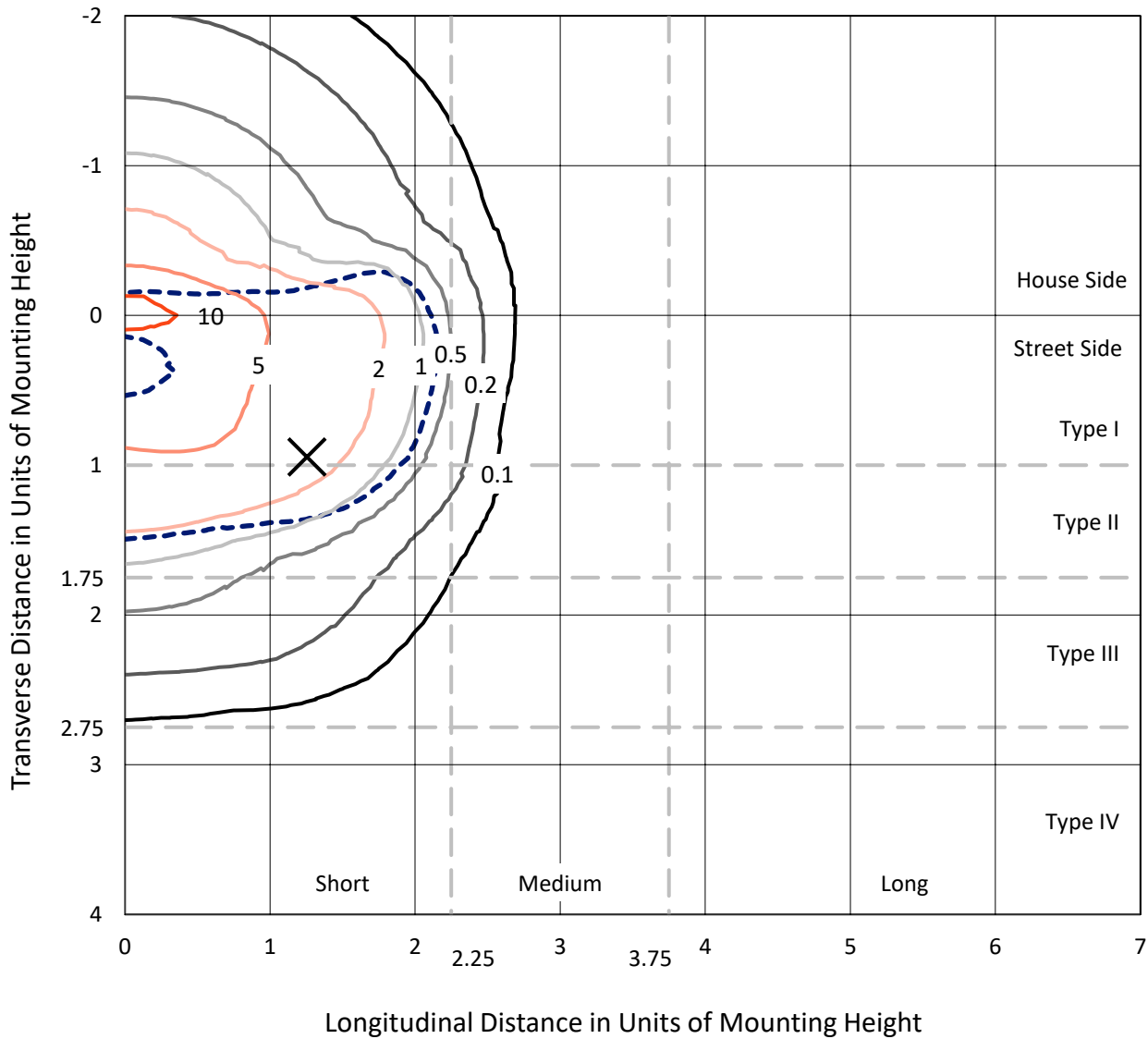
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

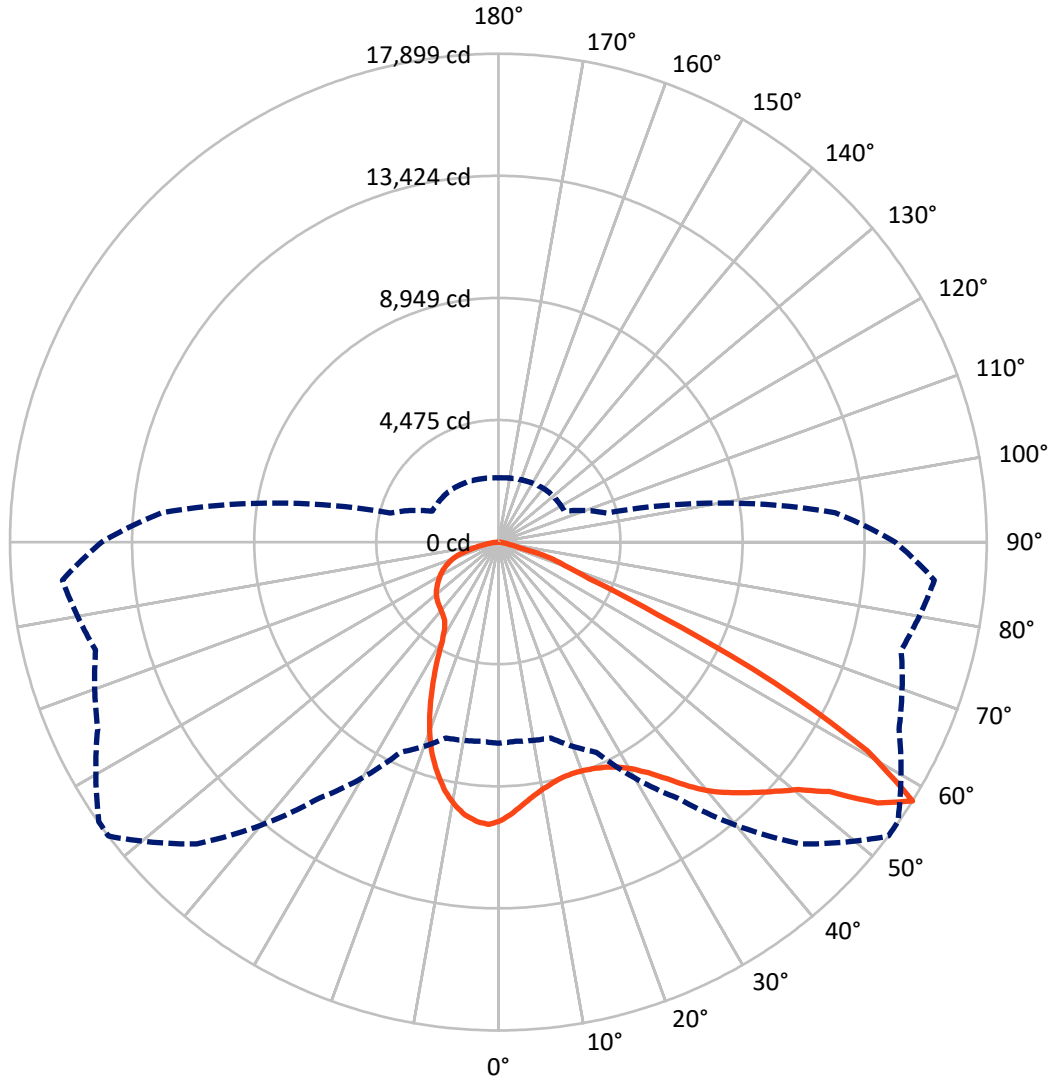
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P640725
CATALOG NUMBER: GWS-SA5E-740-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640725

CATALOG NUMBER: GWS-SA5E-740-U-SL2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9997.1	0.0	9997.1
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	21976.8	0.0	21976.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	31973.9	0.0	31973.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.3	2.9
10°-20°	2422.3	7.6
20°-30°	3568.9	11.2
30°-40°	4995.6	15.6
40°-50°	6567.0	20.5
50°-60°	7699.9	24.1
60°-70°	4536.1	14.2
70°-80°	1128.4	3.5
80°-90°	132.4	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°	31973.9	100.0
0°-180°	31973.9	100.0

Coefficient of Utilization



REPORT NUMBER: P640725

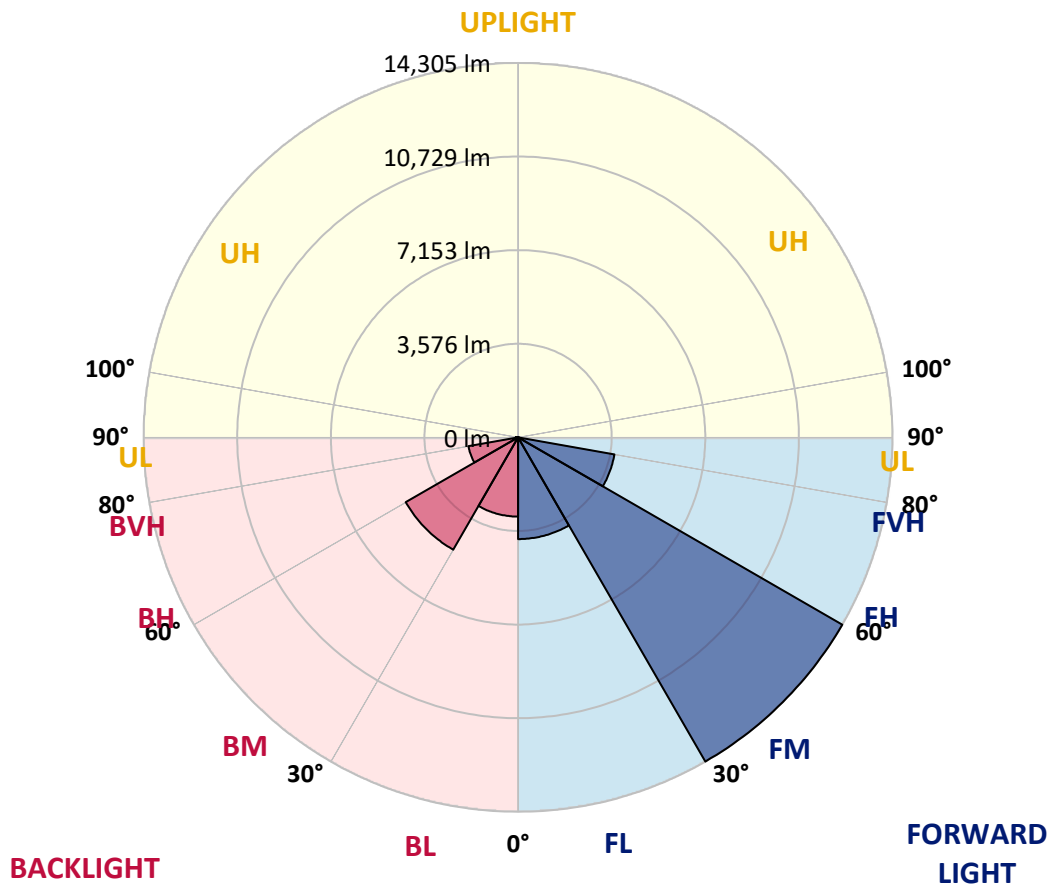
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3887.4	12.2			
FM (30°-60°)	14305.4	44.7			
FH (60°-80°)	3739.7	11.7			G2/5000
FVH (80°-90°)	44.3	0.1			G1/100
BL (0°-30°)	3027.2	9.5	B4/5000		
BM (30°-60°)	4957.1	15.5	B3/5000		
BH (60°-80°)	1924.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	88.1	0.3			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





REPORT NUMBER: P640725

CATALOG NUMBER: GWS-SA5E-740-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1
2.5°	9623.5	9650.4	9655.8	9739.2	9744.6	9865.7	9946.4	9930.3	10013.7	10115.9	10196.7
5°	9163.3	9166.0	9192.9	9292.5	9346.3	9505.1	9639.6	9639.6	9801.1	10011.0	10191.3
7.5°	8783.8	8781.1	8805.4	8915.7	9004.5	9195.6	9378.6	9400.1	9626.2	9932.9	10226.3
10°	8431.3	8450.1	8477.0	8611.6	8724.6	8961.4	9179.4	9214.4	9499.7	9879.1	10274.7
12.5°	8205.2	8207.9	8248.3	8399.0	8544.3	8797.3	9026.0	9069.1	9397.4	9828.0	10309.7
15°	8059.9	8062.6	8105.7	8272.5	8442.1	8697.7	8931.8	8980.3	9338.2	9819.9	10377.0
17.5°	7995.3	7992.6	8033.0	8199.9	8385.5	8652.0	8902.2	8961.4	9365.1	9881.8	10495.4
20°	7995.3	7998.0	8019.6	8170.3	8358.6	8641.2	8931.8	9004.5	9470.1	10021.8	10678.4
22.5°	8108.4	8119.1	8129.9	8232.2	8380.2	8657.4	9009.9	9106.8	9696.1	10255.9	10917.9
25°	8329.0	8331.7	8342.5	8425.9	8493.2	8703.1	9139.1	9284.4	10048.7	10597.7	11219.3
27.5°	8625.1	8662.7	8673.5	8727.3	8727.3	8816.1	9340.9	9550.8	10525.0	11090.1	11604.1
30°	9039.5	9052.9	9071.8	9131.0	9066.4	9028.7	9636.9	9906.0	11076.7	11684.9	12067.0
32.5°	9402.8	9432.4	9534.7	9631.5	9515.8	9397.4	10072.9	10390.4	11606.8	12303.8	12559.5
35°	9712.3	9784.9	9981.4	10196.7	10115.9	9997.5	10651.5	10982.5	12042.8	12747.9	12995.4
37.5°	10086.3	10142.9	10412.0	10761.8	10834.5	10778.0	11356.5	11593.4	12333.4	12860.9	13232.3
40°	10465.8	10551.9	10899.1	11383.5	11660.6	11701.0	12007.8	12166.6	12433.0	12640.2	13186.5
42.5°	10853.3	11001.3	11477.7	12042.8	12535.3	12626.8	12556.8	12624.1	12400.7	12336.1	12973.9
45°	11326.9	11501.9	12040.1	12761.3	13409.9	13552.5	13095.0	13033.1	12395.3	12220.4	12842.1
47.5°	11886.7	12061.6	12575.6	13415.3	14244.1	14349.1	13646.7	13533.7	12583.7	12398.0	13019.7
50°	12381.9	12503.0	12963.2	13902.4	15021.9	15083.8	14254.9	14117.6	13052.0	12890.5	13574.0
52.5°	11878.6	11865.2	12349.6	13506.8	15425.5	16171.0	15191.4	15059.5	13956.2	13708.6	14432.5
55°	10078.3	9924.9	10358.1	11496.5	14297.9	17137.1	16870.7	16606.9	15161.8	14532.1	15237.2
57.5°	7368.3	7325.2	7430.2	8498.6	11453.4	15640.8	17898.7	17874.5	16203.3	15285.6	16039.1
60°	5761.7	5697.1	5417.2	5446.8	7807.0	12217.7	15533.2	16246.3	16849.1	15737.7	16598.9
62.5°	5115.8	5067.4	4922.1	4521.1	4650.3	8191.8	11386.2	12040.1	14723.1	13899.7	14257.6
65°	4235.8	4222.4	4343.5	4327.3	3896.7	4523.8	6426.4	7085.7	9257.5	9373.2	9257.5
67.5°	3078.6	3054.4	3361.2	3966.7	3751.4	3415.0	3581.9	3810.6	4747.1	4262.7	3837.5
70°	2002.2	1967.2	2144.8	2866.0	3358.5	2976.4	2580.8	2543.1	2610.4	1622.7	1754.6
72.5°	1342.9	1302.5	1299.8	1577.0	2029.1	2004.9	1999.5	1980.7	1768.1	1281.0	1420.9
75°	748.1	715.8	707.8	680.9	726.6	740.1	788.5	815.4	882.7	971.5	1076.5
77.5°	126.5	123.8	156.1	199.1	274.5	352.5	436.0	460.2	567.8	672.8	740.1
80°	70.0	72.7	94.2	115.7	153.4	209.9	269.1	285.3	349.8	406.4	460.2
82.5°	37.7	37.7	48.4	61.9	83.4	110.3	145.3	158.8	201.8	236.8	274.5
85°	13.5	13.5	18.8	24.2	35.0	45.7	56.5	64.6	88.8	121.1	137.2
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	10.8	10.8	13.5	24.2	35.0
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: P640725

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1	10210.1
2.5°	10264.0	10191.3	10290.9	10336.6	10352.8	10363.5	10293.6	10245.1	10229.0	10177.8	10148.2
5°	10301.6	10253.2	10347.4	10347.4	10280.1	10210.1	10067.5	9967.9	9898.0	9814.5	9801.1
7.5°	10366.2	10331.2	10382.4	10277.4	10107.9	9919.5	9671.9	9478.1	9322.1	9219.8	9222.5
10°	10452.3	10409.3	10368.9	10134.8	9825.3	9478.1	9098.7	8816.1	8557.8	8439.4	8374.8
12.5°	10508.8	10446.9	10277.4	9889.9	9435.1	8969.5	8434.0	8014.2	7640.1	7470.6	7457.1
15°	10578.8	10465.8	10126.7	9572.3	8939.9	8304.8	7615.9	7031.9	6526.0	6262.2	6248.8
17.5°	10670.3	10484.6	9946.4	9209.0	8417.8	7481.3	6614.8	5880.1	5341.9	5137.4	5172.3
20°	10799.5	10506.2	9741.9	8805.4	7769.3	6544.8	5465.7	4790.2	4583.0	4569.5	4542.6
22.5°	10944.8	10519.6	9515.8	8353.3	6983.5	5546.4	4515.7	4227.8	4225.1	4292.3	4308.5
25°	11109.0	10530.4	9260.2	7825.8	6133.1	4550.7	3993.6	3907.5	3974.8	4101.3	4117.4
27.5°	11318.9	10551.9	8950.7	7247.2	5228.9	3931.7	3705.7	3684.2	3764.9	3883.3	3877.9
30°	11628.4	10629.9	8622.4	6582.5	4300.4	3638.4	3530.8	3533.4	3565.7	3622.3	3630.3
32.5°	11943.2	10751.0	8302.1	5834.4	3767.6	3471.6	3423.1	3417.7	3417.7	3441.9	3447.3
35°	12241.9	10888.3	7955.0	5053.9	3509.2	3374.7	3342.4	3326.2	3318.2	3312.8	3304.7
37.5°	12408.8	10955.6	7615.9	4284.3	3372.0	3310.1	3277.8	3256.3	3226.7	3205.1	3199.7
40°	12336.1	10877.5	7223.0	3708.4	3288.6	3248.2	3210.5	3180.9	3140.5	3121.7	3110.9
42.5°	12093.9	10635.3	6795.1	3436.6	3221.3	3180.9	3135.2	3086.7	3059.8	3043.7	3041.0
45°	11838.3	10342.0	6278.4	3277.8	3156.7	3108.2	3054.4	3000.6	2971.0	2962.9	2960.2
47.5°	11830.2	10196.7	5729.4	3151.3	3078.6	3030.2	2962.9	2909.1	2876.8	2866.0	2855.3
50°	12185.4	10344.7	5110.4	3041.0	2997.9	2946.8	2871.4	2812.2	2771.9	2758.4	2755.7
52.5°	12922.8	10901.7	4556.1	2930.6	2890.3	2831.1	2769.2	2710.0	2661.5	2637.3	2634.6
55°	13719.4	11609.5	4211.6	2817.6	2763.8	2712.7	2656.1	2591.6	2537.7	2500.1	2494.7
57.5°	14542.8	12381.9	4106.7	2675.0	2634.6	2599.6	2532.3	2462.4	2400.5	2365.5	2357.4
60°	15221.0	13046.6	4303.1	2524.3	2502.7	2457.0	2395.1	2327.8	2284.8	2257.9	2252.5
62.5°	12742.5	10621.9	3474.2	2360.1	2360.1	2311.7	2241.7	2193.3	2163.7	2144.8	2139.4
65°	8086.8	6577.1	2370.9	2196.0	2193.3	2128.7	2069.5	2037.2	2023.7	1994.1	1988.7
67.5°	3522.7	3006.0	2026.4	2029.1	2018.3	1948.4	1889.2	1864.9	1838.0	1805.7	1803.1
70°	1827.3	1862.3	1813.8	1843.4	1824.6	1741.2	1684.6	1647.0	1590.5	1558.2	1560.9
72.5°	1474.7	1512.4	1566.2	1612.0	1571.6	1504.3	1415.5	1369.8	1297.1	1262.1	1264.8
75°	1124.9	1165.3	1216.4	1264.8	1232.5	1149.1	1092.6	1046.8	963.4	923.1	931.1
77.5°	775.0	796.6	858.5	855.8	845.0	820.8	737.4	683.5	597.4	549.0	554.4
80°	481.7	495.2	524.8	538.2	532.8	500.5	433.3	392.9	341.8	312.2	314.9
82.5°	290.6	298.7	325.6	328.3	325.6	301.4	250.3	220.7	188.4	172.2	172.2
85°	148.0	153.4	169.5	169.5	153.4	129.2	115.7	102.3	83.4	75.4	75.4
87.5°	40.4	40.4	51.1	43.1	35.0	32.3	16.1	13.5	5.4	2.7	2.7
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)