

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: P638199

Luminaire Tested: GWS-SA4E-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25276.9 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

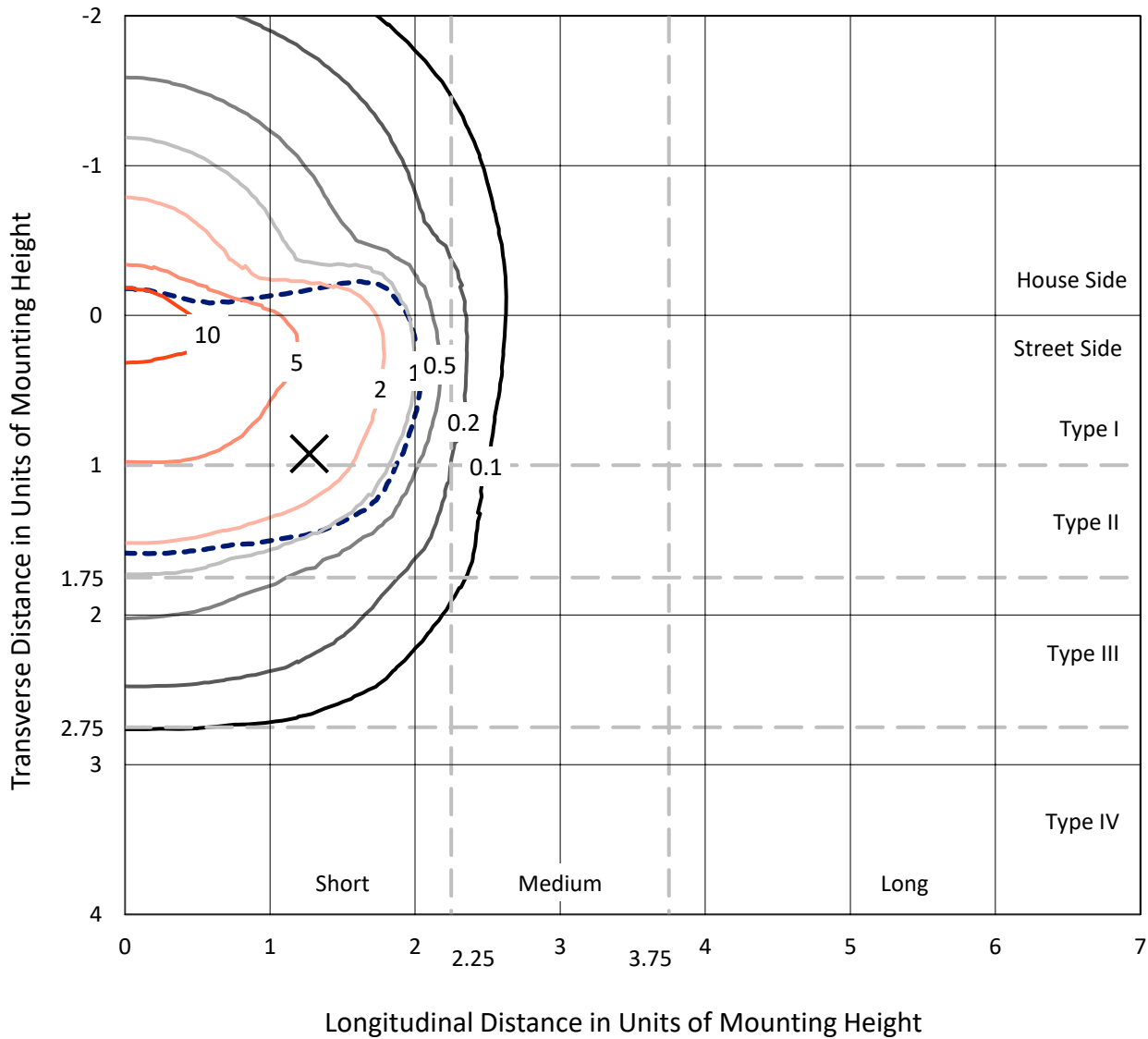
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

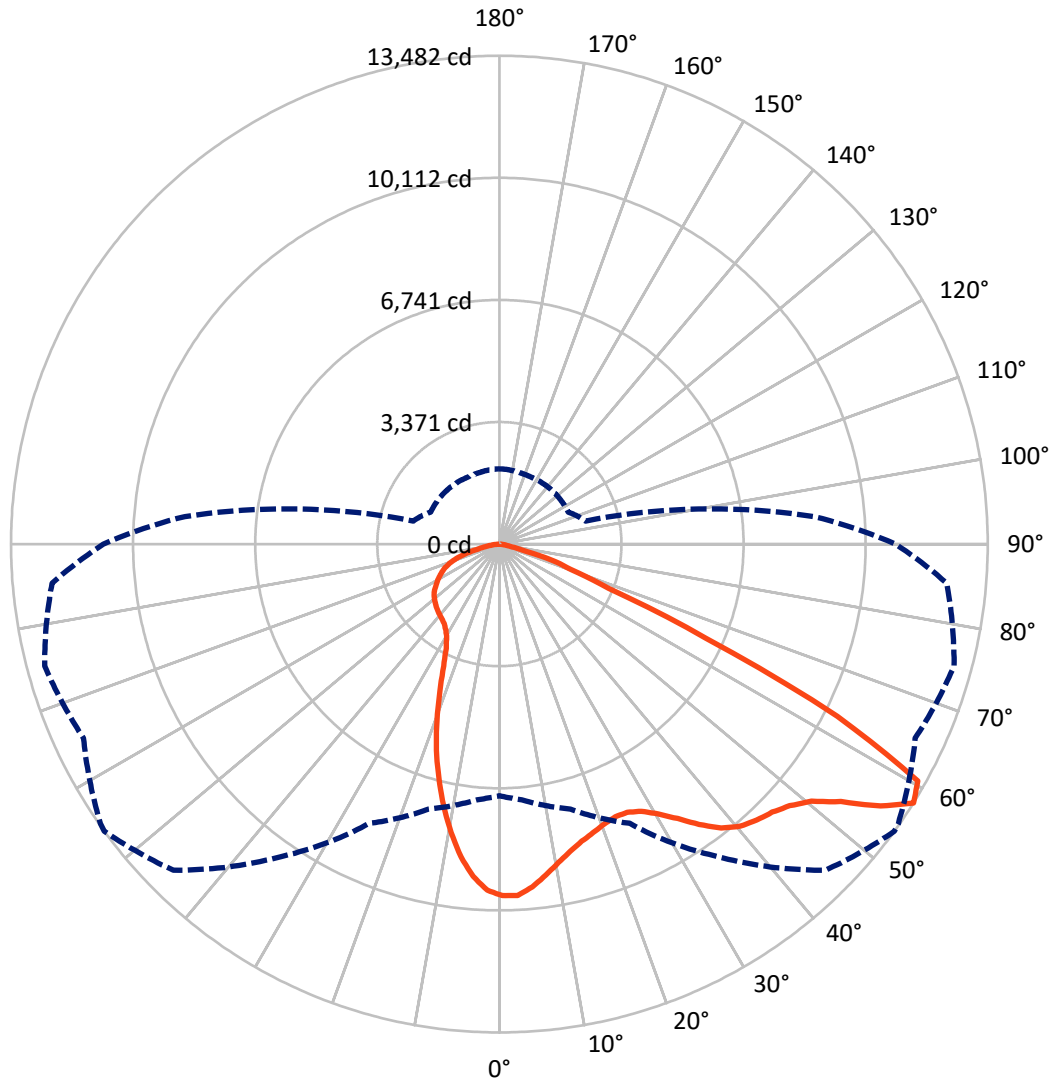
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7348.3	0.0	7348.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	17928.6	0.0	17928.6
	% Fixture	70.9	0.0	70.9
Total	Lumens	25276.9	0.0	25276.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.0	3.4
10°-20°	2035.4	8.1
20°-30°	2816.7	11.1
30°-40°	3913.7	15.5
40°-50°	5168.9	20.4
50°-60°	6142.4	24.3
60°-70°	3403.0	13.5
70°-80°	847.4	3.4
80°-90°	96.4	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°	25276.9	100.0
0°-180°	25276.9	100.0

Coefficient of Utilization



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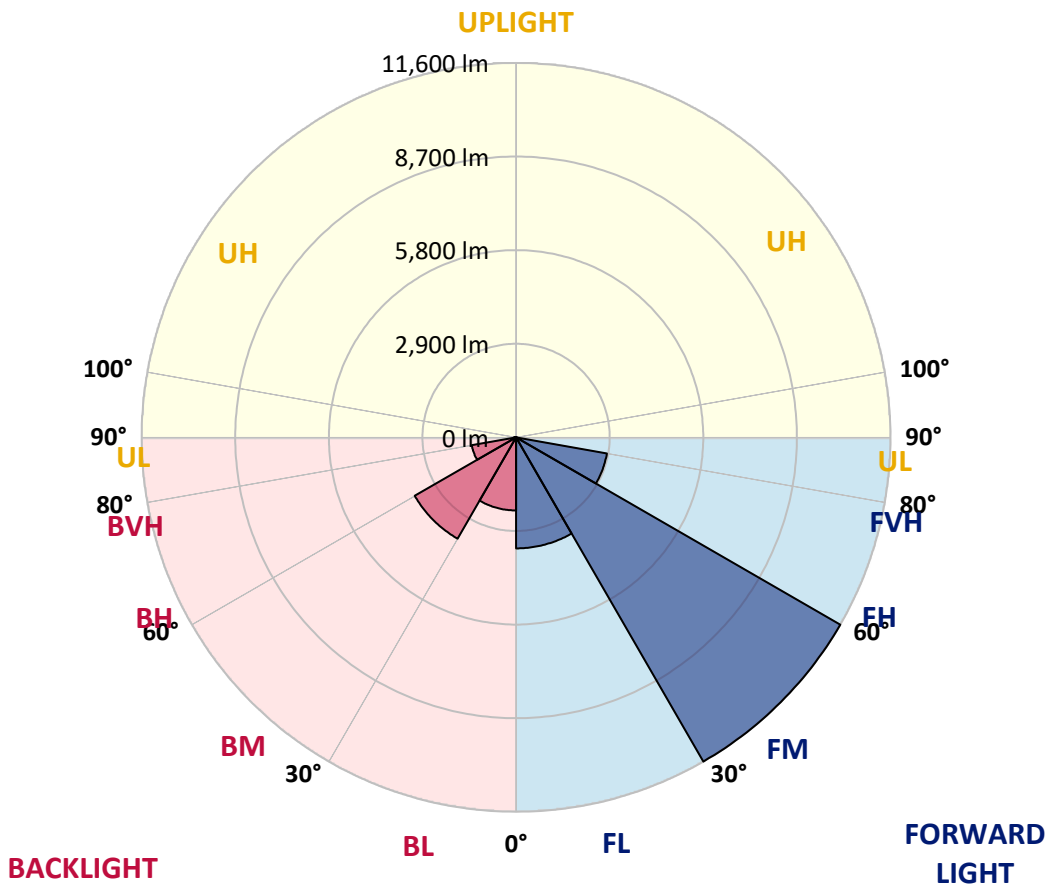
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.6	13.6			
FM (30°-60°)	11600.0	45.9			
FH (60°-80°)	2857.9	11.3			G2/5000
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	2264.4	9.0	B3/2500		
BM (30°-60°)	3625.1	14.3	B3/5000		
BH (60°-80°)	1392.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	66.2	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°	54°	55°	65°	75°	85°
0°	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4
2.5°	9522.6	9542.1	9555.1	9600.5	9639.5	9674.1	9710.9	9710.9	9708.7	9702.2	9689.2
5°	9146.1	9167.8	9198.1	9260.8	9345.2	9405.8	9505.3	9514.0	9557.2	9574.6	9565.9
7.5°	8709.1	8715.5	8754.5	8836.7	8970.9	9079.1	9221.9	9239.2	9343.0	9403.6	9392.8
10°	8230.9	8209.2	8278.5	8399.6	8574.9	8756.7	8940.6	8955.7	9122.3	9237.0	9228.4
12.5°	7793.8	7796.0	7865.2	8012.3	8230.9	8455.9	8702.6	8737.2	8942.7	9089.9	9074.7
15°	7428.1	7436.8	7521.2	7687.8	7936.6	8204.9	8512.2	8544.6	8804.3	8999.0	8955.7
17.5°	7136.0	7144.7	7218.2	7408.6	7674.8	7999.3	8373.7	8406.1	8728.5	8960.0	8871.3
20°	6934.8	6930.5	7001.9	7183.6	7458.4	7811.1	8252.5	8300.1	8704.7	8975.2	8815.1
22.5°	6852.6	6850.4	6902.3	7051.6	7309.1	7666.1	8178.9	8243.9	8730.7	9042.3	8780.5
25°	6893.7	6885.0	6930.5	7040.8	7246.4	7609.9	8200.6	8269.8	8841.0	9180.8	8786.9
27.5°	7021.3	7010.5	7049.5	7149.0	7304.8	7668.3	8352.0	8432.1	9074.7	9433.9	8873.5
30°	7216.1	7209.6	7248.5	7343.7	7480.1	7863.0	8642.0	8732.9	9436.1	9827.7	9061.7
32.5°	7443.3	7432.4	7501.7	7612.0	7770.0	8217.9	9031.5	9150.5	9864.5	10334.0	9377.7
35°	7698.6	7689.9	7785.1	7945.3	8172.4	8711.2	9503.1	9633.0	10301.6	10907.4	9797.4
37.5°	7947.4	7947.4	8131.3	8369.3	8655.0	9247.8	9946.7	10028.9	10604.5	11415.9	10247.5
40°	8168.1	8181.1	8458.1	8815.1	9178.6	9732.5	10238.8	10308.1	10738.6	11766.4	10639.1
42.5°	8412.6	8423.4	8745.8	9213.2	9646.0	10124.1	10416.2	10450.9	10764.6	11941.7	10916.1
45°	8607.4	8622.5	9022.8	9522.6	10052.7	10418.4	10556.9	10587.2	10801.4	12036.9	11117.3
47.5°	8709.1	8730.7	9189.4	9771.5	10327.5	10682.4	10788.4	10801.4	10952.9	12203.5	11359.6
50°	8691.7	8735.0	9252.2	9894.8	10530.9	10948.5	11160.6	11182.2	11262.3	12448.0	11643.1
52.5°	8845.4	8864.8	9386.3	10041.9	10820.9	11439.7	11807.5	11837.8	11801.0	12631.9	11811.9
55°	8590.0	8683.1	9219.7	10020.3	11262.3	12199.2	12766.1	12750.9	12290.0	12837.5	12093.1
57.5°	6947.8	7084.1	7575.3	8505.7	10535.3	12731.4	13482.3	13445.5	12668.7	12995.4	12398.2
60°	4810.0	4831.6	5275.2	5935.1	8131.3	11247.1	13272.4	13352.4	12737.9	12796.4	11833.5
62.5°	3847.1	3840.6	3881.8	3899.1	5171.3	7906.3	10476.8	10768.9	10582.9	9970.5	8386.7
65°	3284.6	3308.4	3429.5	3366.8	3375.4	4453.0	6259.7	6300.8	6171.0	5950.3	4435.7
67.5°	2570.5	2611.6	2825.8	3070.3	2992.5	2867.0	3247.8	3228.3	2544.6	1969.0	1627.1
70°	1609.8	1635.8	1865.1	2410.4	2605.1	2354.1	2088.0	2079.4	1363.2	1120.8	1229.0
72.5°	939.1	943.4	1008.3	1343.7	1728.8	1609.8	1536.3	1480.0	876.3	893.6	980.2
75°	517.1	517.1	515.0	579.9	681.6	603.7	584.2	569.1	586.4	664.3	729.2
77.5°	108.2	110.4	116.8	153.6	199.1	242.3	305.1	307.3	383.0	443.6	495.5
80°	49.8	51.9	64.9	82.2	106.0	140.6	186.1	188.2	231.5	279.1	313.7
82.5°	26.0	28.1	34.6	43.3	56.3	73.6	103.9	103.9	138.5	164.4	186.1
85°	8.7	8.7	13.0	17.3	23.8	30.3	41.1	41.1	60.6	80.1	93.0
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.7	8.7	10.8	13.0	21.6
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°	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4	9704.4
2.5°	9661.1	9594.0	9596.2	9609.2	9568.1	9505.3	9464.2	9412.3	9379.8	9373.3	9397.1
5°	9522.6	9444.7	9390.6	9334.4	9217.5	9079.1	8970.9	8882.2	8823.7	8802.1	8776.1
7.5°	9332.2	9230.5	9094.2	8936.2	8724.2	8477.5	8304.4	8142.2	8029.6	7997.2	7982.0
10°	9141.8	8994.7	8752.3	8458.1	8105.4	7772.2	7458.4	7218.2	7027.8	6919.6	6954.3
12.5°	8944.9	8763.1	8384.5	7932.3	7441.1	6939.1	6528.0	6129.9	5822.6	5669.0	5623.6
15°	8771.8	8525.1	7997.2	7384.8	6731.4	6099.6	5504.6	4907.4	4517.9	4305.8	4247.4
17.5°	8624.7	8304.4	7588.2	6826.6	6045.5	5145.4	4414.0	3860.1	3594.0	3477.1	3468.5
20°	8479.7	8088.1	7183.6	6225.1	5253.6	4245.3	3591.8	3332.2	3237.0	3195.8	3193.7
22.5°	8349.9	7860.9	6757.4	5623.6	4466.0	3568.0	3208.8	3096.3	3070.3	3070.3	3066.0
25°	8239.5	7633.7	6320.3	4985.3	3754.1	3176.4	3009.8	2962.2	2973.0	2992.5	2994.6
27.5°	8194.1	7456.2	5898.4	4329.6	3262.9	2949.2	2873.4	2867.0	2897.2	2927.5	2931.9
30°	8241.7	7335.1	5465.6	3702.2	2968.7	2810.7	2776.1	2789.1	2825.8	2856.1	2856.1
32.5°	8388.8	7274.5	5024.2	3243.4	2797.7	2713.3	2702.5	2715.5	2743.6	2760.9	2763.1
35°	8637.7	7298.3	4567.7	2934.0	2687.4	2641.9	2639.8	2648.4	2659.2	2670.1	2672.2
37.5°	8951.4	7404.3	4078.7	2754.4	2616.0	2590.0	2585.7	2583.5	2585.7	2585.7	2587.8
40°	9258.6	7564.4	3641.6	2648.4	2566.2	2544.6	2533.7	2518.6	2516.4	2512.1	2509.9
42.5°	9485.8	7687.8	3293.2	2572.7	2520.8	2494.8	2481.8	2458.0	2455.8	2453.7	2451.5
45°	9656.8	7791.6	3003.3	2499.1	2473.2	2449.4	2421.2	2399.6	2403.9	2408.2	2408.2
47.5°	9849.3	7882.5	2791.2	2429.9	2414.7	2390.9	2356.3	2341.2	2356.3	2371.5	2371.5
50°	10083.0	8010.2	2618.1	2360.6	2354.1	2326.0	2295.7	2289.2	2306.5	2328.2	2328.2
52.5°	10254.0	8120.5	2494.8	2291.4	2291.4	2254.6	2228.7	2226.5	2246.0	2267.6	2269.8
55°	10574.2	8378.0	2451.5	2211.3	2202.7	2174.6	2155.1	2139.9	2163.7	2183.2	2183.2
57.5°	10935.5	8719.9	2462.3	2096.7	2085.8	2077.2	2062.0	2044.7	2051.2	2072.9	2075.0
60°	10169.6	8057.8	2343.3	1982.0	1975.5	1971.2	1951.7	1921.4	1930.1	1947.4	1949.5
62.5°	7103.6	5355.3	1895.4	1839.2	1860.8	1858.7	1832.7	1798.1	1800.2	1824.0	1824.0
65°	3687.0	2897.2	1663.9	1709.4	1741.8	1728.8	1685.6	1655.3	1650.9	1681.2	1674.7
67.5°	1590.3	1581.7	1514.6	1573.0	1607.7	1579.5	1534.1	1484.3	1488.7	1499.5	1490.8
70°	1280.9	1319.9	1348.0	1410.8	1438.9	1387.0	1337.2	1309.1	1285.3	1283.1	1268.0
72.5°	1023.4	1077.5	1140.3	1205.2	1213.9	1161.9	1099.2	1073.2	1036.4	1034.3	1019.1
75°	770.3	815.7	865.5	917.4	917.4	867.7	826.5	813.6	770.3	757.3	744.3
77.5°	525.8	553.9	592.9	605.8	618.8	599.4	558.2	536.6	486.8	473.9	456.5
80°	331.1	350.5	374.3	383.0	396.0	372.2	339.7	315.9	281.3	270.5	261.8
82.5°	199.1	212.0	227.2	231.5	242.3	225.0	194.7	177.4	158.0	149.3	142.8
85°	101.7	108.2	116.8	119.0	116.8	99.5	88.7	80.1	67.1	64.9	60.6
87.5°	26.0	30.3	32.5	30.3	28.1	21.6	15.1	10.8	4.3	4.3	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)