

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: P638364

Luminaire Tested: GWS-SA4E-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638364
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25856.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

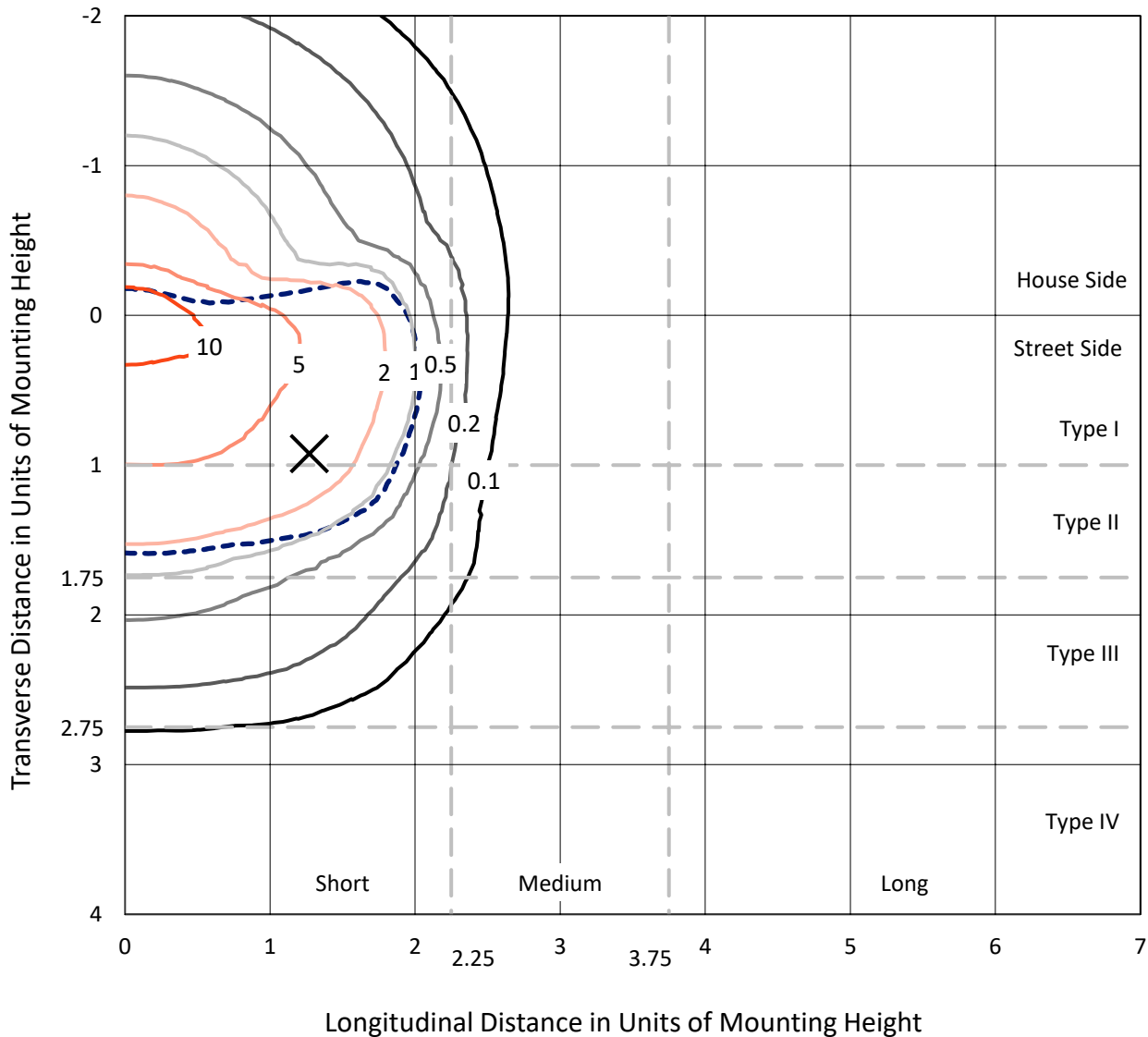
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

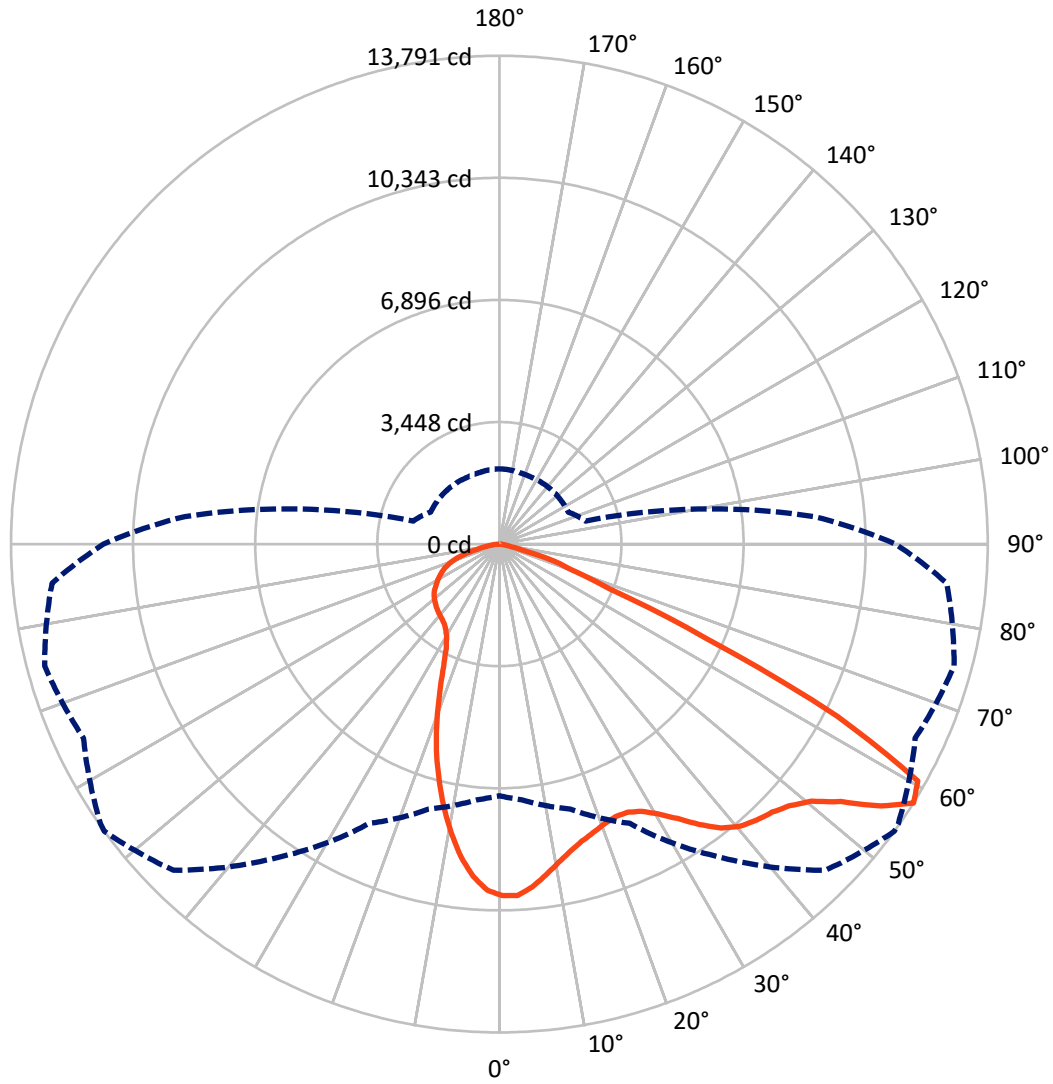
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	7516.7	0.0	7516.7
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	18339.4	0.0	18339.4
	% Fixture	70.9	0.0	70.9
Total	Lumens	25856.1	0.0	25856.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.5	3.4
10°-20°	2082.0	8.1
20°-30°	2881.2	11.1
30°-40°	4003.4	15.5
40°-50°	5287.3	20.4
50°-60°	6283.2	24.3
60°-70°	3481.0	13.5
70°-80°	866.8	3.4
80°-90°	98.6	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°	25856.1	100.0
0°-180°	25856.1	100.0

Coefficient of Utilization



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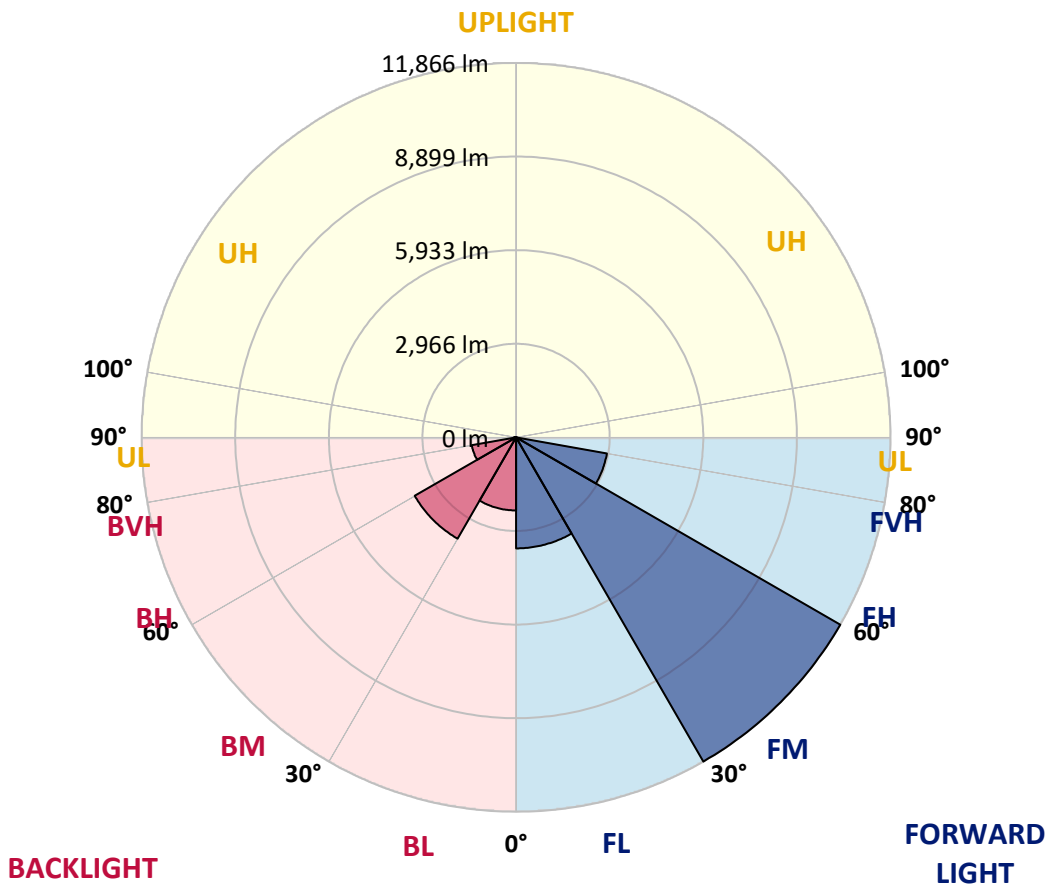
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3519.4	13.6			
FM (30°-60°)	11865.8	45.9			
FH (60°-80°)	2923.4	11.3			G2/5000
FVH (80°-90°)	30.8	0.1			G1/100
BL (0°-30°)	2316.3	9.0	B3/2500		
BM (30°-60°)	3708.2	14.3	B3/5000		
BH (60°-80°)	1424.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	67.7	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°	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7
2.5°	9740.8	9760.7	9774.0	9820.5	9860.3	9895.8	9933.4	9933.4	9931.2	9924.5	9911.3
5°	9355.7	9377.8	9408.8	9473.0	9559.3	9621.3	9723.1	9732.0	9776.2	9793.9	9785.1
7.5°	8908.6	8915.3	8955.1	9039.2	9176.4	9287.1	9433.2	9450.9	9557.1	9619.1	9608.0
10°	8419.5	8397.3	8468.2	8592.1	8771.4	8957.3	9145.4	9160.9	9331.4	9448.7	9439.8
12.5°	7972.4	7974.6	8045.4	8195.9	8419.5	8649.7	8902.0	8937.4	9147.7	9298.2	9282.7
15°	7598.3	7607.2	7693.5	7863.9	8118.5	8392.9	8707.2	8740.4	9006.0	9205.2	9160.9
17.5°	7299.5	7308.4	7383.6	7578.4	7850.6	8182.6	8565.6	8598.8	8928.5	9165.4	9074.6
20°	7093.7	7089.3	7162.3	7348.2	7629.3	7990.1	8441.6	8490.3	8904.2	9180.9	9017.1
22.5°	7009.6	7007.4	7060.5	7213.2	7476.6	7841.8	8366.4	8432.8	8930.7	9249.5	8981.7
25°	7051.6	7042.8	7089.3	7202.1	7412.4	7784.2	8388.5	8459.3	9043.6	9391.1	8988.3
27.5°	7182.2	7171.2	7211.0	7312.8	7472.2	7844.0	8543.4	8625.3	9282.7	9650.1	9076.8
30°	7381.4	7374.8	7414.6	7512.0	7651.5	8043.2	8840.0	8933.0	9652.3	10052.9	9269.4
32.5°	7613.8	7602.8	7673.6	7786.5	7948.0	8406.2	9238.4	9360.1	10090.5	10570.8	9592.5
35°	7875.0	7866.1	7963.5	8127.3	8359.7	8910.8	9720.9	9853.7	10537.6	11157.4	10021.9
37.5°	8129.5	8129.5	8317.7	8561.1	8853.3	9459.7	10174.6	10258.7	10847.5	11677.5	10482.3
40°	8355.3	8368.6	8651.9	9017.1	9388.9	9955.5	10473.4	10544.3	10984.7	12036.0	10882.9
42.5°	8605.4	8616.5	8946.2	9424.3	9867.0	10356.1	10654.9	10690.3	11011.3	12215.3	11166.2
45°	8804.6	8820.1	9229.5	9740.8	10283.1	10657.1	10798.8	10829.8	11048.9	12312.7	11372.0
47.5°	8908.6	8930.7	9400.0	9995.4	10564.2	10927.2	11035.6	11048.9	11203.8	12483.1	11619.9
50°	8890.9	8935.2	9464.2	10121.5	10772.2	11199.4	11416.3	11438.4	11520.3	12733.2	11909.9
52.5°	9048.1	9068.0	9601.4	10272.0	11068.8	11701.8	12078.1	12109.1	12071.5	12921.4	12082.5
55°	8786.9	8882.1	9431.0	10249.9	11520.3	12478.7	13058.6	13043.1	12571.7	13131.6	12370.3
57.5°	7107.0	7246.4	7748.8	8700.6	10776.7	13023.2	13791.2	13753.6	12959.0	13293.2	12682.3
60°	4920.2	4942.3	5396.1	6071.1	8317.7	11504.8	13576.5	13658.4	13029.8	13089.6	12104.7
62.5°	3935.3	3928.6	3970.7	3988.4	5289.8	8087.5	10716.9	11015.7	10825.4	10199.0	8578.8
65°	3359.8	3384.2	3508.1	3443.9	3452.8	4555.0	6403.1	6445.2	6312.4	6086.6	4537.3
67.5°	2629.4	2671.5	2890.6	3140.7	3061.0	2932.7	3322.2	3302.3	2602.9	2014.1	1664.4
70°	1646.7	1673.3	1907.9	2465.6	2664.8	2408.1	2135.9	2127.0	1394.4	1146.5	1257.2
72.5°	960.6	965.0	1031.4	1374.5	1768.4	1646.7	1571.5	1513.9	896.4	914.1	1002.6
75°	529.0	529.0	526.8	593.2	697.2	617.5	597.6	582.1	599.8	679.5	745.9
77.5°	110.7	112.9	119.5	157.1	203.6	247.9	312.1	314.3	391.8	453.7	506.9
80°	50.9	53.1	66.4	84.1	108.5	143.9	190.3	192.6	236.8	285.5	320.9
82.5°	26.6	28.8	35.4	44.3	57.5	75.3	106.2	106.2	141.7	168.2	190.3
85°	8.9	8.9	13.3	17.7	24.3	31.0	42.1	42.1	62.0	81.9	95.2
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.9	8.9	11.1	13.3	22.1
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°	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7	9926.7
2.5°	9882.5	9813.9	9816.1	9829.4	9787.3	9723.1	9681.1	9627.9	9594.7	9588.1	9612.5
5°	9740.8	9661.1	9605.8	9548.3	9428.7	9287.1	9176.4	9085.7	9025.9	9003.8	8977.2
7.5°	9546.1	9442.0	9302.6	9141.0	8924.1	8671.8	8494.7	8328.7	8213.6	8180.4	8164.9
10°	9351.3	9200.8	8952.9	8651.9	8291.1	7950.2	7629.3	7383.6	7188.9	7078.2	7113.6
12.5°	9149.9	8963.9	8576.6	8114.0	7611.6	7098.1	6677.6	6270.3	5956.0	5798.9	5752.4
15°	8972.8	8720.5	8180.4	7554.1	6885.6	6239.4	5630.7	5019.8	4621.4	4404.5	4344.7
17.5°	8822.3	8494.7	7762.1	6983.0	6184.0	5263.3	4515.2	3948.6	3676.3	3556.8	3548.0
20°	8674.0	8273.4	7348.2	6367.7	5373.9	4342.5	3674.1	3408.5	3311.1	3269.1	3266.9
22.5°	8541.2	8041.0	6912.2	5752.4	4568.3	3649.8	3282.4	3167.3	3140.7	3140.7	3136.3
25°	8428.3	7808.6	6465.1	5099.5	3840.1	3249.2	3078.7	3030.0	3041.1	3061.0	3063.2
27.5°	8381.8	7627.1	6033.5	4428.9	3337.7	3016.8	2939.3	2932.7	2963.6	2994.6	2999.0
30°	8430.5	7503.2	5590.8	3787.0	3036.7	2875.1	2839.7	2853.0	2890.6	2921.6	2921.6
32.5°	8581.0	7441.2	5139.3	3317.8	2861.8	2775.5	2764.4	2777.7	2806.5	2824.2	2826.4
35°	8835.6	7465.5	4672.3	3001.3	2748.9	2702.5	2700.3	2709.1	2720.2	2731.2	2733.5
37.5°	9156.5	7574.0	4172.1	2817.6	2675.9	2649.3	2644.9	2642.7	2644.9	2644.9	2647.1
40°	9470.8	7737.8	3725.0	2709.1	2625.0	2602.9	2591.8	2576.3	2574.1	2569.7	2567.5
42.5°	9703.2	7863.9	3368.7	2631.6	2578.5	2552.0	2538.7	2514.3	2512.1	2509.9	2507.7
45°	9878.1	7970.2	3072.1	2556.4	2529.8	2505.5	2476.7	2454.6	2459.0	2463.4	2463.4
47.5°	10075.0	8063.1	2855.2	2485.6	2470.1	2445.7	2410.3	2394.8	2410.3	2425.8	2425.8
50°	10314.1	8193.7	2678.1	2414.7	2408.1	2379.3	2348.3	2341.7	2359.4	2381.5	2381.5
52.5°	10488.9	8306.6	2552.0	2343.9	2343.9	2306.3	2279.7	2277.5	2297.4	2319.6	2321.8
55°	10816.5	8570.0	2507.7	2262.0	2253.2	2224.4	2204.5	2189.0	2213.3	2233.2	2233.2
57.5°	11186.1	8919.7	2518.8	2144.7	2133.6	2124.8	2109.3	2091.6	2098.2	2120.4	2122.6
60°	10402.6	8242.4	2397.0	2027.4	2020.8	2016.3	1996.4	1965.4	1974.3	1992.0	1994.2
62.5°	7266.3	5478.0	1938.9	1881.3	1903.5	1901.2	1874.7	1839.3	1841.5	1865.8	1865.8
65°	3771.5	2963.6	1702.0	1748.5	1781.7	1768.4	1724.2	1693.2	1688.8	1719.8	1713.1
67.5°	1626.8	1617.9	1549.3	1609.1	1644.5	1615.7	1569.2	1518.3	1522.8	1533.8	1525.0
70°	1310.3	1350.1	1378.9	1443.1	1471.9	1418.7	1367.8	1339.1	1314.7	1312.5	1297.0
72.5°	1046.9	1102.2	1166.4	1232.8	1241.7	1188.6	1124.4	1097.8	1060.2	1058.0	1042.5
75°	787.9	834.4	885.3	938.4	938.4	887.5	845.5	832.2	787.9	774.7	761.4
77.5°	537.8	566.6	606.4	619.7	633.0	613.1	571.0	548.9	498.0	484.7	467.0
80°	338.6	358.6	382.9	391.8	405.0	380.7	347.5	323.1	287.7	276.7	267.8
82.5°	203.6	216.9	232.4	236.8	247.9	230.2	199.2	181.5	161.6	152.7	146.1
85°	104.0	110.7	119.5	121.7	119.5	101.8	90.7	81.9	68.6	66.4	62.0
87.5°	26.6	31.0	33.2	31.0	28.8	22.1	15.5	11.1	4.4	4.4	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)