

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: P638195

Luminaire Tested: GWS-SA4E-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638195
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25707.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

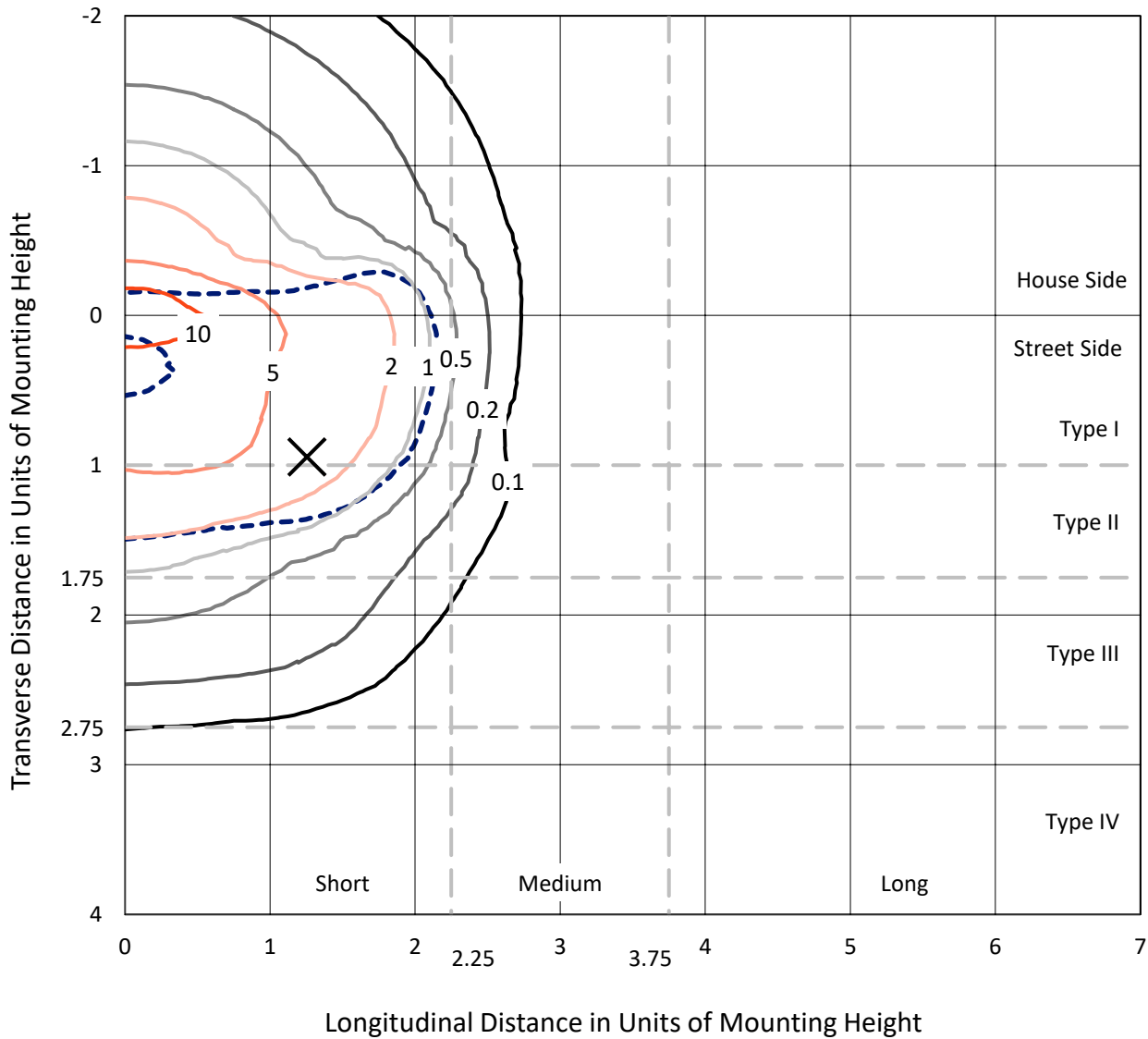
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

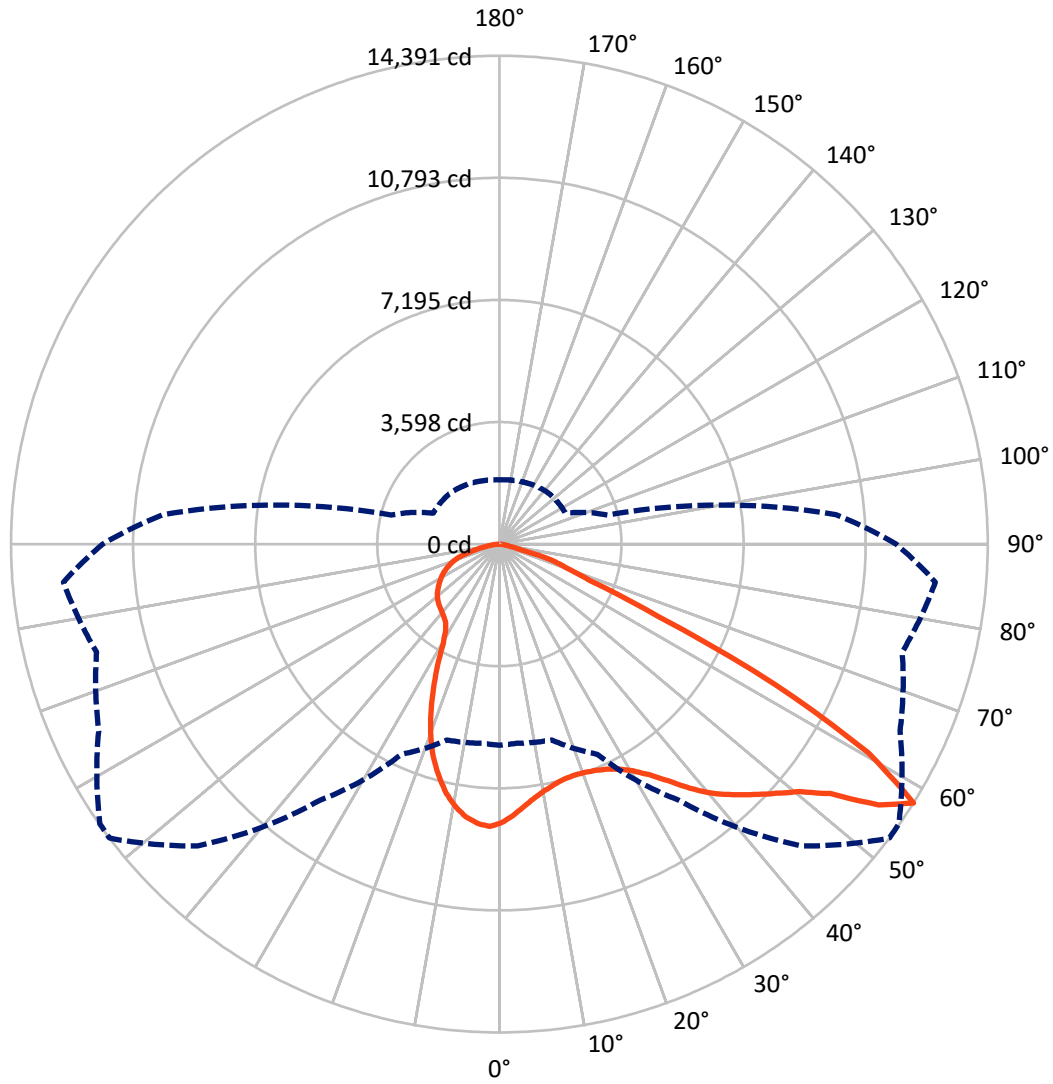
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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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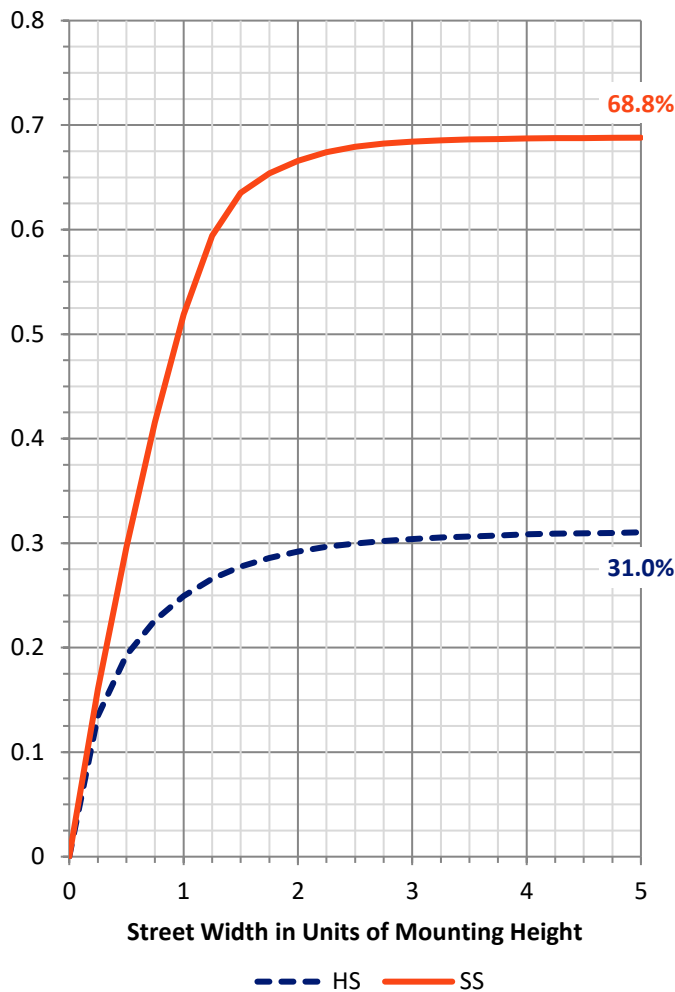
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8037.8	0.0	8037.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	17669.7	0.0	17669.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	25707.5	0.0	25707.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.3	2.9
10°-20°	1947.6	7.6
20°-30°	2869.5	11.2
30°-40°	4016.5	15.6
40°-50°	5280.0	20.5
50°-60°	6190.8	24.1
60°-70°	3647.1	14.2
70°-80°	907.3	3.5
80°-90°	106.4	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°	25707.5	100.0
0°-180°	25707.5	100.0

Coefficient of Utilization



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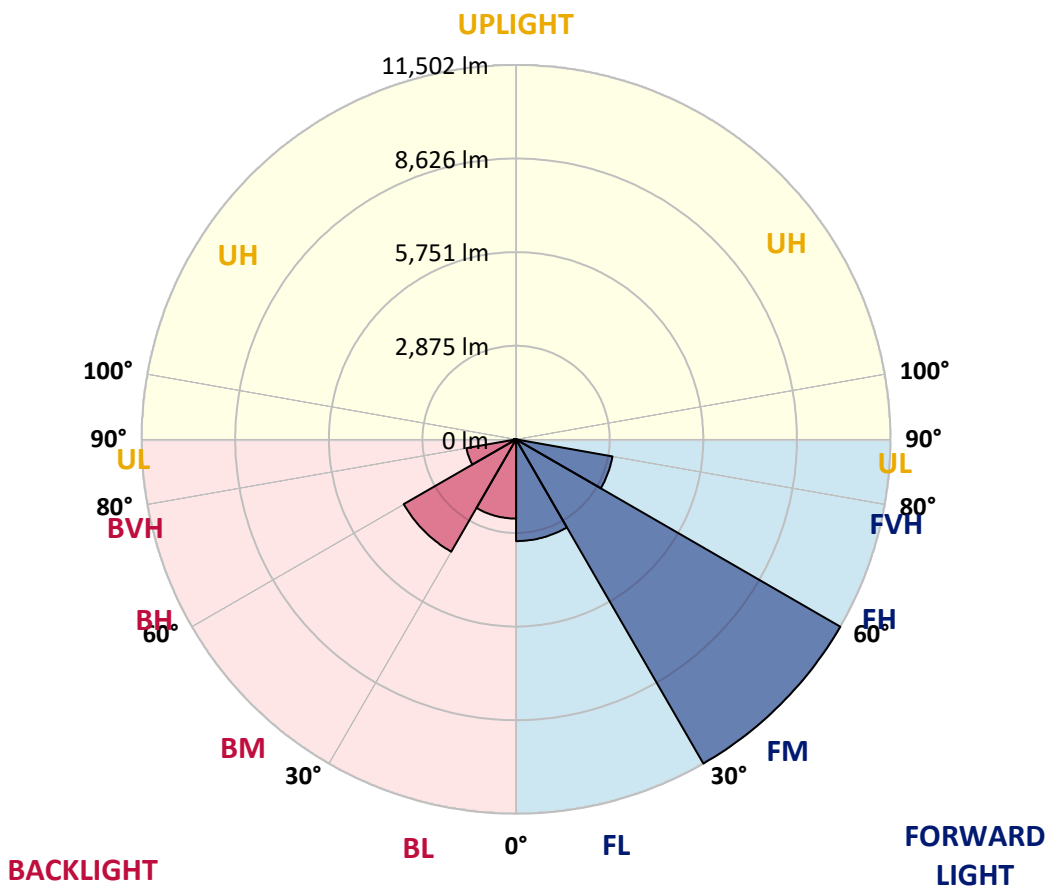
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3125.5	12.2			
FM (30°-60°)	11501.8	44.7			
FH (60°-80°)	3006.8	11.7			G2/5000
FVH (80°-90°)	35.6	0.1			G1/100
BL (0°-30°)	2433.9	9.5	B3/2500		
BM (30°-60°)	3985.5	15.5	B3/5000		
BH (60°-80°)	1547.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	70.8	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°	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1
2.5°	7737.4	7759.0	7763.4	7830.5	7834.8	7932.1	7997.1	7984.1	8051.1	8133.4	8198.3
5°	7367.4	7369.6	7391.2	7471.3	7514.5	7642.2	7750.4	7750.4	7880.2	8049.0	8194.0
7.5°	7062.3	7060.2	7079.6	7168.4	7239.8	7393.4	7540.5	7557.8	7739.6	7986.2	8222.1
10°	6778.9	6794.0	6815.7	6923.9	7014.7	7205.1	7380.4	7408.5	7637.9	7943.0	8261.0
12.5°	6597.1	6599.3	6631.8	6752.9	6869.8	7073.2	7257.1	7291.7	7555.7	7901.9	8289.2
15°	6480.3	6482.5	6517.1	6651.2	6787.5	6993.1	7181.3	7220.3	7508.1	7895.4	8343.2
17.5°	6428.4	6426.2	6458.7	6592.8	6742.1	6956.3	7157.5	7205.1	7529.7	7945.1	8438.5
20°	6428.4	6430.5	6447.8	6569.0	6720.5	6947.7	7181.3	7239.8	7614.1	8057.6	8585.6
22.5°	6519.2	6527.9	6536.6	6618.8	6737.8	6960.6	7244.1	7322.0	7795.8	8245.9	8778.2
25°	6696.7	6698.8	6707.5	6774.6	6828.7	6997.4	7347.9	7464.8	8079.3	8520.7	9020.5
27.5°	6934.7	6965.0	6973.6	7016.9	7016.9	7088.3	7510.2	7679.0	8462.3	8916.6	9329.9
30°	7267.9	7278.7	7293.9	7341.5	7289.5	7259.2	7748.2	7964.6	8905.8	9394.8	9702.1
32.5°	7560.0	7583.8	7666.0	7743.9	7650.9	7555.7	8098.8	8354.1	9332.1	9892.5	10098.0
35°	7808.8	7867.2	8025.2	8198.3	8133.4	8038.2	8563.9	8830.1	9682.6	10249.5	10448.5
37.5°	8109.6	8155.0	8371.4	8652.7	8711.1	8665.6	9130.8	9321.2	9916.3	10340.3	10638.9
40°	8414.7	8483.9	8763.0	9152.5	9375.3	9407.8	9654.5	9782.1	9996.3	10162.9	10602.2
42.5°	8726.2	8845.2	9228.2	9682.6	10078.5	10152.1	10095.9	10149.9	9970.4	9918.4	10431.2
45°	9107.0	9247.7	9680.4	10260.3	10781.7	10896.4	10528.6	10478.8	9966.0	9825.4	10325.2
47.5°	9557.1	9697.7	10111.0	10786.1	11452.5	11536.9	10972.2	10881.3	10117.5	9968.2	10468.0
50°	9955.2	10052.6	10422.6	11177.7	12077.8	12127.6	11461.1	11350.8	10494.0	10364.2	10913.7
52.5°	9550.6	9539.8	9929.2	10859.6	12402.4	13001.7	12214.1	12108.1	11221.0	11021.9	11604.0
55°	8103.1	7979.7	8328.1	9243.4	11495.8	13778.5	13564.3	13352.2	12190.3	11684.0	12250.9
57.5°	5924.2	5889.6	5974.0	6833.0	9208.7	12575.5	14390.8	14371.3	13027.7	12289.8	12895.7
60°	4632.5	4580.6	4355.5	4379.3	6276.9	9823.2	12488.9	13062.3	13547.0	12653.4	13345.7
62.5°	4113.2	4074.3	3957.4	3635.0	3738.9	6586.3	9154.6	9680.4	11837.6	11175.5	11463.3
65°	3405.7	3394.9	3492.2	3479.2	3133.0	3637.2	5166.9	5697.0	7443.1	7536.2	7443.1
67.5°	2475.3	2455.8	2702.5	3189.3	3016.2	2745.7	2879.9	3063.8	3816.8	3427.3	3085.4
70°	1609.8	1581.7	1724.5	2304.3	2700.3	2393.1	2075.0	2044.7	2098.8	1304.7	1410.7
72.5°	1079.7	1047.2	1045.1	1267.9	1631.4	1612.0	1607.6	1592.5	1421.6	1029.9	1142.4
75°	601.5	575.5	569.1	547.4	584.2	595.0	634.0	655.6	709.7	781.1	865.5
77.5°	101.7	99.5	125.5	160.1	220.7	283.4	350.5	370.0	456.5	540.9	595.0
80°	56.3	58.4	75.7	93.0	123.3	168.8	216.4	229.4	281.3	326.7	370.0
82.5°	30.3	30.3	38.9	49.8	67.1	88.7	116.8	127.7	162.3	190.4	220.7
85°	10.8	10.8	15.1	19.5	28.1	36.8	45.4	51.9	71.4	97.4	110.3
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.7	8.7	10.8	19.5	28.1
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°	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1	8209.1
2.5°	8252.4	8194.0	8274.0	8310.8	8323.8	8332.4	8276.2	8237.2	8224.2	8183.1	8159.3
5°	8282.7	8243.7	8319.4	8319.4	8265.4	8209.1	8094.4	8014.4	7958.1	7891.0	7880.2
7.5°	8334.6	8306.5	8347.6	8263.2	8126.9	7975.4	7776.4	7620.6	7495.1	7412.9	7415.0
10°	8403.8	8369.2	8336.8	8148.5	7899.7	7620.6	7315.5	7088.3	6880.6	6785.4	6733.5
12.5°	8449.3	8399.5	8263.2	7951.6	7586.0	7211.6	6781.1	6443.5	6142.8	6006.4	5995.6
15°	8505.5	8414.7	8142.0	7696.3	7187.8	6677.2	6123.3	5653.8	5247.0	5034.9	5024.1
17.5°	8579.1	8429.8	7997.1	7404.2	6768.1	6015.1	5318.4	4727.7	4295.0	4130.5	4158.6
20°	8683.0	8447.1	7832.6	7079.6	6246.6	5262.1	4394.5	3851.4	3684.8	3674.0	3652.3
22.5°	8799.8	8457.9	7650.9	6716.1	5614.8	4459.4	3630.7	3399.2	3397.0	3451.1	3464.1
25°	8931.8	8466.6	7445.3	6292.1	4931.1	3658.8	3210.9	3141.7	3195.8	3297.5	3310.5
27.5°	9100.5	8483.9	7196.5	5826.9	4204.1	3161.2	2979.4	2962.1	3027.0	3122.2	3117.9
30°	9349.4	8546.6	6932.5	5292.4	3457.6	2925.3	2838.8	2840.9	2866.9	2912.3	2918.8
32.5°	9602.5	8644.0	6675.0	4690.9	3029.2	2791.2	2752.2	2747.9	2747.9	2767.4	2771.7
35°	9842.7	8754.4	6395.9	4063.4	2821.5	2713.3	2687.3	2674.3	2667.8	2663.5	2657.0
37.5°	9976.8	8808.4	6123.3	3444.6	2711.1	2661.4	2635.4	2618.1	2594.3	2577.0	2572.6
40°	9918.4	8745.7	5807.4	2981.6	2644.0	2611.6	2581.3	2557.5	2525.0	2509.9	2501.2
42.5°	9723.7	8551.0	5463.4	2763.1	2590.0	2557.5	2520.7	2481.8	2460.1	2447.2	2445.0
45°	9518.1	8315.1	5047.9	2635.4	2538.0	2499.1	2455.8	2412.5	2388.7	2382.2	2380.1
47.5°	9511.7	8198.3	4606.5	2533.7	2475.3	2436.3	2382.2	2339.0	2313.0	2304.3	2295.7
50°	9797.3	8317.3	4108.9	2445.0	2410.4	2369.3	2308.7	2261.1	2228.6	2217.8	2215.6
52.5°	10390.1	8765.2	3663.2	2356.3	2323.8	2276.2	2226.5	2178.9	2139.9	2120.4	2118.3
55°	11030.6	9334.2	3386.2	2265.4	2222.1	2181.0	2135.6	2083.6	2040.4	2010.1	2005.8
57.5°	11692.7	9955.2	3301.8	2150.7	2118.3	2090.1	2036.0	1979.8	1930.0	1901.9	1895.4
60°	12237.9	10489.6	3459.8	2029.6	2012.2	1975.5	1925.7	1871.6	1837.0	1815.3	1811.0
62.5°	10245.1	8540.1	2793.3	1897.6	1897.6	1858.6	1802.4	1763.4	1739.6	1724.5	1720.1
65°	6501.9	5288.1	1906.2	1765.6	1763.4	1711.5	1663.9	1637.9	1627.1	1603.3	1599.0
67.5°	2832.3	2416.9	1629.3	1631.4	1622.8	1566.5	1518.9	1499.4	1477.8	1451.8	1449.7
70°	1469.2	1497.3	1458.3	1482.1	1467.0	1399.9	1354.5	1324.2	1278.8	1252.8	1254.9
72.5°	1185.7	1216.0	1259.3	1296.1	1263.6	1209.5	1138.1	1101.3	1042.9	1014.8	1016.9
75°	904.4	936.9	978.0	1016.9	991.0	923.9	878.5	841.7	774.6	742.2	748.6
77.5°	623.1	640.5	690.2	688.1	679.4	659.9	592.9	549.6	480.3	441.4	445.7
80°	387.3	398.1	421.9	432.7	428.4	402.4	348.4	315.9	274.8	251.0	253.2
82.5°	233.7	240.2	261.8	264.0	261.8	242.3	201.2	177.4	151.5	138.5	138.5
85°	119.0	123.3	136.3	136.3	123.3	103.9	93.0	82.2	67.1	60.6	60.6
87.5°	32.5	32.5	41.1	34.6	28.1	26.0	13.0	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)