

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: P641167

Luminaire Tested: GWS-SA5F-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40453.6 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

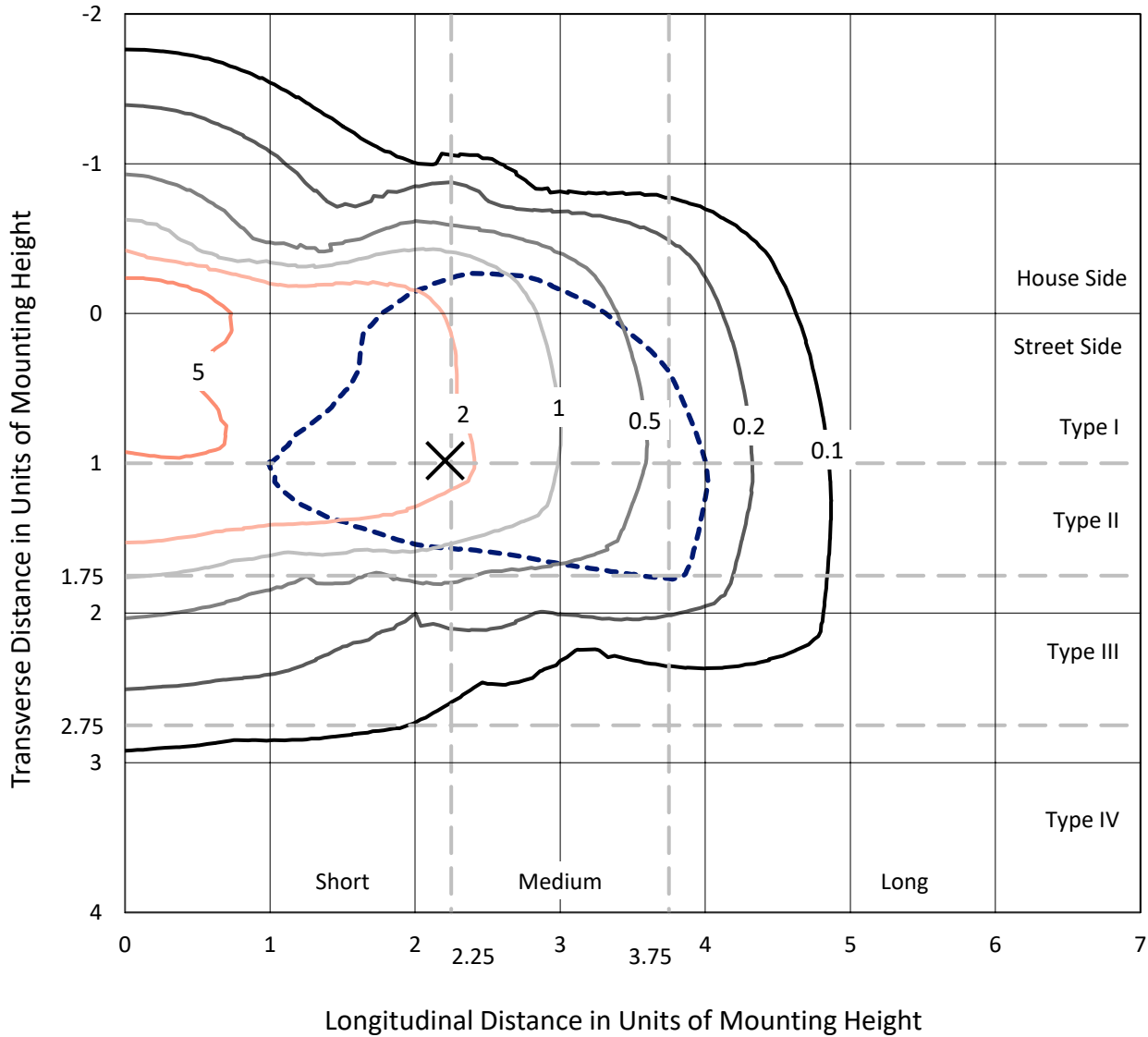
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641167
 CATALOG NUMBER: GWS-SA5F-735-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

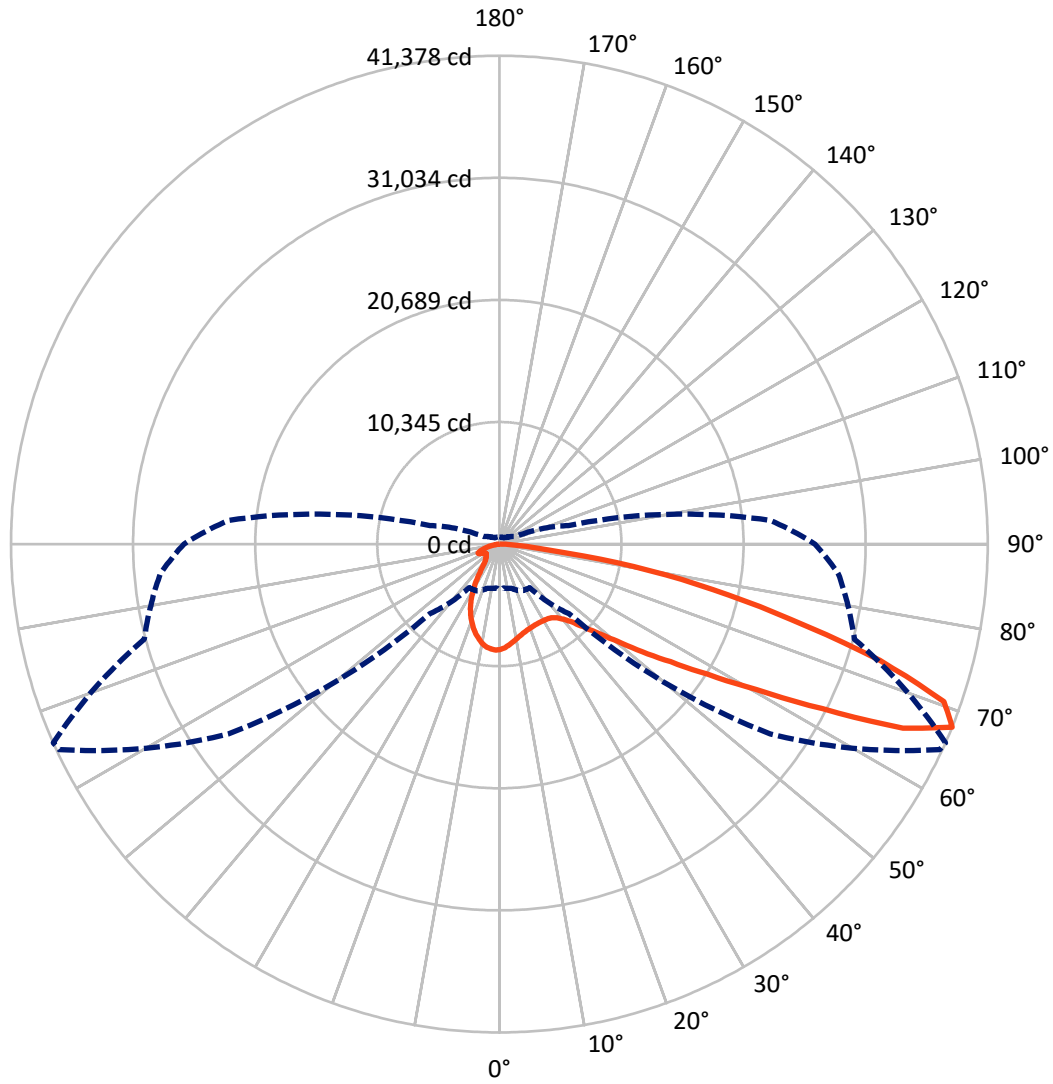
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P641167
CATALOG NUMBER: GWS-SA5F-735-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P641167

CATALOG NUMBER: GWS-SA5F-735-U-SL2-W

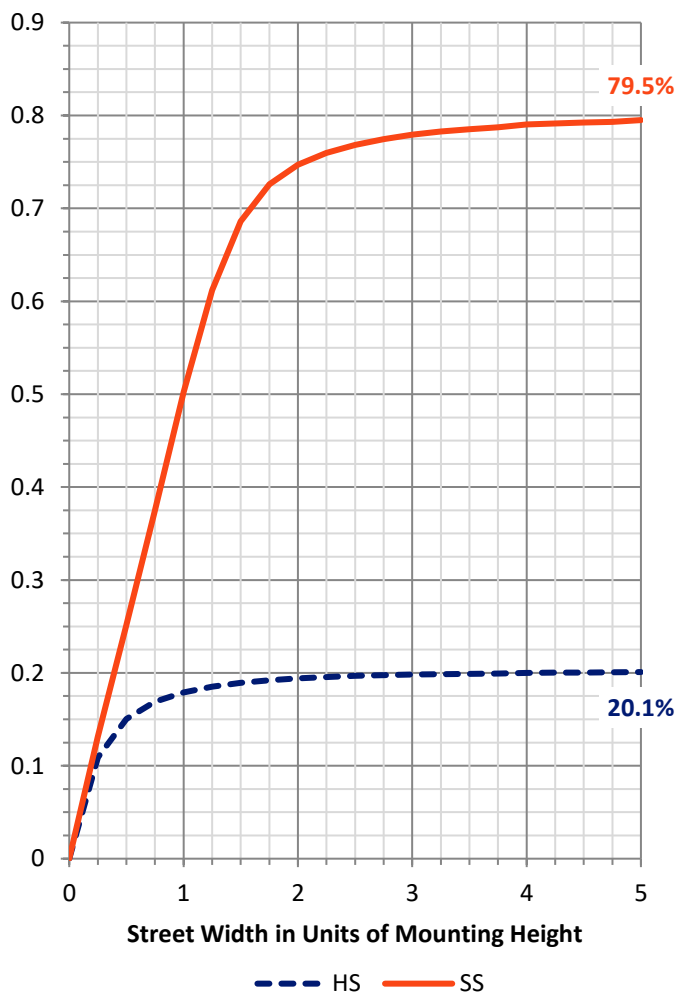
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8209.0	0.0	8209.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	32244.6	0.0	32244.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	40453.6	0.0	40453.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.5	1.9
10°-20°	1928.1	4.8
20°-30°	2650.2	6.6
30°-40°	3623.2	9.0
40°-50°	5490.1	13.6
50°-60°	8534.5	21.1
60°-70°	10390.6	25.7
70°-80°	6329.5	15.6
80°-90°	723.0	1.8
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°	40453.6	100.0
0°-180°	40453.6	100.0

Coefficient of Utilization



REPORT NUMBER: P641167

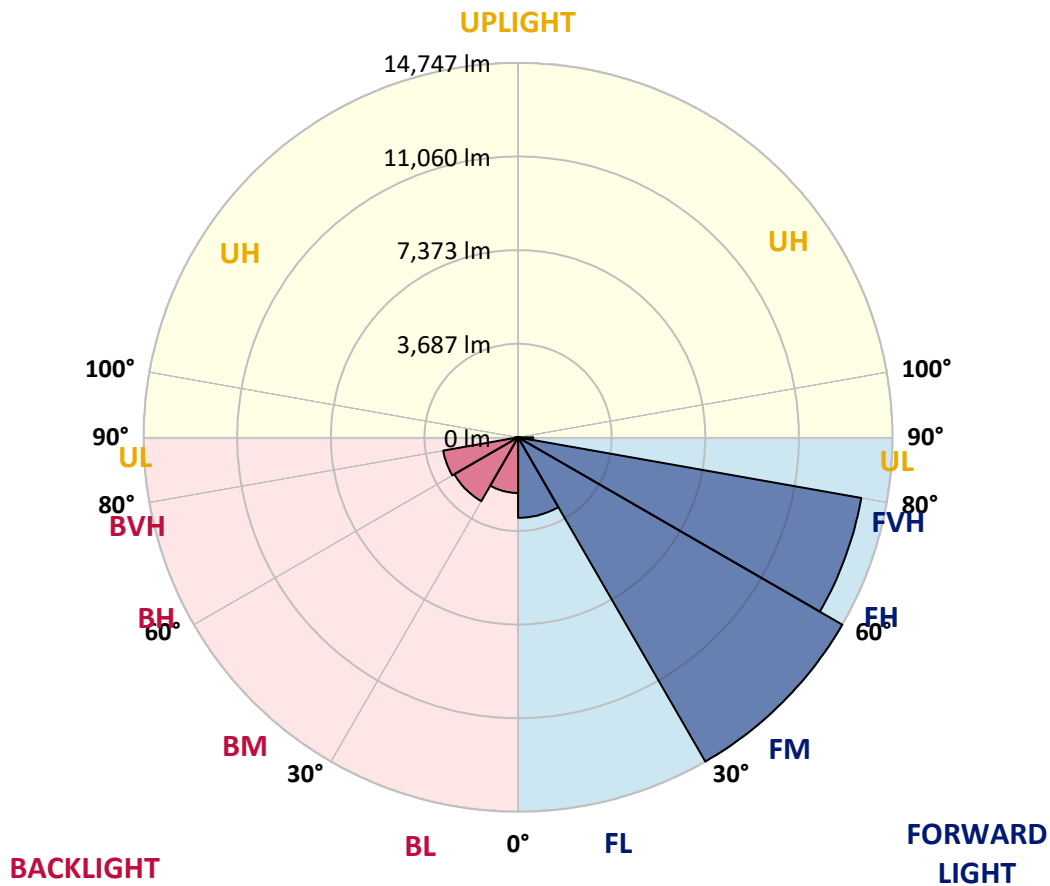
CATALOG NUMBER: GWS-SA5F-735-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3169.7	7.8			
FM (30°-60°)	14746.9	36.5			
FH (60°-80°)	13726.9	33.9			G5
FVH (80°-90°)	601.1	1.5			G4/750
BL (0°-30°)	2193.0	5.4	B3/2500		
BM (30°-60°)	2901.0	7.2	B3/5000		
BH (60°-80°)	2993.1	7.4	B4/5000		G4/5000
BVH (80°-90°)	121.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P641167
 CATALOG NUMBER: GWS-SA5F-735-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1
2.5°	8372.5	8402.0	8384.3	8496.4	8502.3	8644.0	8723.7	8791.5	8797.4	8886.0	8945.0
5°	7799.9	7817.7	7817.7	7923.9	7994.7	8183.6	8366.6	8561.3	8576.1	8788.6	8950.9
7.5°	7336.6	7354.3	7342.5	7484.2	7575.7	7785.2	8018.3	8316.4	8345.9	8688.2	8971.6
10°	6973.6	6967.7	6997.2	7127.1	7245.1	7496.0	7755.7	8095.1	8139.3	8573.2	8995.2
12.5°	6725.7	6731.6	6749.3	6885.1	7012.0	7259.9	7528.4	7897.3	7944.6	8440.3	8983.4
15°	6607.7	6595.9	6610.6	6734.6	6855.6	7074.0	7351.4	7732.1	7779.3	8322.3	8986.3
17.5°	6581.1	6572.3	6569.3	6657.8	6749.3	6953.0	7218.6	7605.2	7655.3	8245.6	9004.0
20°	6663.7	6651.9	6619.5	6657.8	6696.2	6867.4	7124.1	7513.7	7569.8	8195.4	9039.4
22.5°	6891.0	6870.3	6820.2	6772.9	6722.8	6826.1	7065.1	7445.8	7501.9	8162.9	9074.9
25°	7236.3	7218.6	7165.4	7059.2	6876.2	6858.5	7053.3	7416.3	7472.4	8139.3	9089.6
27.5°	7711.4	7684.8	7631.7	7478.3	7180.2	6979.5	7097.6	7413.3	7466.5	8112.8	9074.9
30°	8275.1	8257.4	8227.9	8041.9	7643.5	7236.3	7197.9	7437.0	7478.3	8098.0	9045.3
32.5°	8847.6	8829.9	8853.5	8765.0	8275.1	7661.2	7416.3	7501.9	7531.4	8095.1	9018.8
35°	9352.3	9372.9	9544.1	9558.8	9077.8	8236.7	7761.6	7652.4	7658.3	8154.1	9030.6
37.5°	9880.5	9960.2	10184.5	10376.3	9975.0	8998.1	8275.1	7935.7	7929.8	8304.6	9104.4
40°	10579.9	10615.4	10901.6	11261.7	11010.8	10042.8	9004.0	8399.0	8357.7	8611.5	9302.1
42.5°	11261.7	11347.3	11804.7	12217.8	12135.2	11220.4	9921.8	9092.6	9018.8	9154.5	9709.4
45°	12129.3	12211.9	12725.4	13256.7	13407.2	12551.3	11096.4	10078.2	10004.5	9972.0	10456.0
47.5°	12997.0	13082.5	13542.9	14310.2	14838.5	14215.8	12625.1	11379.7	11258.7	11131.8	11583.3
50°	13581.3	13681.6	14121.4	15042.1	16281.6	16293.4	14437.1	13085.5	12932.0	12731.4	13171.1
52.5°	13560.6	13625.6	14044.6	15107.0	17320.4	18680.9	16863.0	15257.6	15133.6	14696.8	15080.5
55°	12495.3	12592.6	13014.7	14342.7	17432.6	20944.5	20428.0	17819.2	17597.8	16815.8	17237.8
57.5°	10355.7	10438.3	10863.3	12501.2	16438.0	22104.3	24955.1	21083.2	20779.2	19123.6	19610.5
60°	7817.7	7717.3	7918.0	9352.3	14059.4	22133.8	28951.0	25509.9	25002.3	21590.8	21998.0
62.5°	5866.9	5766.6	5810.9	6215.2	9532.3	20345.4	31229.3	31565.7	30727.6	24376.7	24297.0
65°	4636.3	4580.2	4707.1	4984.5	5557.1	15493.6	31247.0	38114.4	37586.1	27605.3	26655.0
67.5°	3777.5	3742.1	3871.9	4385.4	4506.4	8325.3	28018.4	41171.8	41378.4	31140.8	28841.8
70°	3042.7	2989.5	3193.2	3869.0	4190.7	5037.6	20070.9	39613.6	39947.1	33247.9	28225.0
72.5°	2101.2	2104.2	2207.5	3134.1	4046.1	4350.0	11353.2	32985.2	33708.3	31338.5	24813.4
75°	1416.6	1428.4	1457.9	2068.8	3727.3	4220.2	6049.9	24972.8	25483.4	25902.4	20510.6
77.5°	855.8	861.7	929.6	1251.3	2570.5	3939.8	4099.2	18102.5	18503.8	17075.5	12713.6
80°	495.8	516.5	578.4	838.1	1735.3	2960.0	3172.5	11099.4	11553.8	7590.4	4040.2
82.5°	218.4	233.1	315.8	486.9	1012.3	2517.3	2476.0	4385.4	4320.5	2116.0	1401.8
85°	38.4	47.2	67.9	153.5	371.8	1328.0	1921.2	1936.0	1820.9	802.7	581.4
87.5°	0.0	0.0	0.0	0.0	0.0	8.9	289.2	519.4	516.5	227.2	200.7
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: P641167
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1
2.5°	8983.4	8903.7	8974.5	8983.4	8968.6	8956.8	8868.3	8791.5	8782.7	8700.1	8700.1
5°	9015.8	8942.0	8977.5	8909.6	8803.3	8694.1	8505.3	8375.4	8316.4	8210.2	8210.2
7.5°	9060.1	8983.4	8942.0	8773.8	8525.9	8286.9	7982.9	7729.1	7625.8	7475.3	7469.4
10°	9101.4	9004.0	8862.4	8534.8	8139.3	7758.6	7316.0	6955.9	6711.0	6530.9	6530.9
12.5°	9098.5	8971.6	8691.2	8207.2	7661.2	7109.4	6519.1	5976.1	5651.5	5371.1	5353.4
15°	9092.6	8918.4	8472.8	7826.5	7103.5	6339.1	5536.4	4828.1	4347.1	4072.6	4049.0
17.5°	9086.7	8850.6	8227.9	7392.7	6424.7	5382.9	4323.5	3556.2	3154.8	2986.6	2992.5
20°	9086.7	8773.8	7965.2	6893.9	5642.6	4237.9	3172.5	2614.7	2514.4	2523.3	2532.1
22.5°	9060.1	8679.4	7673.0	6350.9	4772.0	3116.4	2340.3	2151.4	2204.5	2287.2	2299.0
25°	8998.1	8523.0	7333.7	5748.9	3736.2	2269.5	1909.4	1874.0	1971.4	2074.7	2104.2
27.5°	8900.7	8343.0	6953.0	5043.6	2750.5	1823.8	1679.2	1676.3	1753.0	1829.7	1856.3
30°	8797.4	8142.3	6551.6	4258.5	1992.0	1587.7	1531.7	1531.7	1570.0	1617.2	1611.3
32.5°	8676.4	7938.7	6120.7	3441.1	1623.1	1454.9	1437.2	1428.4	1434.3	1452.0	1452.0
35°	8573.2	7758.6	5678.1	2576.4	1454.9	1381.1	1363.4	1342.8	1333.9	1322.1	1328.0
37.5°	8534.8	7617.0	5220.6	1941.9	1372.3	1328.0	1298.5	1269.0	1248.3	1242.4	1239.5
40°	8596.8	7557.9	4763.2	1599.5	1313.3	1272.0	1239.5	1201.1	1183.4	1183.4	1183.4
42.5°	8838.8	7602.2	4296.9	1446.1	1272.0	1224.7	1177.5	1142.1	1136.2	1142.1	1145.1
45°	9281.4	7773.4	3812.9	1369.3	1236.5	1177.5	1121.4	1094.9	1094.9	1100.8	1100.8
47.5°	10072.3	8222.0	3334.8	1322.1	1201.1	1139.2	1080.1	1053.6	1050.6	1056.5	1056.5
50°	11441.7	9030.6	2904.0	1289.7	1174.6	1109.6	1050.6	1015.2	1006.3	1003.4	1003.4
52.5°	13168.1	10432.4	2629.5	1266.1	1142.1	1077.2	1018.2	970.9	953.2	944.4	944.4
55°	15254.6	12300.5	2629.5	1248.3	1100.8	1038.8	970.9	923.7	897.2	885.4	885.4
57.5°	17618.5	14475.5	3084.0	1233.6	1068.3	994.5	920.8	873.5	844.0	826.3	826.3
60°	20023.7	16774.5	4208.4	1212.9	1038.8	938.5	864.7	820.4	782.1	761.4	758.5
62.5°	22517.4	19306.6	5689.9	1224.7	1018.2	885.4	805.7	755.5	723.0	702.4	699.4
65°	24801.6	21717.7	6985.4	1316.2	1021.1	838.1	737.8	693.5	667.0	640.4	637.5
67.5°	26740.6	23048.6	6076.5	1502.1	1083.1	782.1	669.9	625.6	602.0	584.3	581.4
70°	25383.0	21018.2	3447.0	1617.2	1168.7	723.0	593.2	563.7	540.1	528.3	525.3
72.5°	21705.9	17795.6	2304.9	1428.4	1065.4	646.3	522.4	498.7	481.0	466.3	463.3
75°	17583.1	14112.5	1761.8	1171.6	829.3	525.3	448.6	430.9	413.2	398.4	395.5
77.5°	10402.9	8154.1	1298.5	926.7	584.3	410.2	371.8	357.1	339.4	327.6	324.6
80°	3320.1	2833.1	823.4	637.5	386.6	315.8	286.3	274.5	256.8	242.0	239.0
82.5°	1266.1	1094.9	436.8	324.6	256.8	215.4	191.8	180.0	168.2	153.5	150.5
85°	560.7	525.3	242.0	174.1	138.7	106.2	94.4	88.5	73.8	62.0	59.0
87.5°	197.7	197.7	103.3	50.2	29.5	14.8	8.9	3.0	0.0	0.0	0.0
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)