

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: P638857

Luminaire Tested: GWS-SA4F-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638857
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-SA4F-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33733 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

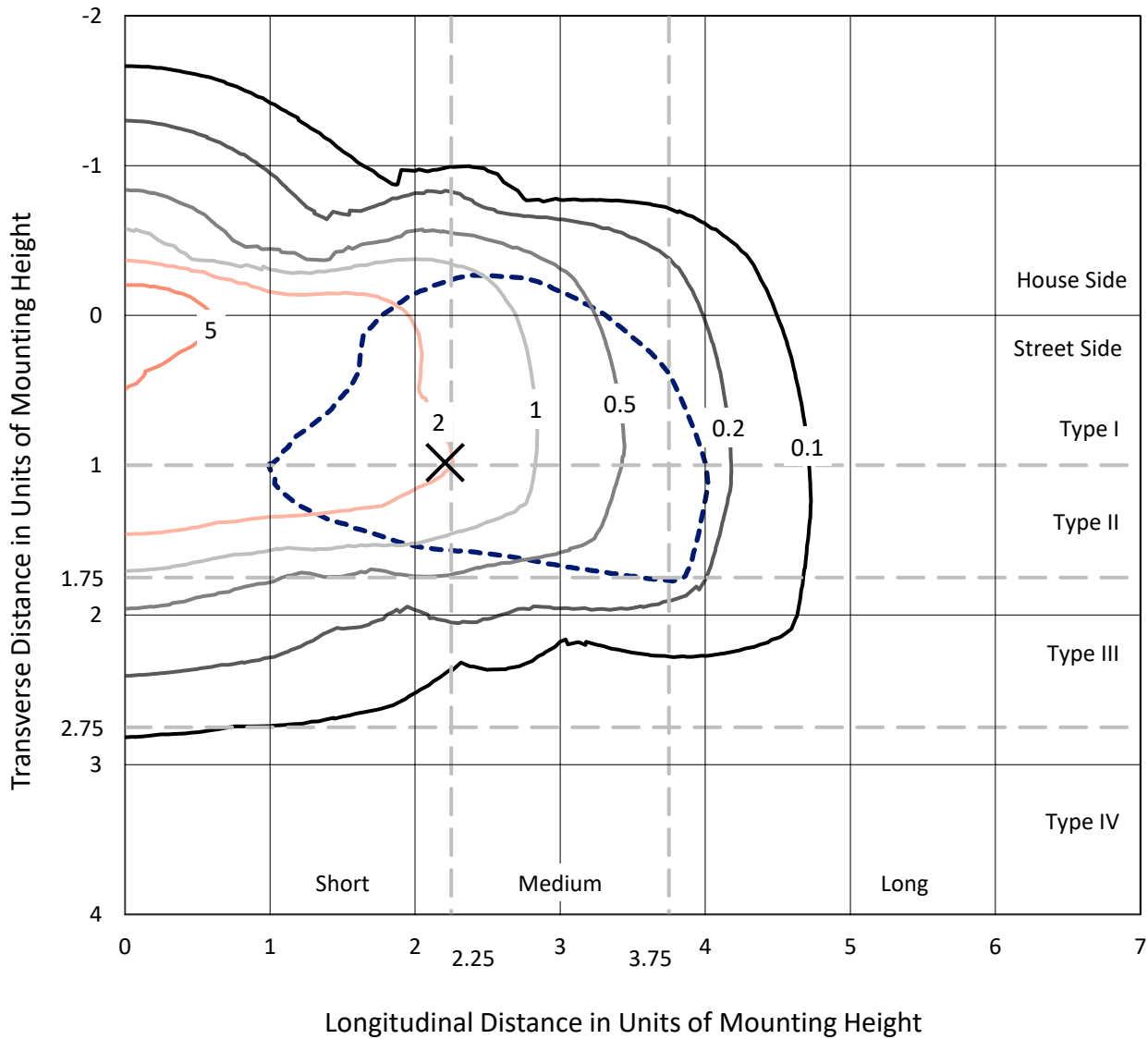
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

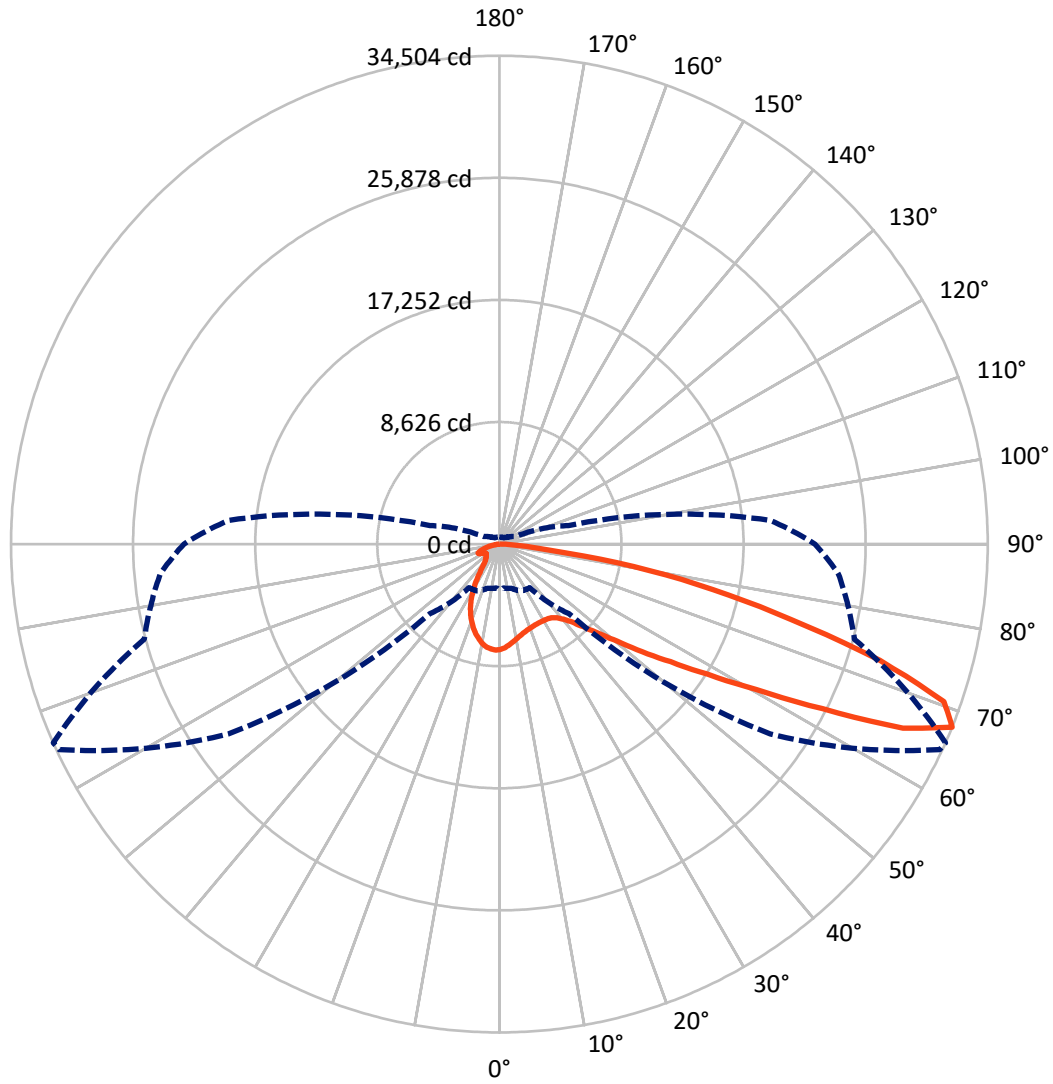
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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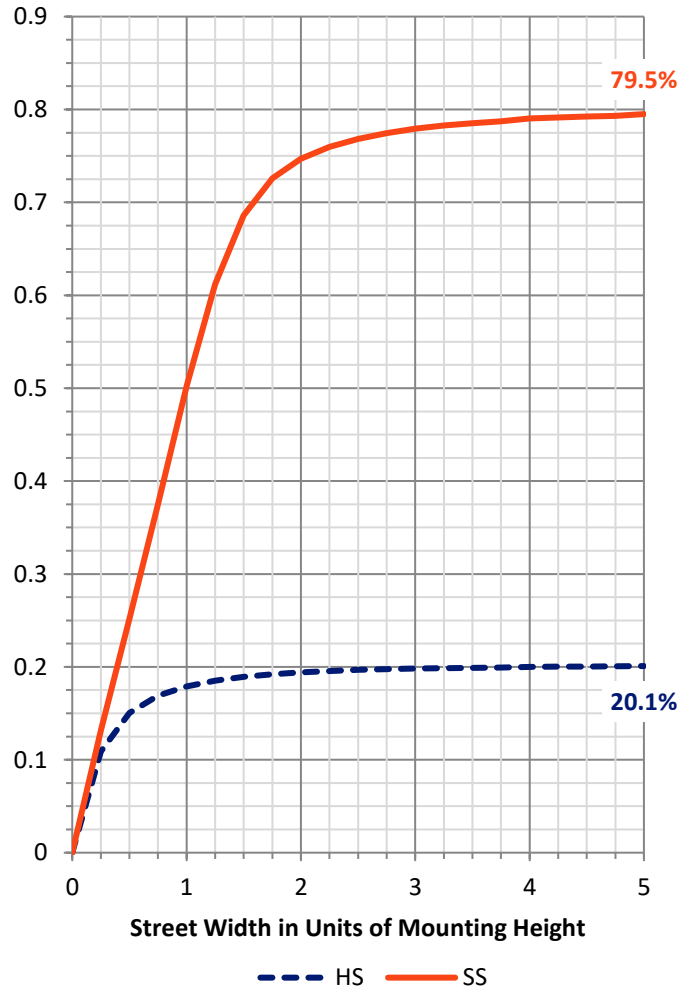
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6845.2	0.0	6845.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	26887.8	0.0	26887.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	33733.0	0.0	33733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	1.9
10°-20°	1607.7	4.8
20°-30°	2209.9	6.6
30°-40°	3021.3	9.0
40°-50°	4578.0	13.6
50°-60°	7116.7	21.1
60°-70°	8664.4	25.7
70°-80°	5277.9	15.6
80°-90°	602.9	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°	33733.0	100.0
0°-180°	33733.0	100.0

Coefficient of Utilization



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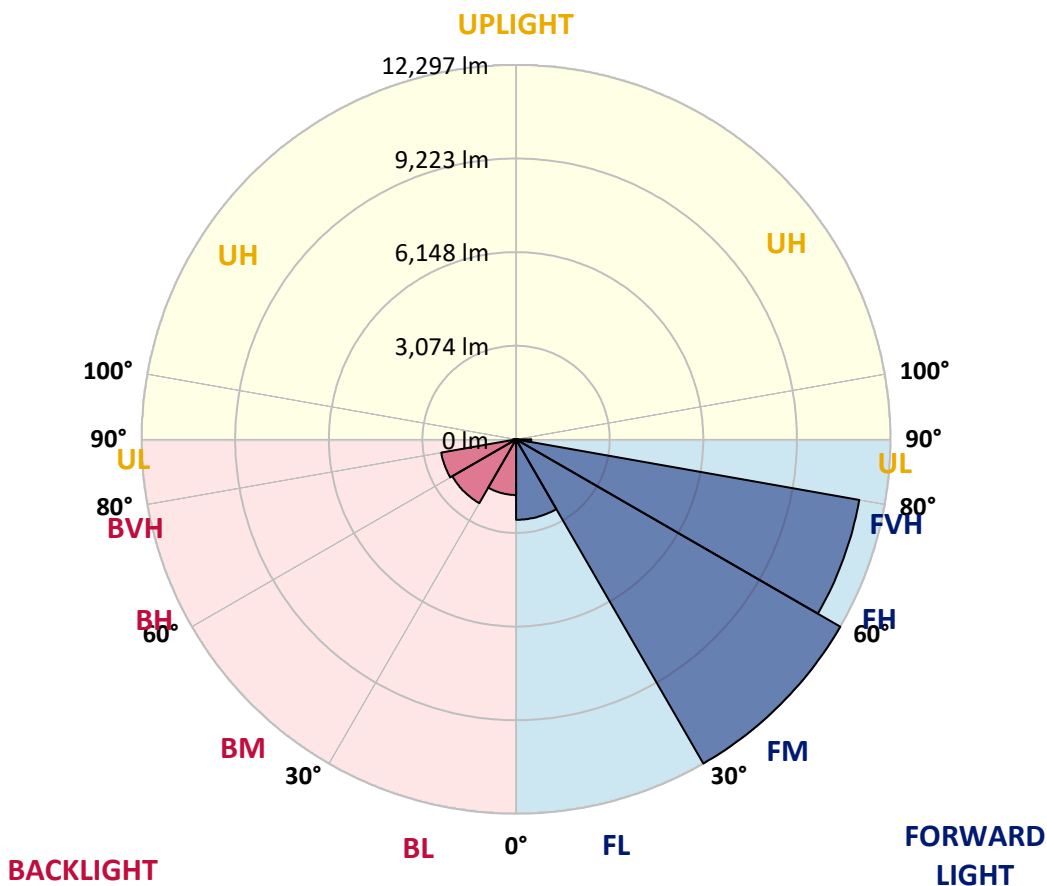
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.1	7.8			
FM (30°-60°)	12297.0	36.5			
FH (60°-80°)	11446.5	33.9			G4/12000
FVH (80°-90°)	501.2	1.5			G4/750
BL (0°-30°)	1828.7	5.4	B3/2500		
BM (30°-60°)	2419.0	7.2	B2/2500		
BH (60°-80°)	2495.9	7.4	B3/2500		G3/2500
BVH (80°-90°)	101.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0
2.5°	6981.5	7006.2	6991.4	7084.9	7089.8	7207.9	7274.4	7331.0	7335.9	7409.7	7459.0
5°	6504.1	6518.9	6518.9	6607.5	6666.6	6824.0	6976.6	7139.0	7151.3	7328.5	7463.9
7.5°	6117.8	6132.5	6122.7	6240.8	6317.1	6491.8	6686.2	6934.8	6959.4	7244.9	7481.1
10°	5815.1	5810.2	5834.8	5943.0	6041.5	6250.7	6467.2	6750.2	6787.1	7148.9	7500.8
12.5°	5608.4	5613.3	5628.1	5741.3	5847.1	6053.8	6277.7	6585.3	6624.7	7038.1	7490.9
15°	5509.9	5500.1	5512.4	5615.8	5716.6	5898.8	6130.1	6447.5	6486.9	6939.7	7493.4
17.5°	5487.8	5480.4	5477.9	5551.8	5628.1	5797.9	6019.3	6341.7	6383.5	6875.7	7508.2
20°	5556.7	5546.8	5519.8	5551.8	5583.8	5726.5	5940.6	6265.4	6312.2	6833.9	7537.7
22.5°	5746.2	5729.0	5687.1	5647.7	5605.9	5692.0	5891.4	6208.8	6255.6	6806.8	7567.2
25°	6034.1	6019.3	5975.0	5886.4	5733.9	5719.1	5881.5	6184.2	6231.0	6787.1	7579.5
27.5°	6430.3	6408.2	6363.9	6235.9	5987.3	5820.0	5918.4	6181.8	6226.1	6765.0	7567.2
30°	6900.3	6885.6	6861.0	6705.9	6373.7	6034.1	6002.1	6201.4	6235.9	6752.7	7542.6
32.5°	7377.7	7363.0	7382.7	7308.8	6900.3	6388.5	6184.2	6255.6	6280.2	6750.2	7520.5
35°	7798.6	7815.8	7958.5	7970.8	7569.7	6868.3	6472.1	6381.1	6386.0	6799.4	7530.3
37.5°	8239.1	8305.5	8492.5	8652.5	8317.8	7503.3	6900.3	6617.3	6612.4	6924.9	7591.8
40°	8822.3	8851.8	9090.5	9390.8	9181.6	8374.4	7508.2	7003.7	6969.2	7180.9	7756.7
42.5°	9390.8	9462.1	9843.6	10188.1	10119.2	9356.3	8273.5	7582.0	7520.5	7633.7	8096.3
45°	10114.3	10183.2	10611.4	11054.3	11179.8	10466.2	9252.9	8403.9	8342.4	8315.3	8718.9
47.5°	10837.8	10909.1	11293.0	11932.9	12373.4	11854.1	10527.7	9489.2	9388.3	9282.5	9659.0
50°	11325.0	11408.7	11775.4	12543.2	13576.7	13586.6	12038.7	10911.6	10783.6	10616.3	10983.0
52.5°	11307.8	11361.9	11711.4	12597.3	14443.0	15577.4	14061.5	12722.8	12619.4	12255.2	12575.1
55°	10419.4	10500.6	10852.5	11959.9	14536.5	17464.9	17034.3	14858.9	14674.3	14022.2	14374.1
57.5°	8635.3	8704.2	9058.5	10424.3	13707.2	18432.1	20809.3	17580.6	17327.1	15946.6	16352.6
60°	6518.9	6435.2	6602.6	7798.6	11723.7	18456.7	24141.3	21271.9	20848.7	18003.9	18343.5
62.5°	4892.2	4808.6	4845.5	5182.6	7948.7	16965.4	26041.1	26321.7	25622.8	20326.9	20260.5
65°	3866.1	3819.3	3925.1	4156.4	4633.9	12919.7	26055.9	31782.4	31341.9	23019.2	22226.8
67.5°	3149.9	3120.4	3228.7	3656.9	3757.8	6942.2	23363.7	34331.9	34504.1	25967.3	24050.3
70°	2537.2	2492.9	2662.7	3226.2	3494.5	4200.7	16736.5	33032.5	33310.6	27724.4	23536.0
72.5°	1752.2	1754.6	1840.7	2613.5	3373.9	3627.4	9467.0	27505.4	28108.3	26132.2	20691.2
75°	1181.2	1191.1	1215.7	1725.1	3108.1	3519.1	5044.8	20824.0	21249.8	21599.2	17103.2
77.5°	713.7	718.6	775.2	1043.4	2143.4	3285.3	3418.2	15095.1	15429.8	14238.7	10601.5
80°	413.4	430.7	482.3	698.9	1447.0	2468.3	2645.5	9255.4	9634.4	6329.4	3369.0
82.5°	182.1	194.4	263.3	406.0	844.1	2099.1	2064.7	3656.9	3602.7	1764.5	1168.9
85°	32.0	39.4	56.6	128.0	310.1	1107.4	1602.0	1614.3	1518.4	669.4	484.8
87.5°	0.0	0.0	0.0	0.0	0.0	7.4	241.2	433.1	430.7	189.5	167.3
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°	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0	7454.0
2.5°	7490.9	7424.5	7483.6	7490.9	7478.6	7468.8	7395.0	7331.0	7323.6	7254.7	7254.7
5°	7518.0	7456.5	7486.0	7429.4	7340.8	7249.8	7092.3	6984.0	6934.8	6846.2	6846.2
7.5°	7554.9	7490.9	7456.5	7316.2	7109.5	6910.2	6656.7	6445.1	6358.9	6233.4	6228.5
10°	7589.4	7508.2	7390.1	7116.9	6787.1	6469.7	6100.5	5800.3	5596.1	5445.9	5445.9
12.5°	7586.9	7481.1	7247.3	6843.7	6388.5	5928.3	5436.1	4983.3	4712.6	4478.8	4464.1
15°	7582.0	7436.8	7065.2	6526.3	5923.4	5286.0	4616.6	4026.0	3624.9	3396.0	3376.3
17.5°	7577.1	7380.2	6861.0	6164.5	5357.4	4488.7	3605.2	2965.4	2630.7	2490.4	2495.3
20°	7577.1	7316.2	6641.9	5748.6	4705.2	3533.8	2645.5	2180.3	2096.7	2104.1	2111.4
22.5°	7554.9	7237.5	6398.3	5295.8	3979.3	2598.7	1951.5	1794.0	1838.3	1907.2	1917.0
25°	7503.3	7107.0	6115.3	4793.8	3115.5	1892.4	1592.2	1562.7	1643.9	1730.0	1754.6
27.5°	7422.0	6956.9	5797.9	4205.7	2293.5	1520.8	1400.2	1397.8	1461.8	1525.8	1547.9
30°	7335.9	6789.6	5463.2	3551.1	1661.1	1324.0	1277.2	1277.2	1309.2	1348.6	1343.6
32.5°	7235.0	6619.8	5103.9	2869.4	1353.5	1213.2	1198.5	1191.1	1196.0	1210.8	1210.8
35°	7148.9	6469.7	4734.8	2148.4	1213.2	1151.7	1136.9	1119.7	1112.3	1102.5	1107.4
37.5°	7116.9	6351.6	4353.3	1619.3	1144.3	1107.4	1082.8	1058.2	1041.0	1036.0	1033.6
40°	7168.6	6302.3	3971.9	1333.8	1095.1	1060.6	1033.6	1001.6	986.8	986.8	986.8
42.5°	7370.4	6339.3	3583.1	1205.8	1060.6	1021.3	981.9	952.4	947.4	952.4	954.8
45°	7739.5	6482.0	3179.5	1141.9	1031.1	981.9	935.1	913.0	913.0	917.9	917.9
47.5°	8399.0	6856.0	2780.8	1102.5	1001.6	949.9	900.7	878.5	876.1	881.0	881.0
50°	9540.9	7530.3	2421.5	1075.4	979.4	925.3	876.1	846.5	839.2	836.7	836.7
52.5°	10980.5	8699.2	2192.7	1055.7	952.4	898.2	849.0	809.6	794.9	787.5	787.5
55°	12720.3	10257.0	2192.7	1041.0	917.9	866.2	809.6	770.3	748.1	738.3	738.3
57.5°	14691.5	12070.7	2571.6	1028.7	890.8	829.3	767.8	728.4	703.8	689.0	689.0
60°	16697.1	13987.7	3509.2	1011.4	866.2	782.6	721.0	684.1	652.1	634.9	632.4
62.5°	18776.6	16099.1	4744.6	1021.3	849.0	738.3	671.8	630.0	602.9	585.7	583.2
65°	20681.3	18109.7	5824.9	1097.6	851.5	698.9	615.2	578.3	556.2	534.0	531.6
67.5°	22298.1	19219.5	5067.0	1252.6	903.1	652.1	558.6	521.7	502.0	487.3	484.8
70°	21166.1	17526.5	2874.3	1348.6	974.5	602.9	494.6	470.0	450.3	440.5	438.0
72.5°	18099.8	14839.2	1922.0	1191.1	888.4	538.9	435.6	415.9	401.1	388.8	386.4
75°	14662.0	11768.0	1469.2	977.0	691.5	438.0	374.1	359.3	344.5	332.2	329.8
77.5°	8674.6	6799.4	1082.8	772.7	487.3	342.1	310.1	297.8	283.0	273.2	270.7
80°	2768.5	2362.5	686.6	531.6	322.4	263.3	238.7	228.9	214.1	201.8	199.3
82.5°	1055.7	913.0	364.2	270.7	214.1	179.6	160.0	150.1	140.3	128.0	125.5
85°	467.6	438.0	201.8	145.2	115.7	88.6	78.7	73.8	61.5	51.7	49.2
87.5°	164.9	164.9	86.1	41.8	24.6	12.3	7.4	2.5	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)