

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: P641268

Luminaire Tested: GWS-SA5F-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38732.8 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

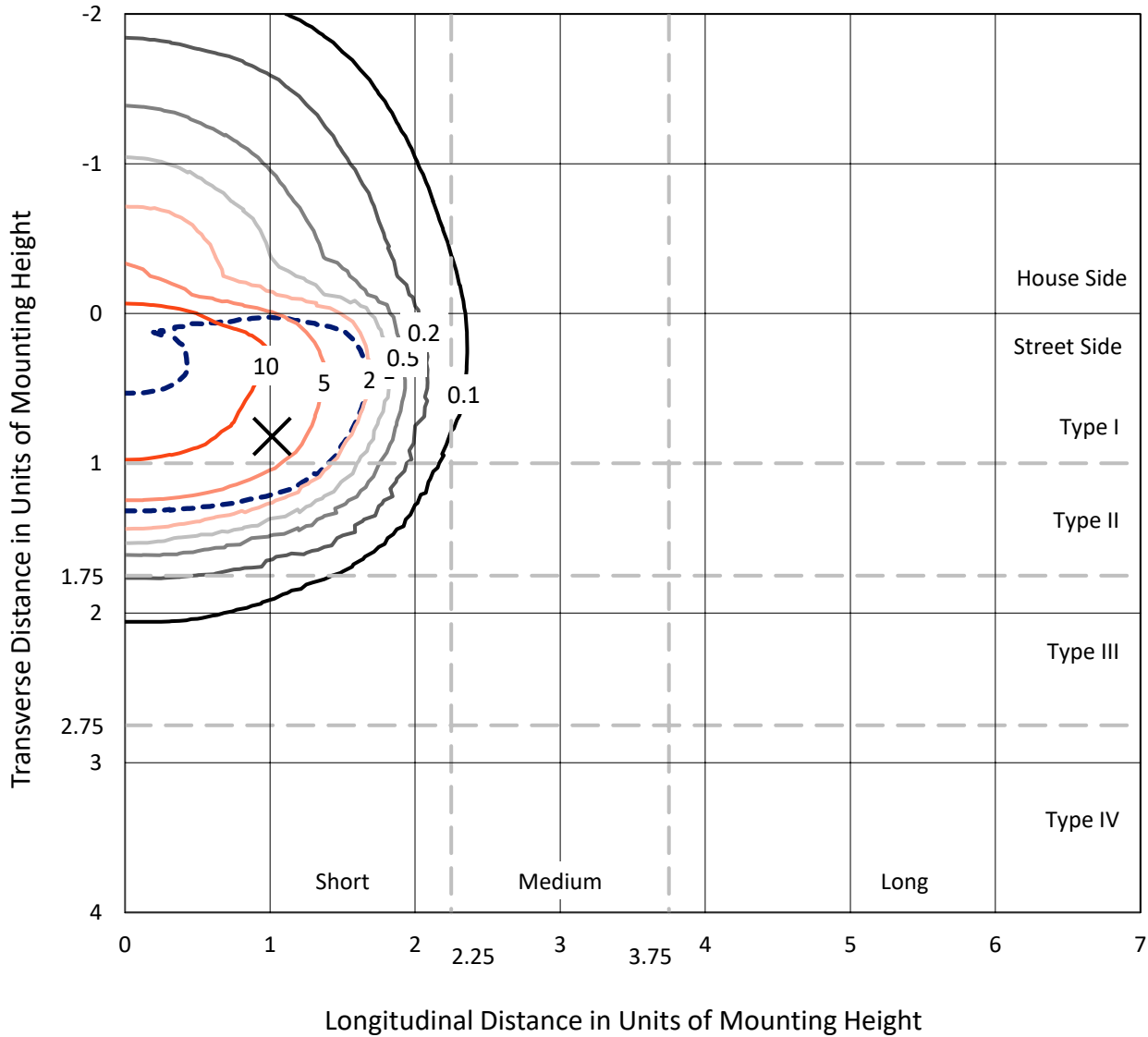
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

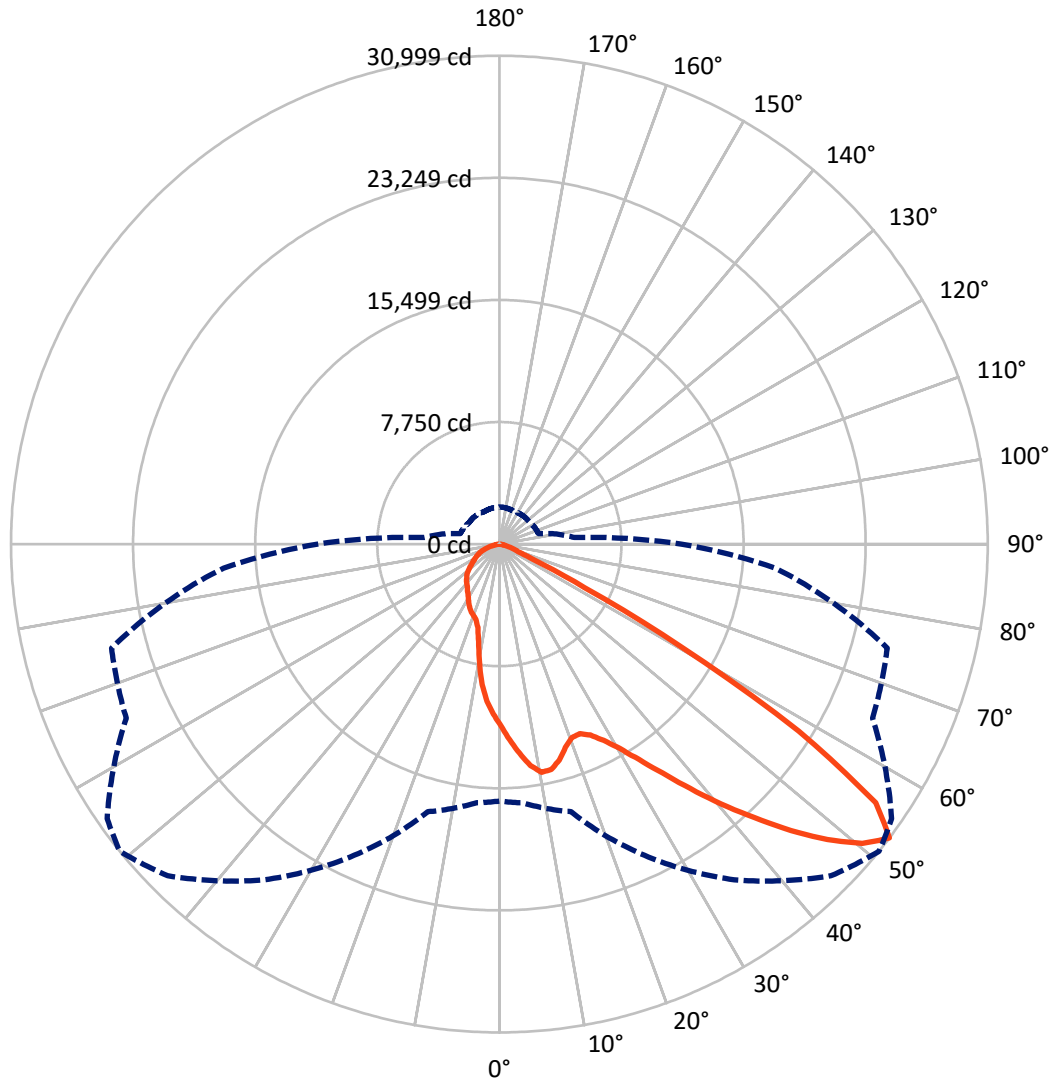
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7546.8	0.0	7546.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	31186.0	0.0	31186.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	38732.8	0.0	38732.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.2	2.8
10°-20°	2796.3	7.2
20°-30°	4546.5	11.7
30°-40°	7205.2	18.6
40°-50°	10867.1	28.1
50°-60°	9400.9	24.3
60°-70°	2131.3	5.5
70°-80°	628.4	1.6
80°-90°	80.9	0.2
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°	38732.8	100.0
0°-180°	38732.8	100.0

Coefficient of Utilization



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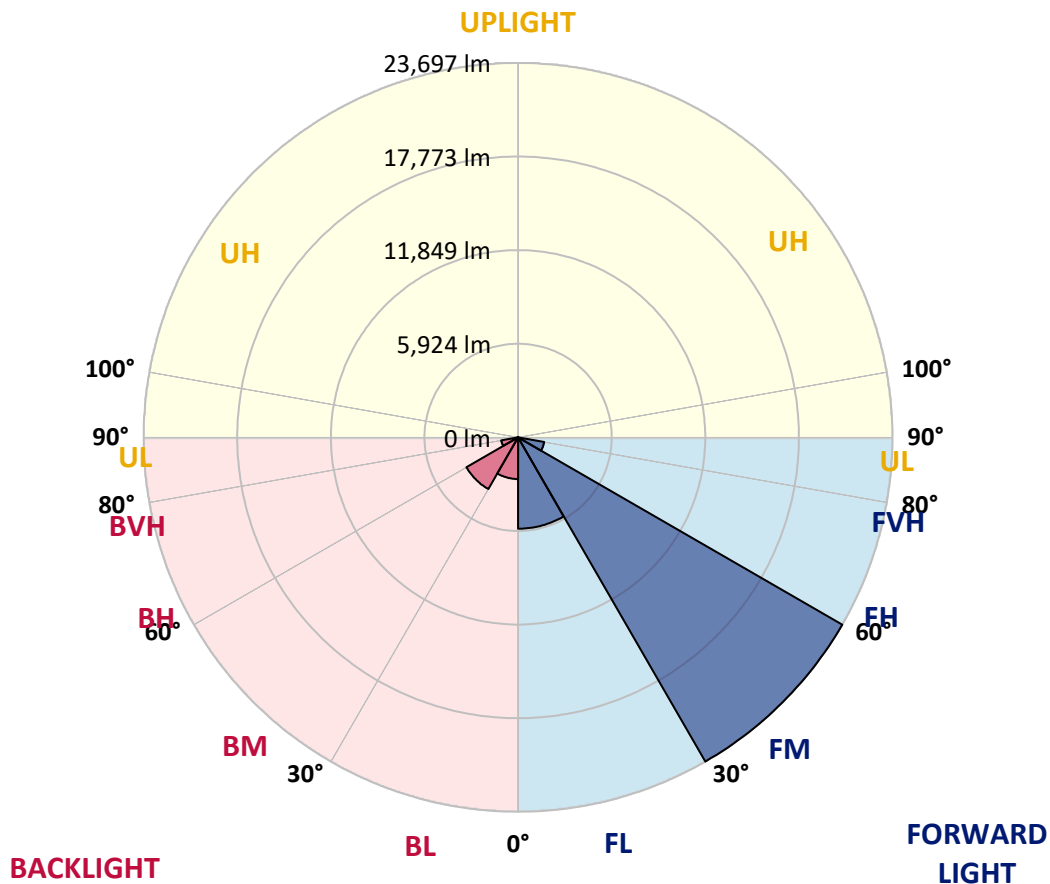
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5781.0	14.9			
FM (30°-60°)	23697.3	61.2			
FH (60°-80°)	1677.3	4.3			G1/1800
FVH (80°-90°)	30.5	0.1			G1/100
BL (0°-30°)	2638.0	6.8	B4/5000		
BM (30°-60°)	3775.9	9.7	B3/5000		
BH (60°-80°)	1082.4	2.8	B3/2500		G3/2500
BVH (80°-90°)	50.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7
2.5°	12851.8	12925.3	12812.1	12769.2	12698.8	12576.4	12435.6	12395.8	12092.8	11893.8	11670.4
5°	14143.5	14183.2	14091.4	13999.6	13825.1	13607.8	13335.4	13277.3	12726.4	12270.3	11795.9
7.5°	14431.2	14415.9	14495.4	14547.5	14526.0	14440.3	14198.5	14085.3	13427.3	12704.9	12004.0
10°	13292.6	13206.9	13500.7	13849.6	14268.9	14752.5	14725.0	14715.8	14143.5	13289.5	12270.3
12.5°	11783.7	11740.8	11979.5	12417.2	13209.9	14281.2	14682.1	14994.3	14789.3	13846.6	12567.2
15°	10920.5	10905.2	11067.5	11382.7	12013.2	13366.0	14223.0	14841.3	15343.2	14443.4	12882.5
17.5°	10764.5	10773.6	10828.7	11009.3	11462.3	12576.4	13568.0	14431.2	15774.8	15098.4	13277.3
20°	11220.5	11281.7	11186.8	11214.4	11459.2	12291.7	13121.2	14018.0	16050.3	15756.4	13702.7
22.5°	12233.6	12212.2	12004.0	11881.6	11884.7	12466.2	13072.2	13825.1	16230.8	16396.1	14088.4
25°	13381.3	13356.9	13108.9	12836.5	12665.1	12940.6	13424.2	14030.2	16393.1	16980.7	14397.5
27.5°	14737.2	14660.7	14385.3	14036.3	13656.8	13776.2	14103.7	14584.2	16644.0	17556.1	14602.6
30°	16050.3	16139.0	15744.2	15331.0	14930.1	14856.6	15046.4	15481.0	17155.2	18229.5	14847.4
32.5°	17791.8	17761.2	17323.5	16784.8	16212.5	16157.4	16307.4	16705.3	18073.4	19159.9	15220.8
35°	19900.6	19906.7	19285.4	18557.0	17742.8	17595.9	17846.9	18232.5	19441.5	20420.9	15811.5
37.5°	22092.1	22082.9	21541.1	20714.8	19603.7	19395.6	19683.3	19971.0	21152.4	22138.0	16729.7
40°	23628.5	23689.8	23435.7	23001.1	21948.2	21440.1	21694.2	21893.1	23013.3	24158.0	17938.7
42.5°	24500.8	24592.7	24647.8	24907.9	24353.9	23812.2	23720.4	23824.4	24675.3	26034.2	19074.2
45°	24687.5	24810.0	25210.9	26175.0	26389.3	26236.3	25936.3	25685.3	25914.9	27365.6	19818.0
47.5°	23864.2	24078.5	24935.5	26621.9	27873.7	28354.2	28020.6	27638.0	26631.1	27708.4	19741.5
50°	20601.5	20852.5	22783.8	25709.8	28084.9	29835.6	29866.2	29300.0	26545.4	26719.8	18780.4
52.5°	16310.4	16481.8	17586.7	21795.2	26012.8	29774.4	30998.7	30392.7	26132.2	25483.3	17577.6
55°	9748.3	10023.8	11055.2	14379.1	20264.8	26389.3	28997.0	29290.8	25930.2	24445.7	16757.3
57.5°	3290.2	3424.9	4410.5	6350.9	11942.8	19322.1	22404.3	23597.9	23539.8	22860.3	15156.5
60°	1567.1	1597.7	1796.6	2408.8	4780.8	10097.2	13262.0	14639.3	15894.2	16019.7	9430.0
62.5°	1193.7	1212.0	1313.0	1444.6	1922.1	4254.4	6078.5	7131.4	7618.1	6537.6	3434.1
65°	997.8	1013.1	1089.6	1172.2	1306.9	1842.5	2332.2	2690.3	2424.1	1888.4	1637.5
67.5°	832.5	844.8	902.9	991.7	1083.5	1233.5	1294.7	1331.4	1395.7	1567.1	1505.9
70°	651.9	664.2	725.4	801.9	890.7	927.4	985.5	1022.3	1150.8	1371.2	1365.1
72.5°	502.0	517.3	550.9	599.9	673.4	710.1	774.4	817.2	890.7	1068.2	1141.6
75°	367.3	376.5	407.1	422.4	431.6	422.4	486.7	535.6	633.6	700.9	719.3
77.5°	150.0	168.3	162.2	162.2	192.8	232.6	266.3	296.9	364.2	404.0	407.1
80°	61.2	67.3	79.6	88.8	107.1	137.7	159.2	171.4	202.0	226.5	244.9
82.5°	36.7	39.8	45.9	49.0	61.2	79.6	91.8	101.0	125.5	150.0	159.2
85°	18.4	18.4	21.4	24.5	30.6	36.7	42.8	49.0	64.3	79.6	88.8
87.5°	3.1	3.1	3.1	6.1	9.2	12.2	15.3	18.4	21.4	24.5	30.6
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°	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7	11532.7
2.5°	11538.8	11373.5	11180.7	11027.7	10850.2	10718.5	10531.8	10415.5	10305.3	10213.5	10146.2
5°	11551.1	11272.5	10871.6	10516.5	10149.3	9800.3	9442.2	9151.5	8891.3	8674.0	8655.6
7.5°	11621.4	11220.5	10593.1	9971.7	9255.5	8563.8	7872.1	7308.9	6880.4	6657.0	6611.1
10°	11740.8	11214.4	10308.4	9316.7	8095.5	6981.4	6161.2	5732.7	5484.8	5396.0	5365.4
12.5°	11866.3	11199.1	9944.2	8392.4	6696.8	5720.4	5270.5	5218.5	5264.4	5270.5	5267.5
15°	12019.3	11189.9	9485.1	7308.9	5674.5	5135.8	5166.4	5276.6	5383.8	5408.2	5408.2
17.5°	12206.0	11168.5	8860.7	6249.9	5034.8	5022.6	5184.8	5331.7	5432.7	5451.1	5451.1
20°	12401.9	11113.4	8092.5	5386.8	4774.7	4952.2	5126.7	5239.9	5310.3	5334.8	5337.8
22.5°	12536.6	10966.5	7207.9	4747.1	4612.5	4817.5	4943.0	5059.3	5059.3	4998.1	4979.7
25°	12564.1	10651.2	6249.9	4309.5	4419.6	4609.4	4738.0	4670.6	4545.1	4496.2	4493.1
27.5°	12463.1	10192.1	5304.2	3997.3	4187.0	4376.8	4355.4	4257.4	4202.3	4153.4	4171.7
30°	12340.7	9641.2	4483.9	3740.2	3917.7	4104.4	4030.9	3997.3	3957.5	3902.4	3914.6
32.5°	12258.1	9026.0	3853.4	3541.2	3737.1	3767.7	3819.7	3816.7	3780.0	3675.9	3669.8
35°	12282.6	8404.7	3431.0	3379.0	3587.1	3574.9	3672.8	3654.5	3400.4	3256.6	3247.4
37.5°	12478.4	7807.8	3183.1	3250.5	3348.4	3424.9	3510.6	3290.2	3201.5	3109.7	3115.8
40°	12851.8	7253.8	3048.4	3180.1	3204.5	3317.8	3118.8	3115.8	3076.0	2993.4	2990.3
42.5°	13274.2	6785.6	2956.6	3146.4	3112.7	3134.1	2923.0	2947.4	2944.4	2892.4	2877.1
45°	13531.3	6354.0	2883.2	3020.9	3030.1	2815.8	2751.6	2779.1	2794.4	2766.9	2763.8
47.5°	13265.0	5858.2	2806.7	2828.1	2907.7	2672.0	2592.4	2595.5	2623.0	2626.1	2613.8
50°	12518.2	5304.2	2714.8	2662.8	2610.8	2522.0	2448.6	2433.3	2460.8	2488.3	2497.5
52.5°	11554.1	4774.7	2561.8	2482.2	2359.8	2359.8	2326.1	2277.2	2313.9	2350.6	2362.9
55°	10847.1	4382.9	2344.5	2255.7	2121.1	2167.0	2160.8	2118.0	2167.0	2194.5	2203.7
57.5°	9399.4	3522.9	2062.9	2035.4	1922.1	1977.2	1989.4	1934.4	1909.9	1916.0	1925.2
60°	5579.6	2274.1	1860.9	1857.8	1756.8	1821.1	1857.8	1802.7	1729.3	1738.5	1750.7
62.5°	2503.6	1738.5	1606.9	1594.6	1591.6	1674.2	1714.0	1662.0	1557.9	1567.1	1579.3
65°	1576.3	1502.8	1395.7	1395.7	1444.6	1515.0	1545.6	1502.8	1383.4	1368.1	1380.4
67.5°	1463.0	1398.7	1288.6	1267.1	1291.6	1349.8	1352.8	1270.2	1199.8	1187.5	1187.5
70°	1313.0	1264.1	1156.9	1114.1	1104.9	1101.8	1092.7	1071.2	1025.3	1013.1	1019.2
72.5°	1086.5	1052.9	985.5	939.6	915.1	912.1	875.4	857.0	817.2	811.1	808.0
75°	719.3	728.4	728.4	722.3	700.9	691.7	651.9	633.6	587.7	569.3	566.2
77.5°	425.4	434.6	446.9	449.9	446.9	446.9	410.1	388.7	342.8	318.3	312.2
80°	260.2	266.3	272.4	281.6	269.3	260.2	226.5	205.1	183.6	168.3	165.3
82.5°	168.3	174.5	177.5	183.6	177.5	165.3	137.7	125.5	110.2	97.9	94.9
85°	94.9	97.9	104.1	104.1	94.9	85.7	70.4	61.2	52.0	45.9	45.9
87.5°	33.7	33.7	33.7	36.7	30.6	27.5	18.4	12.2	9.2	9.2	9.2
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)