

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: P641270

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
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
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43476.8 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

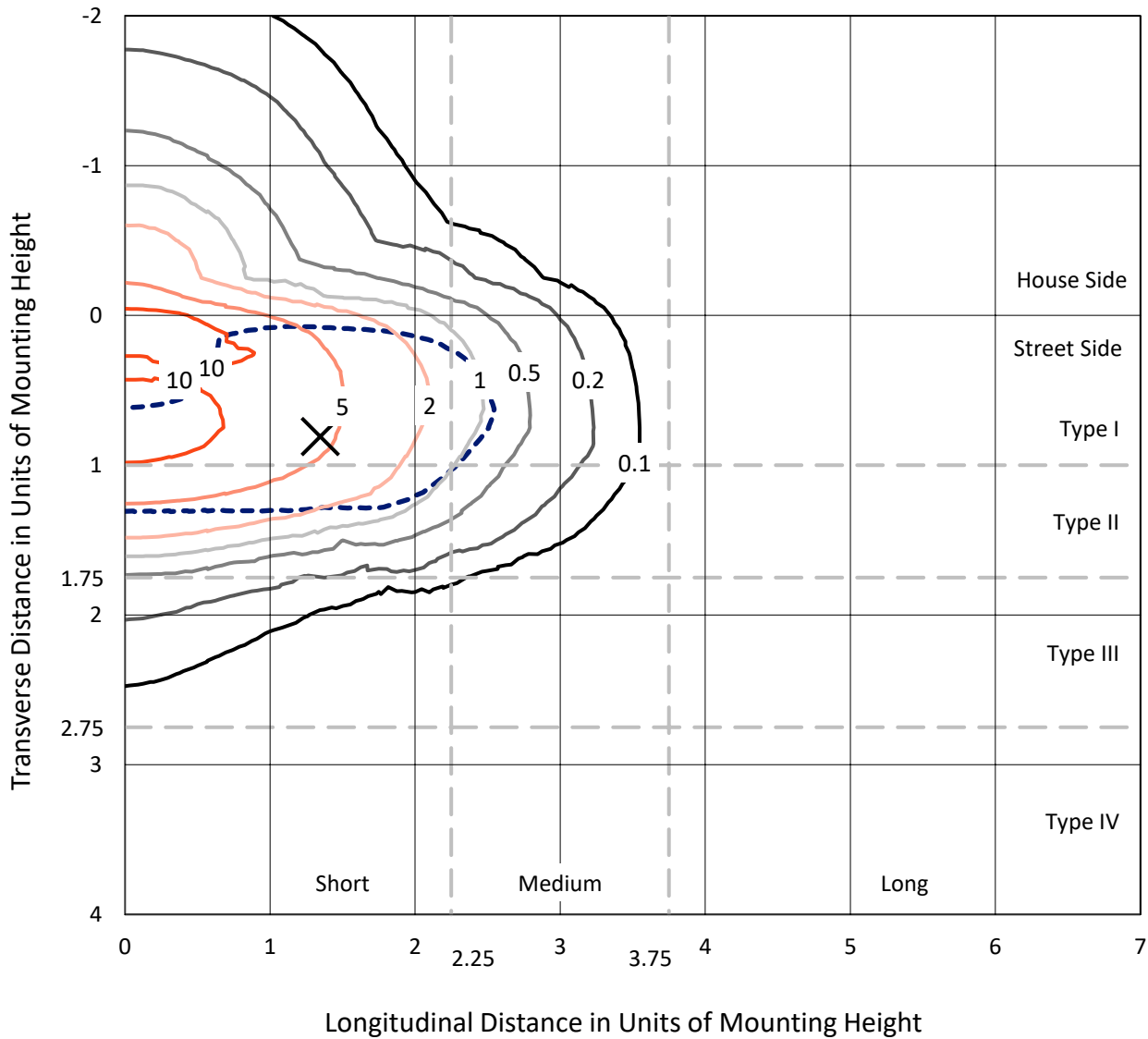
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

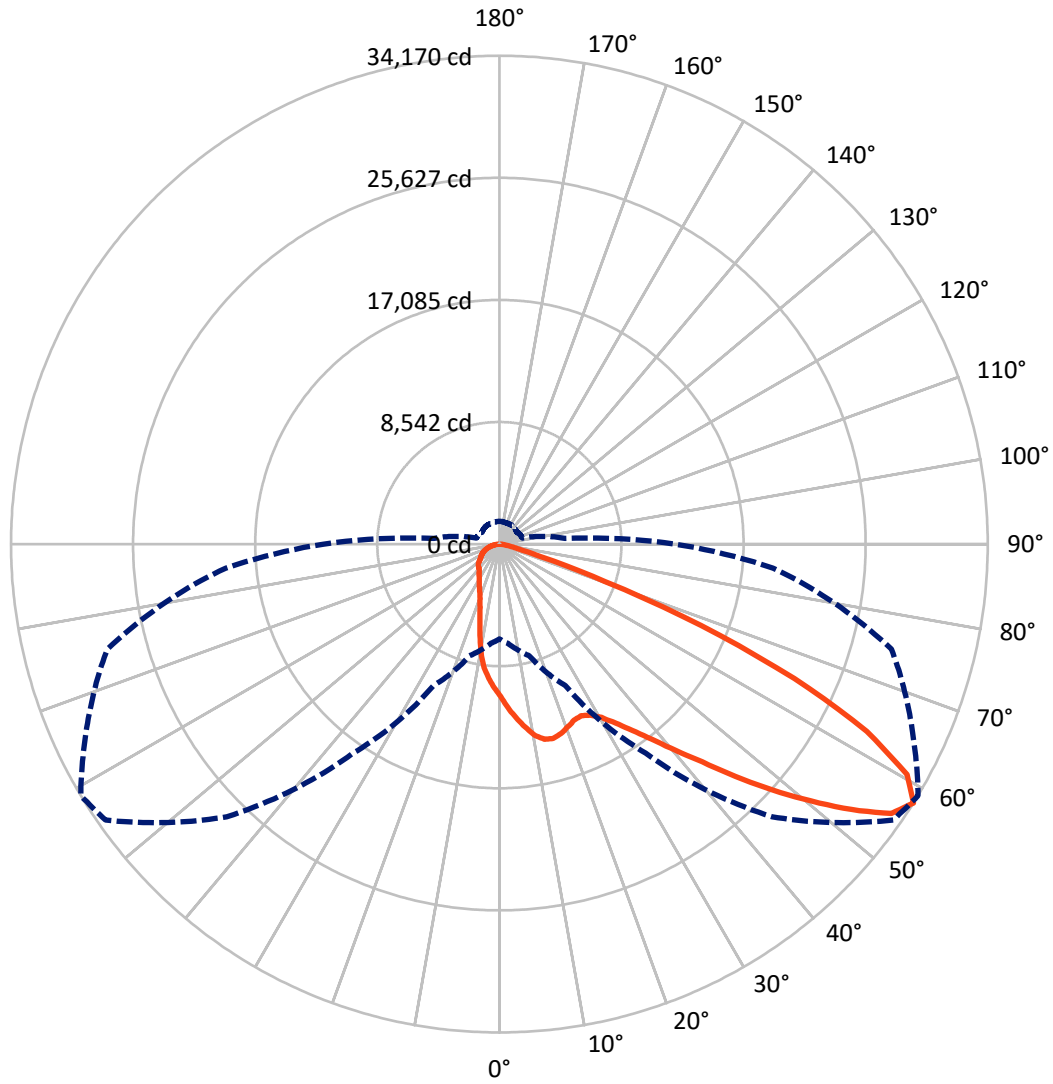
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6747.4	0.0	6747.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	36729.4	0.0	36729.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	43476.8	0.0	43476.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.0	2.3
10°-20°	2511.1	5.8
20°-30°	4070.6	9.4
30°-40°	6548.1	15.1
40°-50°	10168.5	23.4
50°-60°	10952.9	25.2
60°-70°	6356.6	14.6
70°-80°	1659.4	3.8
80°-90°	218.6	0.5
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°	43476.8	100.0
0°-180°	43476.8	100.0

Coefficient of Utilization



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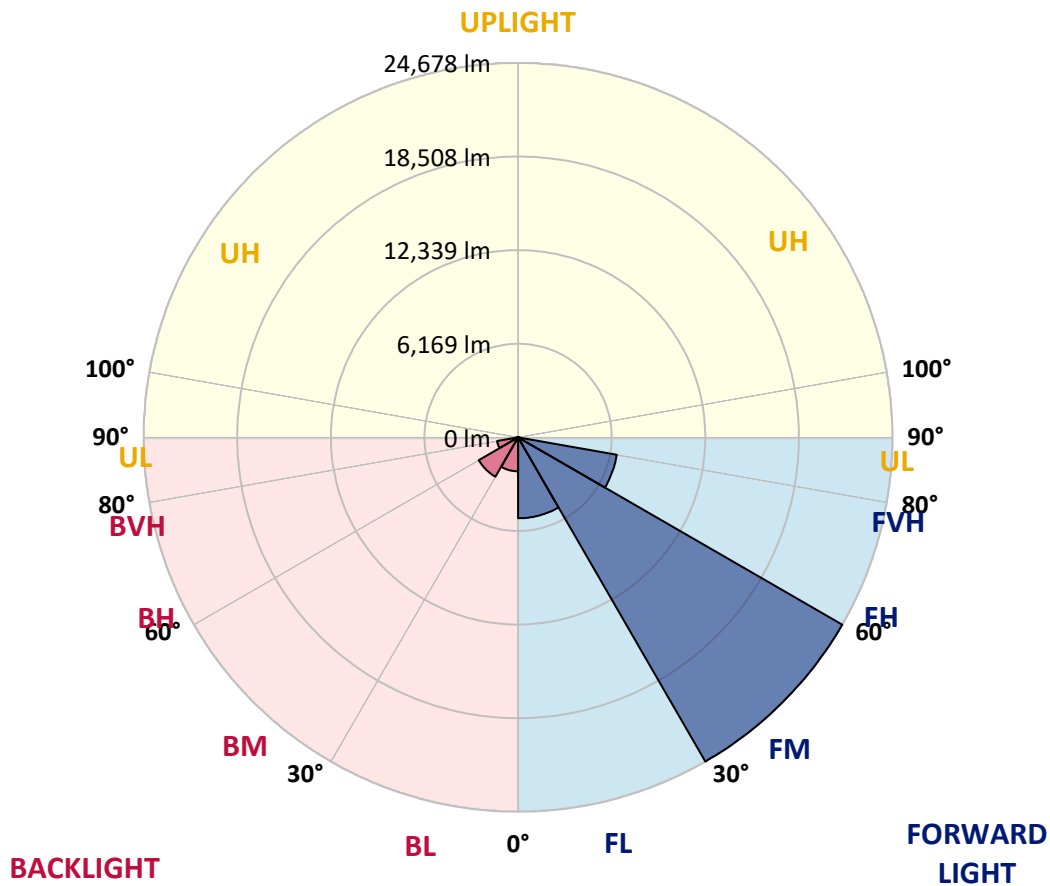
CATALOG NUMBER: GWS-SA5F-750-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5334.2	12.3			
FM (30°-60°)	24677.9	56.8			
FH (60°-80°)	6612.6	15.2			G3/7500
FVH (80°-90°)	104.7	0.2			G2/225
BL (0°-30°)	2238.5	5.1	B3/2500		
BM (30°-60°)	2991.5	6.9	B3/5000		
BH (60°-80°)	1403.4	3.2	B3/2500		G3/2500
BVH (80°-90°)	113.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7
2.5°	12105.1	12004.1	12074.5	11949.0	11897.0	11759.2	11581.7	11462.3	11278.7	11040.0	10831.8
5°	13308.0	13237.6	13252.9	13118.2	12998.8	12769.3	12405.0	12203.0	11890.8	11410.3	10963.5
7.5°	13271.2	13353.9	13399.8	13516.1	13549.7	13528.3	13200.8	12919.2	12576.4	11854.1	11180.8
10°	11897.0	12053.1	12193.9	12591.7	13075.3	13687.5	13764.0	13595.7	13249.8	12420.3	11440.9
12.5°	10400.3	10519.6	10645.1	11122.6	11863.3	13087.6	13917.0	14021.1	13883.4	12980.5	11734.8
15°	9665.7	9720.8	9840.2	10155.4	10746.1	12105.1	13650.8	14106.8	14354.7	13574.2	12065.3
17.5°	9635.1	9659.6	9717.7	9886.1	10296.2	11346.0	13170.2	13935.4	14725.1	14201.7	12451.0
20°	10268.7	10204.4	10167.7	10164.6	10366.6	11092.0	12705.0	13659.9	14899.5	14844.4	12864.2
22.5°	11147.1	11168.5	11088.9	10893.1	10868.6	11272.6	12472.4	13381.4	14951.6	15413.7	13246.7
25°	12392.8	12499.9	12264.3	11890.8	11707.2	11796.0	12616.2	13295.7	14945.4	15888.1	13485.5
27.5°	13846.6	13929.3	13690.5	13200.8	12821.3	12607.1	13044.7	13549.7	14997.5	16298.3	13629.3
30°	15502.5	15530.0	15202.5	14688.3	14134.3	13675.2	13757.9	14073.1	15263.7	16836.9	13797.7
32.5°	17525.6	17641.9	17146.1	16331.9	15557.6	14969.9	14715.9	14917.9	15839.2	17473.6	14057.8
35°	20093.5	20133.3	19502.8	18336.7	17241.0	16426.8	15894.3	16001.4	16714.5	18364.2	14449.6
37.5°	22514.6	22554.3	21884.1	20800.6	19233.5	18119.4	17348.1	17299.1	17834.7	19622.2	15089.3
40°	24051.0	24164.3	23864.3	23184.9	21688.2	20185.4	19138.6	18970.3	19303.9	21161.7	15980.0
42.5°	24877.4	24926.4	24920.3	25009.0	24118.4	22624.7	21158.7	20822.0	21045.4	22823.7	16879.8
45°	24883.5	25006.0	25333.5	26187.4	26227.2	25296.7	23711.3	23184.9	22979.8	24497.9	17819.4
47.5°	23769.4	23901.1	24800.9	26481.2	27720.8	27932.0	26768.9	25713.0	24849.9	25939.5	18590.7
50°	20396.6	20727.1	22441.1	25413.0	28014.7	30043.9	29685.8	28253.4	26511.8	27053.6	19074.3
52.5°	17467.5	17455.2	18511.2	22395.2	26787.3	30974.4	32507.8	30867.2	28155.4	27760.6	19196.8
55°	12790.7	12861.1	13941.5	17127.7	23512.4	30074.5	34059.5	33272.9	30040.8	28137.1	19147.8
57.5°	6632.6	6981.5	8089.4	10929.8	17865.3	26977.1	33646.4	34169.7	31956.8	28403.4	19212.1
60°	3351.5	3284.1	3682.0	5218.5	10351.3	21069.9	31099.8	32767.9	32302.7	28611.5	19251.8
62.5°	2237.4	2219.0	2108.8	2418.0	4229.9	12478.5	26511.8	28850.2	29900.0	28121.8	18743.8
65°	1937.4	1900.7	1698.7	1686.4	2053.7	5175.7	19432.4	22679.8	24712.1	25945.6	17528.7
67.5°	1744.6	1689.5	1484.4	1383.4	1475.3	2274.1	10951.2	15211.7	18247.9	21942.2	14865.9
70°	1557.9	1530.4	1325.3	1178.4	1169.2	1386.5	4034.0	7850.7	11165.5	14969.9	10868.6
72.5°	1395.7	1346.7	1172.3	1031.5	961.1	982.5	1750.7	3024.0	5778.6	9338.2	6500.9
75°	1209.0	1172.3	1019.2	878.4	792.7	719.3	1068.2	1398.7	2635.3	4438.0	3069.9
77.5°	933.5	909.0	805.0	697.8	648.9	535.6	648.9	881.5	1218.2	1870.1	1597.7
80°	541.7	557.0	599.9	544.8	477.5	382.6	422.4	508.1	731.5	1013.1	906.0
82.5°	272.4	290.8	388.7	315.3	284.6	223.4	251.0	299.9	382.6	560.1	355.0
85°	21.4	21.4	70.4	79.6	97.9	79.6	101.0	122.4	174.5	223.4	119.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	15.3	27.5	52.0	33.7
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°	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7	10672.7
2.5°	10691.0	10535.0	10348.3	10195.2	9959.5	9834.1	9674.9	9479.0	9399.4	9362.7	9341.3
5°	10712.5	10437.0	10039.1	9671.8	9264.8	8943.4	8585.3	8211.9	7997.6	7945.6	7908.9
7.5°	10792.1	10406.4	9772.8	9166.8	8410.8	7709.9	7027.4	6351.0	6005.1	5873.5	5861.3
10°	10902.2	10394.2	9503.5	8496.5	7220.2	6112.2	5313.4	4783.9	4560.5	4487.0	4462.5
12.5°	11040.0	10385.0	9148.5	7566.1	5846.0	4799.2	4343.1	4257.4	4288.1	4281.9	4281.9
15°	11214.4	10397.2	8720.0	6513.2	4728.8	4165.6	4174.8	4275.8	4370.7	4386.0	4386.0
17.5°	11404.2	10385.0	8098.6	5457.2	4058.5	4015.6	4156.4	4297.2	4382.9	4395.2	4395.2
20°	11609.3	10326.8	7315.1	4462.5	3764.7	3920.8	4073.8	4184.0	4236.0	4248.3	4248.3
22.5°	11731.7	10161.5	6464.2	3776.9	3578.0	3770.8	3871.8	3985.0	3991.2	3893.2	3890.2
25°	11713.3	9852.4	5494.0	3336.2	3379.0	3547.4	3675.9	3596.3	3498.4	3443.3	3434.1
27.5°	11597.0	9387.2	4505.4	3002.6	3143.3	3333.1	3293.3	3226.0	3201.5	3140.3	3134.2
30°	11450.1	8814.8	3617.8	2742.4	2898.5	3072.9	3011.7	3005.6	2981.1	2913.8	2913.8
32.5°	11309.3	8224.1	2947.5	2549.6	2742.4	2754.6	2840.3	2846.5	2834.2	2717.9	2705.7
35°	11269.5	7633.4	2494.5	2396.5	2589.4	2583.2	2705.7	2702.6	2491.4	2329.2	2326.1
37.5°	11388.9	7033.5	2225.1	2271.0	2378.2	2457.7	2555.7	2378.2	2307.8	2209.8	2203.7
40°	11642.9	6479.5	2087.4	2197.6	2243.5	2359.8	2206.8	2219.0	2200.6	2127.2	2118.0
42.5°	11979.6	6008.2	2010.9	2173.1	2167.0	2197.6	2029.2	2078.2	2105.8	2050.7	2041.5
45°	12304.0	5598.0	1971.1	2081.3	2111.9	1934.4	1900.7	1946.6	1989.5	1968.0	1958.9
47.5°	12542.8	5243.0	1949.7	1955.8	2041.5	1845.6	1790.5	1811.9	1864.0	1873.2	1870.1
50°	12616.2	4940.0	1925.2	1851.7	1833.4	1756.8	1714.0	1707.9	1769.1	1811.9	1818.1
52.5°	12475.4	4670.6	1860.9	1759.9	1671.1	1683.4	1668.1	1637.5	1698.7	1756.8	1763.0
55°	12267.3	4517.6	1759.9	1671.1	1567.1	1616.1	1622.2	1594.6	1634.4	1674.2	1674.2
57.5°	12282.6	4606.4	1662.0	1588.5	1475.3	1539.5	1573.2	1561.0	1561.0	1591.6	1594.6
60°	12383.6	4734.9	1597.7	1484.4	1383.4	1450.8	1527.3	1515.0	1487.5	1527.3	1527.3
62.5°	12092.9	4563.5	1554.8	1383.4	1285.5	1365.1	1456.9	1450.8	1420.2	1484.4	1490.6
65°	11235.9	4104.4	1505.9	1258.0	1187.6	1279.4	1359.0	1380.4	1352.8	1438.5	1453.8
67.5°	9417.8	3452.5	1411.0	1138.6	1089.6	1175.3	1251.8	1282.4	1261.0	1362.0	1374.3
70°	7021.3	2794.4	1261.0	1007.0	970.2	1046.8	1117.2	1129.4	1132.5	1251.8	1264.1
72.5°	4477.8	2173.1	1062.1	860.1	832.5	890.7	942.7	991.7	1013.1	1126.3	1123.3
75°	2497.5	1616.1	853.9	728.4	679.5	725.4	786.6	844.8	906.0	1071.2	1089.6
77.5°	1438.5	1135.5	676.4	584.6	526.4	575.4	627.4	710.1	893.7	1037.6	1019.2
80°	811.1	737.6	511.1	428.5	391.8	428.5	468.3	624.4	704.0	765.2	774.4
82.5°	379.5	413.2	348.9	263.2	263.2	287.7	324.4	483.6	532.6	434.6	379.5
85°	137.7	186.7	171.4	134.7	119.4	116.3	202.0	275.5	171.4	153.0	131.6
87.5°	36.7	52.0	49.0	33.7	18.4	15.3	0.0	0.0	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)