

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: P643669

Luminaire Tested: GWS-SA6F-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49121.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

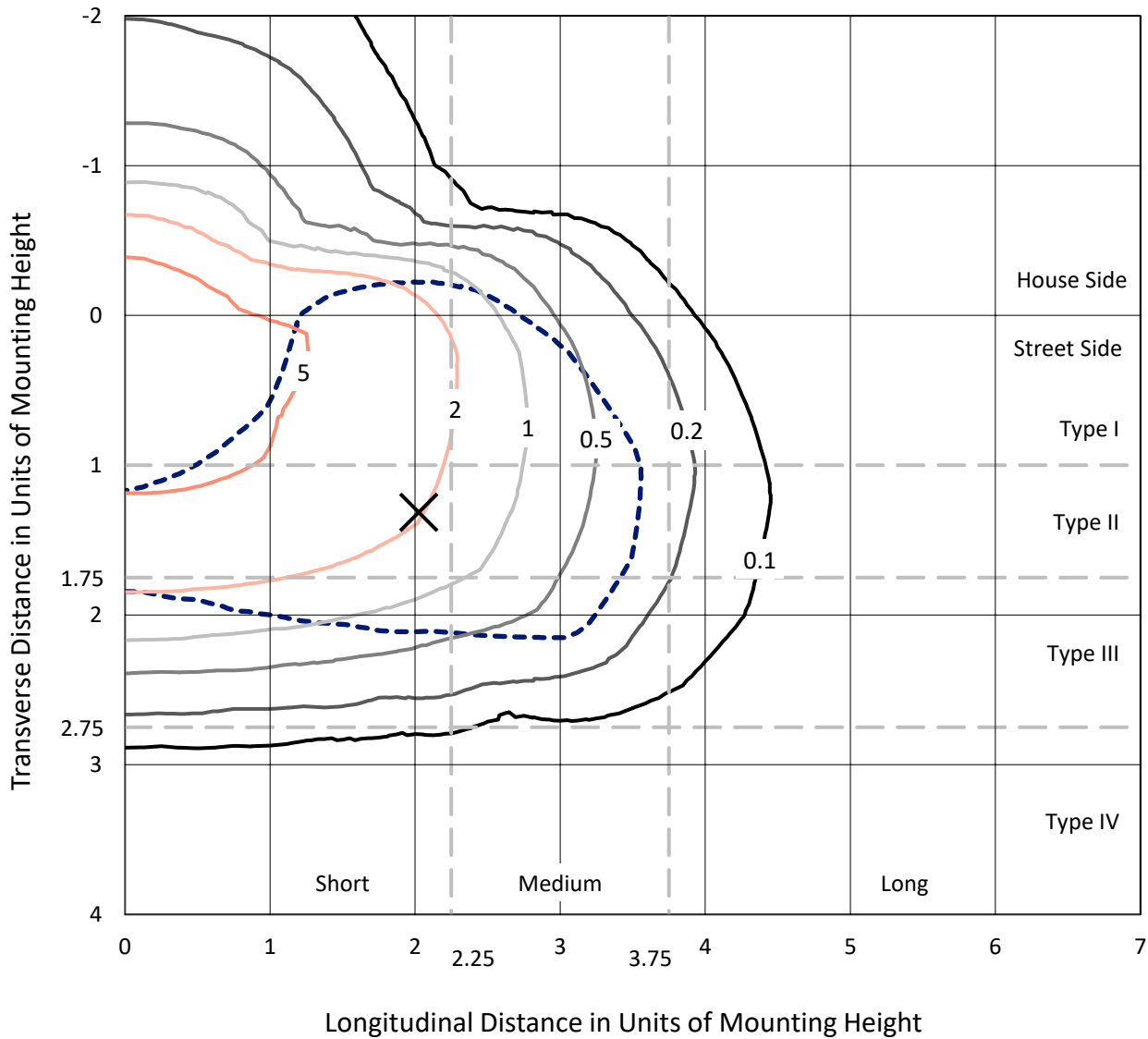
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

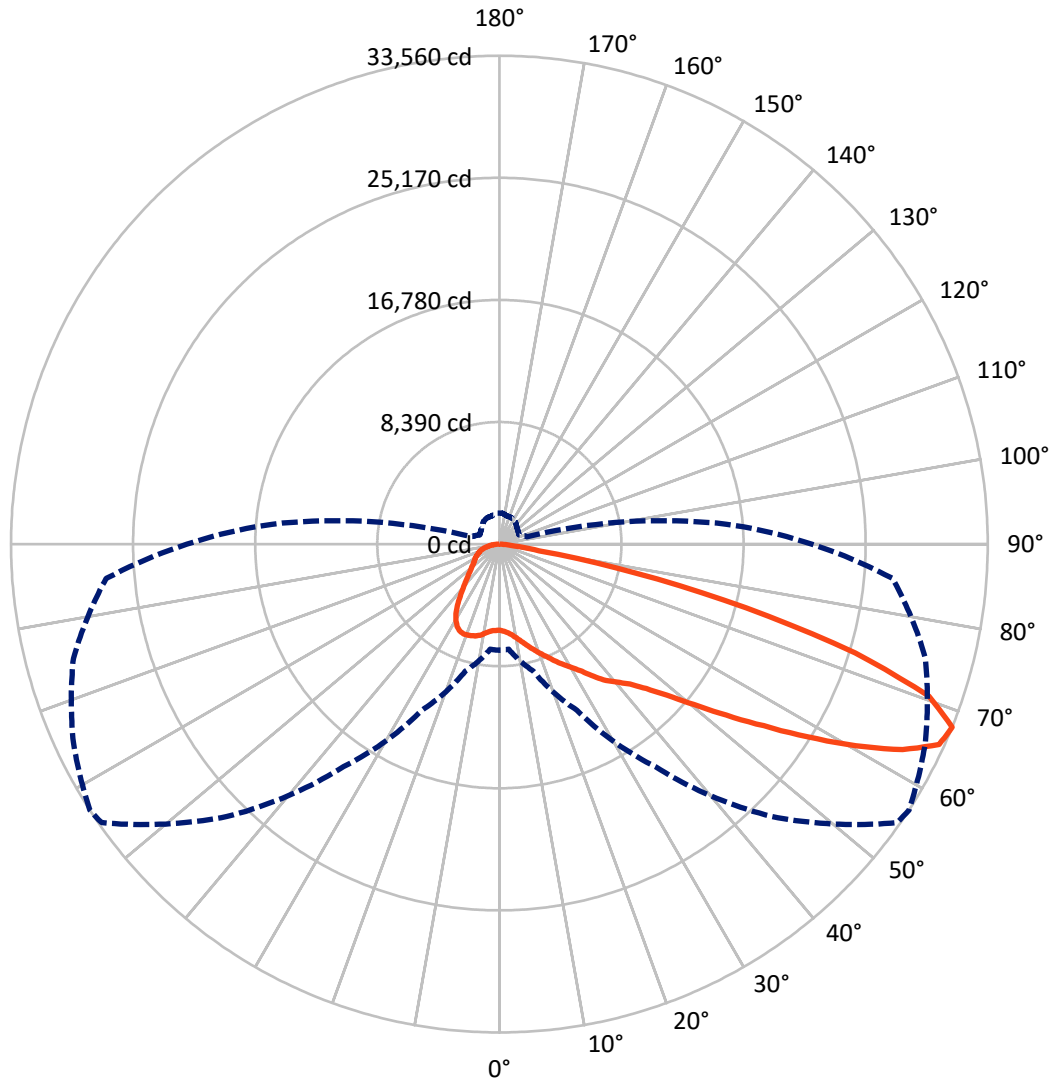
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10799.9	0.0	10799.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	38321.5	0.0	38321.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	49121.4	0.0	49121.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.0	1.2
10°-20°	1943.3	4.0
20°-30°	3464.6	7.1
30°-40°	5037.1	10.3
40°-50°	7290.4	14.8
50°-60°	11409.2	23.2
60°-70°	13309.5	27.1
70°-80°	5556.0	11.3
80°-90°	524.3	1.1
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°	49121.4	100.0
0°-180°	49121.4	100.0

Coefficient of Utilization



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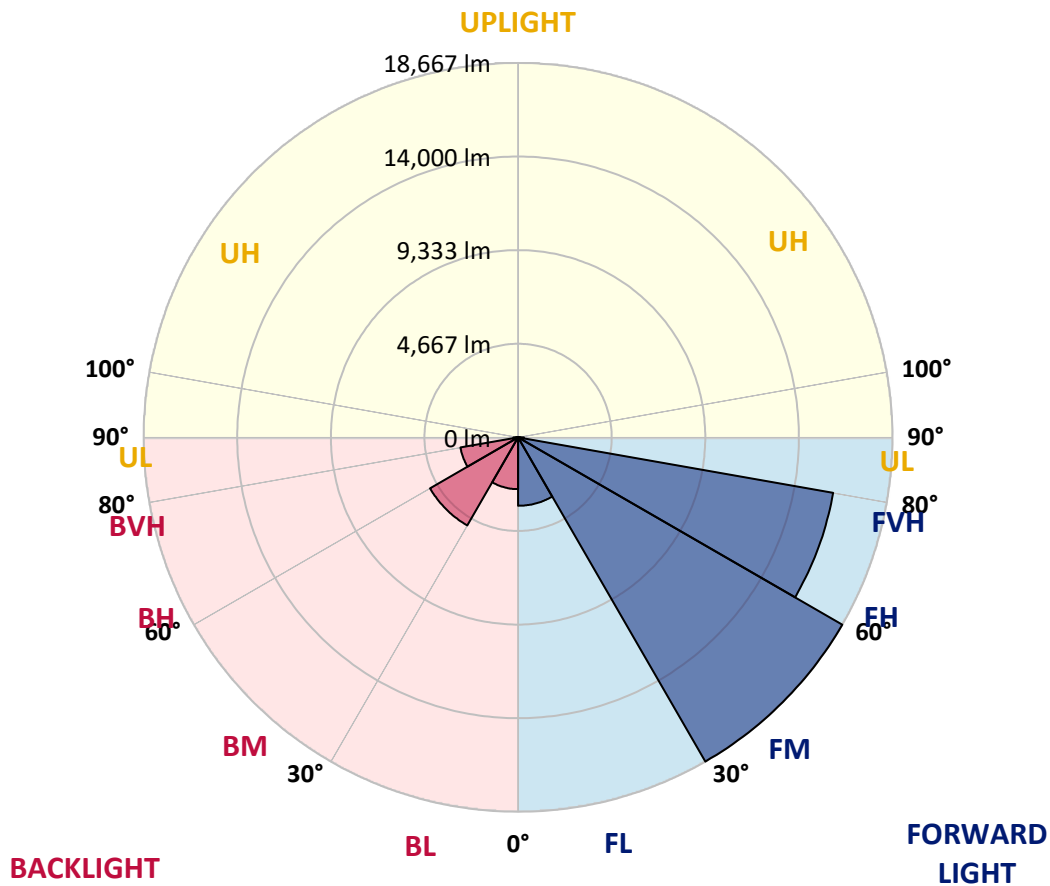
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3412.0	6.9			
FM (30°-60°)	18666.8	38.0			
FH (60°-80°)	15950.6	32.5			G5
FVH (80°-90°)	292.1	0.6			G3/500
BL (0°-30°)	2583.0	5.3	B4/5000		
BM (30°-60°)	5069.8	10.3	B4/8500		
BH (60°-80°)	2914.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	232.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8
2.5°	6003.2	5996.2	5992.7	6013.8	6006.8	6003.2	6003.2	5999.7	5992.7	5964.5	5925.8
5°	6168.6	6154.6	6140.5	6158.1	6144.0	6129.9	6126.4	6119.4	6094.7	6052.5	5992.7
7.5°	6341.1	6327.0	6330.5	6341.1	6330.5	6323.5	6312.9	6305.9	6267.2	6200.3	6119.4
10°	6583.9	6583.9	6590.9	6601.5	6605.0	6594.4	6573.3	6562.8	6517.0	6432.6	6319.9
12.5°	6935.8	6928.7	6928.7	6921.7	6932.2	6921.7	6900.6	6883.0	6826.7	6717.6	6555.7
15°	7400.3	7372.1	7347.5	7301.7	7287.6	7248.9	7256.0	7245.4	7192.6	7044.8	6840.7
17.5°	7896.4	7892.9	7854.2	7762.7	7671.2	7607.9	7621.9	7618.4	7590.3	7389.7	7129.3
20°	8332.8	8350.4	8315.2	8244.8	8121.6	8002.0	7994.9	8012.5	7977.4	7776.8	7414.3
22.5°	8821.9	8807.8	8772.6	8681.1	8589.6	8463.0	8420.7	8406.7	8392.6	8163.9	7706.4
25°	9286.4	9328.6	9282.9	9198.4	9057.7	8920.4	8885.2	8899.3	8860.6	8558.0	8019.6
27.5°	9874.0	9891.6	9863.5	9747.4	9627.7	9434.2	9367.3	9367.3	9353.2	8927.5	8265.9
30°	10500.4	10549.7	10500.4	10405.4	10282.2	10004.2	9860.0	9845.9	9803.7	9307.5	8554.5
32.5°	11130.3	11165.5	11130.3	11038.8	10898.0	10655.2	10447.6	10416.0	10359.6	9722.7	8850.0
35°	11689.8	11721.5	11714.4	11735.5	11619.4	11313.3	11186.6	11172.5	11024.7	10264.6	9251.2
37.5°	12302.1	12340.8	12288.0	12330.2	12284.5	11995.9	11957.2	11886.9	11675.7	10774.9	9673.5
40°	12998.8	13034.0	12949.6	12967.2	12914.4	12752.5	12555.4	12460.4	12147.3	11327.3	10338.5
42.5°	13744.8	13825.8	13864.5	13832.8	13709.6	13618.2	13273.3	13153.7	12893.3	12323.2	11432.9
45°	14825.1	14944.8	15001.1	14920.1	14867.4	14737.2	14314.9	14170.6	14033.4	13727.2	12960.1
47.5°	15989.9	16099.0	16278.4	16313.6	16355.9	16257.3	15662.6	15521.9	15546.5	15511.3	14839.2
50°	16918.9	17010.4	17415.0	17847.9	18206.8	18235.0	17474.9	17323.6	17457.3	17569.9	17101.9
52.5°	17594.5	17675.4	18210.3	19104.1	19917.0	20518.7	19698.8	19526.4	19635.5	19888.8	19674.2
55°	18143.5	18256.1	18815.6	20187.9	21831.3	22781.4	22257.1	22038.9	21993.1	22306.3	22429.5
57.5°	18432.0	18467.2	19251.9	21036.0	23235.3	25001.8	25230.5	24984.2	24547.9	24720.3	25360.7
60°	17774.0	17833.8	18907.1	21254.2	24343.8	27204.6	28351.8	28147.7	27218.7	27313.7	28021.0
62.5°	15954.7	16039.2	17330.6	20216.1	24435.3	28675.5	31233.8	31103.6	29857.9	29344.1	29555.3
65°	12798.2	12826.4	14163.6	17647.3	22616.0	28858.5	33243.1	33211.4	31701.8	30498.3	29594.0
67.5°	7298.2	7248.9	9036.5	12587.1	18664.3	26479.7	33373.3	33559.8	32300.0	30308.3	27130.7
70°	3163.5	3170.5	3994.0	6210.9	12080.4	21402.0	30998.0	31318.2	30568.7	27144.8	21584.9
72.5°	1463.9	1485.0	1840.4	2688.4	5158.7	13276.8	25276.3	25564.8	24920.9	21725.7	15704.9
75°	1034.6	1052.2	1228.1	1541.3	2371.7	5172.8	16908.3	17513.6	17826.8	16250.3	10349.1
77.5°	784.7	809.3	897.3	1069.7	1463.9	1833.3	8090.0	9532.7	11355.5	10109.8	5331.1
80°	499.7	499.7	594.7	714.3	893.8	953.6	2336.6	2769.4	5556.3	4166.4	2093.7
82.5°	337.8	348.4	404.7	453.9	513.8	541.9	1002.9	1069.7	1604.6	1418.1	862.1
85°	179.5	186.5	211.1	207.6	246.3	214.7	422.3	418.7	587.7	644.0	327.3
87.5°	0.0	0.0	3.5	3.5	7.0	10.6	45.7	49.3	123.2	197.1	109.1
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°	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8
2.5°	5946.9	5904.7	5925.8	5918.8	5939.9	5939.9	5901.2	5890.6	5894.2	5851.9	5837.9
5°	5999.7	5950.5	5961.0	5946.9	5968.1	5985.7	5968.1	5968.1	5989.2	5957.5	5939.9
7.5°	6119.4	6063.1	6063.1	6045.5	6070.1	6084.2	6070.1	6091.2	6129.9	6098.3	6080.7
10°	6309.4	6242.5	6246.1	6224.9	6235.5	6228.5	6172.2	6154.6	6165.1	6137.0	6122.9
12.5°	6555.7	6464.2	6464.2	6422.0	6397.4	6323.5	6207.3	6165.1	6172.2	6147.5	6137.0
15°	6791.5	6707.0	6689.4	6605.0	6492.4	6355.1	6249.6	6221.4	6228.5	6203.8	6186.2
17.5°	7069.5	6960.4	6897.0	6742.2	6534.6	6393.8	6288.3	6221.4	6165.1	6108.8	6094.7
20°	7326.4	7189.1	7073.0	6833.7	6580.3	6386.8	6189.7	6024.4	5887.1	5813.2	5795.6
22.5°	7590.3	7414.3	7210.2	6897.0	6576.8	6260.1	5897.7	5647.8	5443.7	5334.7	5355.8
25°	7840.1	7618.4	7340.4	6956.9	6464.2	5978.6	5486.0	5113.0	4880.7	4796.3	4771.6
27.5°	8047.7	7773.3	7460.1	6928.7	6232.0	5573.9	4922.9	4507.7	4282.5	4187.5	4162.9
30°	8280.0	7970.3	7632.5	6798.5	5866.0	5007.4	4286.0	3948.2	3786.3	3694.8	3698.4
32.5°	8547.4	8223.7	7875.3	6548.7	5398.0	4395.1	3761.7	3529.5	3399.3	3307.8	3293.7
35°	8906.3	8586.1	8037.2	6172.2	4803.3	3832.1	3402.8	3212.8	3050.9	2931.2	2906.6
37.5°	9349.7	9131.6	8054.8	5669.0	4166.4	3445.0	3145.9	2941.8	2744.7	2586.4	2568.8
40°	10109.8	9860.0	7910.5	5039.1	3624.5	3195.2	2931.2	2695.5	2466.8	2290.8	2266.2
42.5°	11193.6	10679.9	7600.8	4328.3	3216.3	2998.1	2727.1	2428.0	2195.8	2072.6	2055.0
45°	12573.0	11594.8	7136.3	3659.7	2913.7	2804.6	2512.5	2199.3	2076.2	1988.2	1970.6
47.5°	14262.1	12661.0	6601.5	3138.9	2677.9	2628.6	2294.3	2121.9	2012.8	1938.9	1921.3
50°	16282.0	14019.3	6161.6	2730.7	2466.8	2424.5	2223.9	2076.2	1988.2	1928.4	1914.3
52.5°	18586.8	15528.9	5946.9	2438.6	2283.8	2241.5	2199.3	2065.6	1991.7	1946.0	1928.4
55°	20979.7	17119.5	5746.4	2213.4	2128.9	2153.6	2202.8	2100.8	2044.5	1984.7	1967.1
57.5°	23291.6	18611.5	5253.7	2037.4	2016.3	2111.3	2220.4	2136.0	2069.1	2009.3	1988.2
60°	24885.7	19427.9	4419.7	1896.7	1931.9	2058.6	2174.7	2083.2	1998.7	1974.1	1963.5
62.5°	25315.0	19329.3	3430.9	1752.4	1829.8	1942.4	2055.0	1995.2	1907.2	1946.0	1949.5
65°	24312.1	18273.7	2575.8	1611.7	1696.1	1791.1	1931.9	1907.2	1875.6	1981.1	1984.7
67.5°	21472.3	15680.2	1963.5	1488.5	1558.9	1675.0	1893.2	1995.2	2002.3	2136.0	2121.9
70°	16246.8	11714.4	1537.8	1372.4	1453.3	1675.0	2016.3	2062.1	1977.6	2100.8	2072.6
72.5°	11232.3	7731.0	1309.0	1270.3	1323.1	1597.6	2012.8	2012.8	1921.3	1921.3	1868.5
75°	6978.0	4546.4	1140.1	1140.1	1140.1	1397.0	1956.5	1854.5	1692.6	1618.7	1576.5
77.5°	3445.0	2209.9	957.1	992.3	953.6	1168.3	1597.6	1516.6	1418.1	1340.7	1312.6
80°	1470.9	1104.9	774.2	812.9	767.1	879.7	1266.8	1249.2	1154.2	1052.2	1020.5
82.5°	675.6	570.1	619.3	636.9	559.5	661.6	925.5	925.5	872.7	731.9	679.1
85°	288.6	302.6	429.3	429.3	351.9	373.0	496.2	471.5	422.3	344.9	316.7
87.5°	98.5	147.8	218.2	190.0	73.9	31.7	17.6	7.0	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)