

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: P641249

Luminaire Tested: GWS-SA5F-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641249
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-SA5F-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41766.8 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

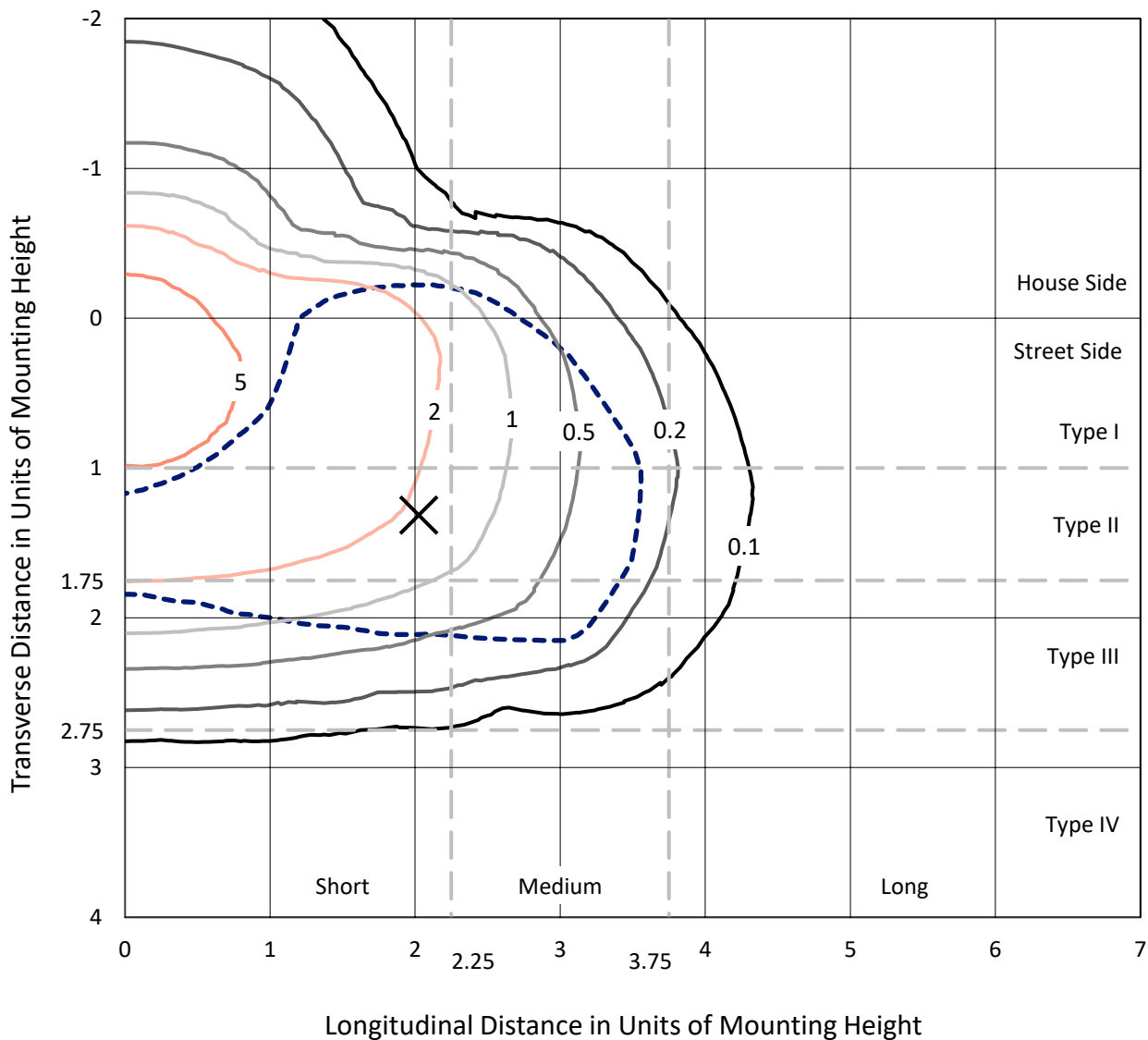
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

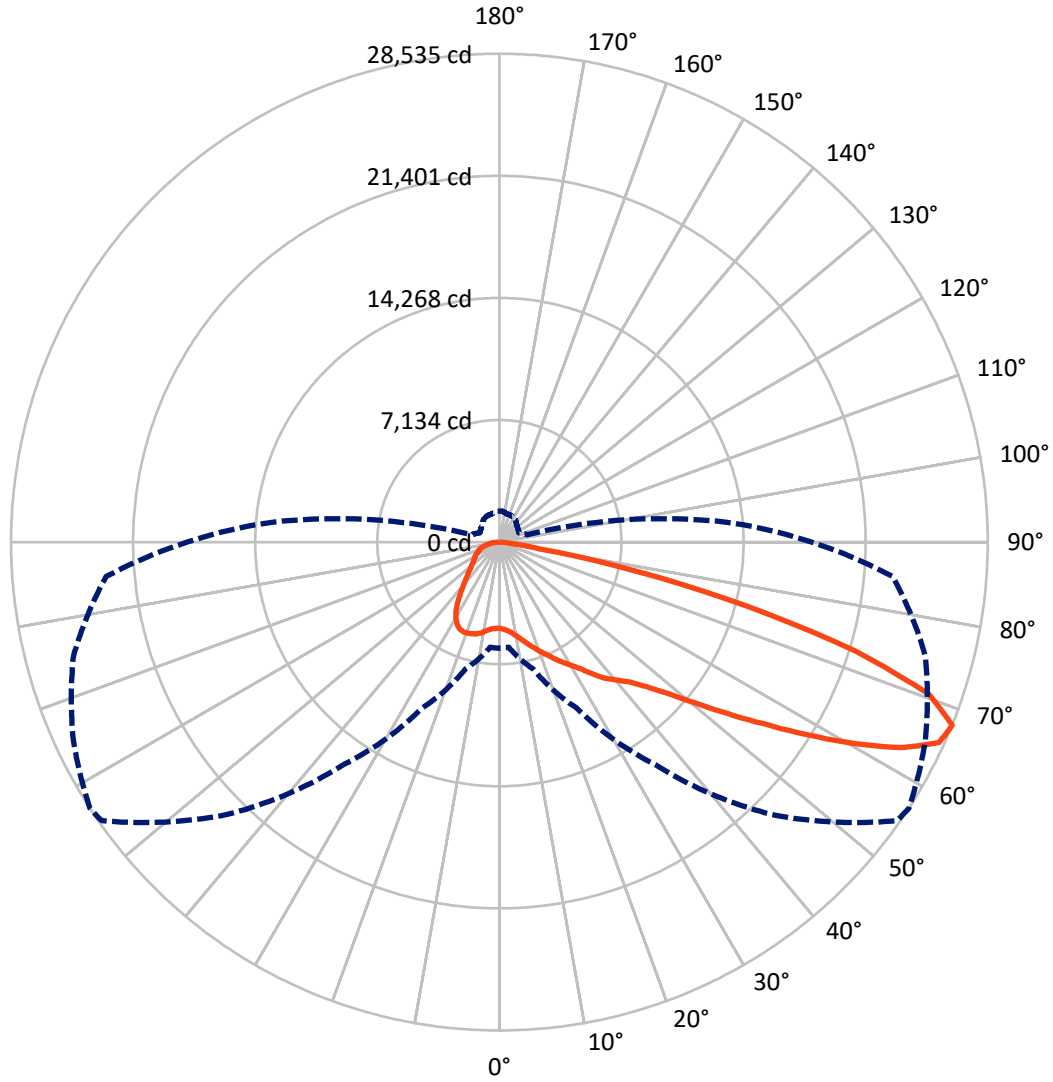
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	9182.9	0.0	9182.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32583.9	0.0	32583.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	41766.8	0.0	41766.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	1.2
10°-20°	1652.4	4.0
20°-30°	2945.9	7.1
30°-40°	4282.9	10.3
40°-50°	6198.8	14.8
50°-60°	9701.0	23.2
60°-70°	11316.8	27.1
70°-80°	4724.1	11.3
80°-90°	445.8	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°	41766.8	100.0
0°-180°	41766.8	100.0

Coefficient of Utilization



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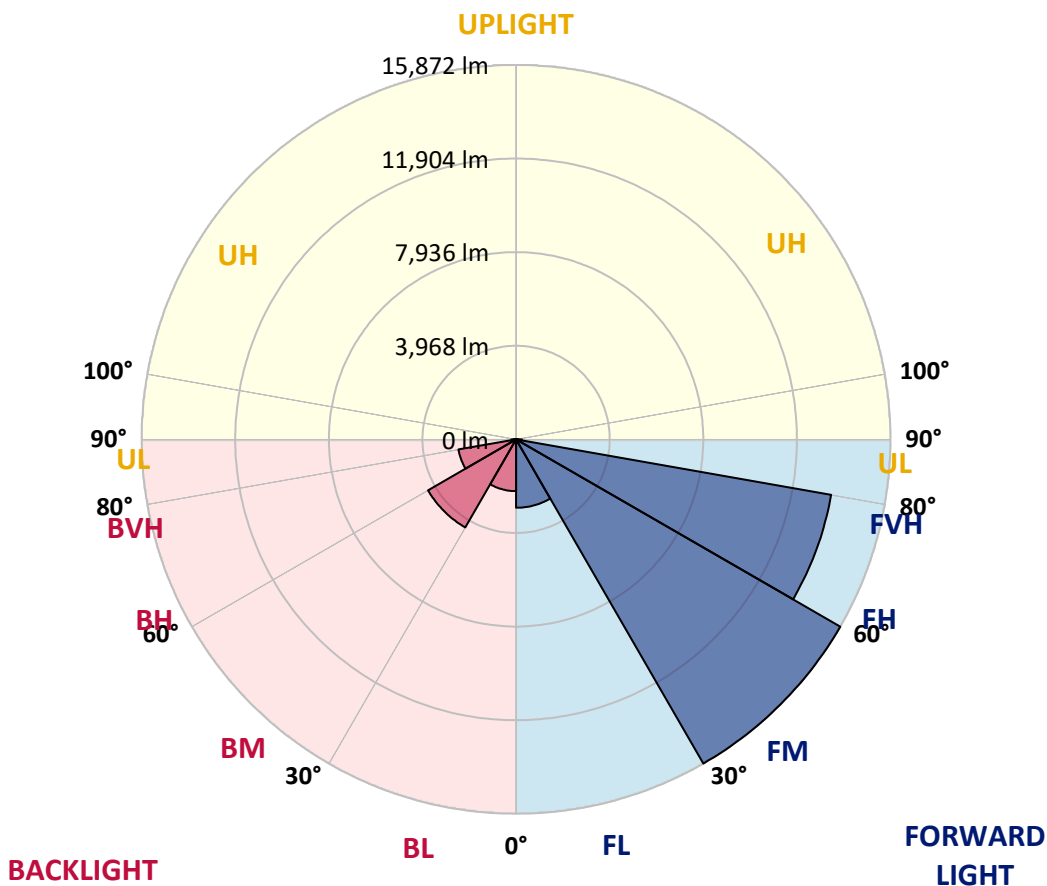
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2901.1	6.9			
FM (30°-60°)	15872.0	38.0			
FH (60°-80°)	13562.4	32.5			G5
FVH (80°-90°)	248.4	0.6			G3/500
BL (0°-30°)	2196.3	5.3	B3/2500		
BM (30°-60°)	4310.7	10.3	B3/5000		
BH (60°-80°)	2478.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	197.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6
2.5°	5104.4	5098.4	5095.4	5113.4	5107.4	5104.4	5104.4	5101.4	5095.4	5071.5	5038.6
5°	5245.1	5233.1	5221.1	5236.1	5224.1	5212.1	5209.1	5203.2	5182.2	5146.3	5095.4
7.5°	5391.7	5379.7	5382.7	5391.7	5382.7	5376.7	5367.7	5361.7	5328.8	5272.0	5203.2
10°	5598.1	5598.1	5604.1	5613.1	5616.1	5607.1	5589.1	5580.2	5541.3	5469.5	5373.7
12.5°	5897.3	5891.3	5891.3	5885.3	5894.3	5885.3	5867.4	5852.4	5804.6	5711.8	5574.2
15°	6292.3	6268.3	6247.4	6208.5	6196.5	6163.6	6169.6	6160.6	6115.7	5990.1	5816.5
17.5°	6714.1	6711.2	6678.2	6600.4	6522.7	6468.8	6480.8	6477.8	6453.8	6283.3	6061.9
20°	7085.2	7100.1	7070.2	7010.4	6905.6	6803.9	6797.9	6812.9	6783.0	6612.4	6304.2
22.5°	7501.0	7489.1	7459.2	7381.4	7303.6	7195.9	7160.0	7148.0	7136.0	6941.5	6552.6
25°	7896.0	7931.9	7893.0	7821.2	7701.5	7584.8	7554.9	7566.9	7534.0	7276.6	6818.9
27.5°	8395.7	8410.6	8386.7	8288.0	8186.2	8021.7	7964.8	7964.8	7952.8	7590.8	7028.3
30°	8928.3	8970.1	8928.3	8847.5	8742.7	8506.4	8383.7	8371.7	8335.8	7914.0	7273.7
32.5°	9463.8	9493.8	9463.8	9386.0	9266.4	9059.9	8883.4	8856.4	8808.6	8267.0	7525.0
35°	9939.6	9966.5	9960.5	9978.5	9879.7	9619.4	9511.7	9499.7	9374.1	8727.8	7866.1
37.5°	10460.2	10493.1	10448.2	10484.1	10445.2	10199.9	10167.0	10107.1	9927.6	9161.6	8225.1
40°	11052.6	11082.5	11010.7	11025.7	10980.8	10843.2	10675.6	10594.8	10328.5	9631.4	8790.6
42.5°	11686.9	11755.7	11788.6	11761.7	11657.0	11579.2	11286.0	11184.3	10962.8	10478.1	9721.1
45°	12605.5	12707.2	12755.1	12686.3	12641.4	12530.7	12171.6	12049.0	11932.3	11672.0	11019.7
47.5°	13595.8	13688.6	13841.2	13871.1	13907.0	13823.2	13317.6	13197.9	13218.8	13188.9	12617.4
50°	14385.7	14463.5	14807.6	15175.6	15480.8	15504.8	14858.5	14729.8	14843.5	14939.3	14541.3
52.5°	14960.2	15029.0	15483.8	16243.8	16935.0	17446.6	16749.5	16602.8	16695.6	16911.0	16728.5
55°	15427.0	15522.7	15998.4	17165.3	18562.6	19370.5	18924.7	18739.2	18700.3	18966.6	19071.3
57.5°	15672.3	15702.2	16369.5	17886.4	19756.5	21258.5	21452.9	21243.5	20872.5	21019.1	21563.6
60°	15112.8	15163.7	16076.2	18071.9	20698.9	23131.5	24106.9	23933.3	23143.4	23224.2	23825.6
62.5°	13565.9	13637.7	14735.8	17189.3	20776.7	24382.2	26557.4	26446.7	25387.5	24950.6	25130.2
65°	10882.1	10906.0	12043.0	15005.1	19229.9	24537.7	28265.8	28238.9	26955.3	25932.0	25163.1
67.5°	6205.5	6163.6	7683.6	10702.5	15869.8	22515.1	28376.5	28535.1	27464.0	25770.5	23068.6
70°	2689.8	2695.8	3396.0	5281.0	10271.7	18197.6	26356.9	26629.2	25991.9	23080.6	18353.2
72.5°	1244.7	1262.6	1564.8	2285.9	4386.3	11289.0	21491.8	21737.2	21189.6	18472.9	13353.5
75°	879.7	894.6	1044.2	1310.5	2016.6	4398.3	14376.8	14891.4	15157.7	13817.3	8799.6
77.5°	667.2	688.2	763.0	909.6	1244.7	1558.9	6878.7	8105.4	9655.3	8596.1	4532.9
80°	424.9	424.9	505.7	607.4	760.0	810.8	1986.7	2354.7	4724.4	3542.6	1780.3
82.5°	287.2	296.2	344.1	386.0	436.8	460.8	852.7	909.6	1364.4	1205.8	733.1
85°	152.6	158.6	179.5	176.5	209.4	182.5	359.0	356.1	499.7	547.5	278.3
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	38.9	41.9	104.7	167.6	92.8
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°	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6	5032.6
2.5°	5056.6	5020.6	5038.6	5032.6	5050.6	5050.6	5017.7	5008.7	5011.7	4975.8	4963.8
5°	5101.4	5059.5	5068.5	5056.6	5074.5	5089.5	5074.5	5074.5	5092.5	5065.5	5050.6
7.5°	5203.2	5155.3	5155.3	5140.3	5161.3	5173.2	5161.3	5179.2	5212.1	5185.2	5170.2
10°	5364.7	5307.9	5310.9	5292.9	5301.9	5295.9	5248.0	5233.1	5242.1	5218.1	5206.2
12.5°	5574.2	5496.4	5496.4	5460.5	5439.5	5376.7	5278.0	5242.1	5248.0	5227.1	5218.1
15°	5774.6	5702.8	5687.9	5616.1	5520.3	5403.6	5313.9	5289.9	5295.9	5275.0	5260.0
17.5°	6011.0	5918.3	5864.4	5732.8	5556.2	5436.5	5346.8	5289.9	5242.1	5194.2	5182.2
20°	6229.4	6112.7	6014.0	5810.5	5595.1	5430.6	5263.0	5122.4	5005.7	4942.9	4927.9
22.5°	6453.8	6304.2	6130.7	5864.4	5592.1	5322.8	5014.7	4802.2	4628.7	4535.9	4553.9
25°	6666.3	6477.8	6241.4	5915.3	5496.4	5083.5	4664.6	4347.4	4150.0	4078.2	4057.2
27.5°	6842.8	6609.4	6343.1	5891.3	5298.9	4739.4	4185.9	3832.8	3641.3	3560.5	3539.6
30°	7040.3	6777.0	6489.7	5780.6	4987.7	4257.7	3644.3	3357.1	3219.4	3141.6	3144.6
32.5°	7267.7	6992.4	6696.2	5568.2	4589.8	3737.1	3198.5	3001.0	2890.3	2812.5	2800.6
35°	7572.9	7300.6	6833.8	5248.0	4084.1	3258.3	2893.3	2731.7	2594.1	2492.4	2471.4
37.5°	7949.9	7764.3	6848.8	4820.2	3542.6	2929.2	2674.9	2501.3	2333.8	2199.2	2184.2
40°	8596.1	8383.7	6726.1	4284.6	3081.8	2716.8	2492.4	2291.9	2097.4	1947.8	1926.9
42.5°	9517.7	9080.8	6462.8	3680.2	2734.7	2549.2	2318.8	2064.5	1867.0	1762.3	1747.4
45°	10690.6	9858.8	6067.9	3111.7	2477.4	2384.7	2136.3	1870.0	1765.3	1690.5	1675.5
47.5°	12126.7	10765.4	5613.1	2668.9	2276.9	2235.1	1950.8	1804.2	1711.4	1648.6	1633.7
50°	13844.2	11920.3	5239.1	2321.8	2097.4	2061.5	1891.0	1765.3	1690.5	1639.6	1627.7
52.5°	15804.0	13203.9	5056.6	2073.5	1941.8	1905.9	1870.0	1756.3	1693.5	1654.6	1639.6
55°	17838.6	14556.3	4886.0	1882.0	1810.2	1831.1	1873.0	1786.2	1738.4	1687.5	1672.6
57.5°	19804.3	15824.9	4467.1	1732.4	1714.4	1795.2	1888.0	1816.2	1759.3	1708.5	1690.5
60°	21159.7	16519.1	3758.0	1612.7	1642.6	1750.3	1849.1	1771.3	1699.5	1678.5	1669.6
62.5°	21524.8	16435.3	2917.2	1490.0	1555.9	1651.6	1747.4	1696.5	1621.7	1654.6	1657.6
65°	20672.0	15537.7	2190.2	1370.4	1442.2	1522.9	1642.6	1621.7	1594.8	1684.5	1687.5
67.5°	18257.4	13332.5	1669.6	1265.6	1325.5	1424.2	1609.7	1696.5	1702.5	1816.2	1804.2
70°	13814.3	9960.5	1307.5	1166.9	1235.7	1424.2	1714.4	1753.3	1681.5	1786.2	1762.3
72.5°	9550.6	6573.5	1113.0	1080.1	1125.0	1358.4	1711.4	1711.4	1633.7	1633.7	1588.8
75°	5933.2	3865.7	969.4	969.4	969.4	1187.8	1663.6	1576.8	1439.2	1376.3	1340.4
77.5°	2929.2	1879.0	813.8	843.8	810.8	993.4	1358.4	1289.6	1205.8	1140.0	1116.0
80°	1250.7	939.5	658.2	691.2	652.3	748.0	1077.1	1062.2	981.4	894.6	867.7
82.5°	574.5	484.7	526.6	541.6	475.7	562.5	786.9	786.9	742.0	622.3	577.5
85°	245.3	257.3	365.0	365.0	299.2	317.2	421.9	400.9	359.0	293.2	269.3
87.5°	83.8	125.7	185.5	161.6	62.8	26.9	15.0	6.0	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)