

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: P643730

Luminaire Tested: GWS-SA6F-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48073.5 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

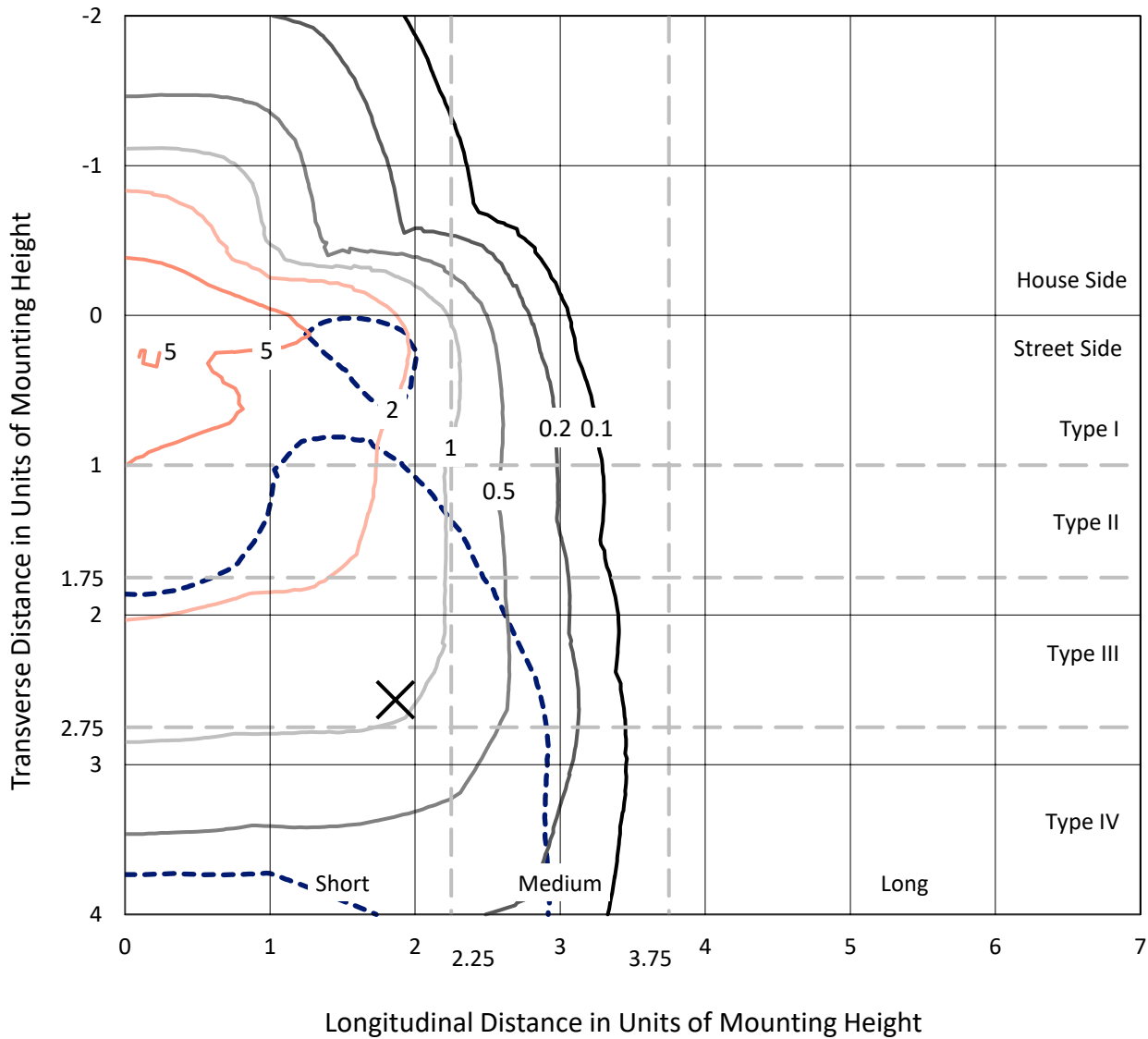
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

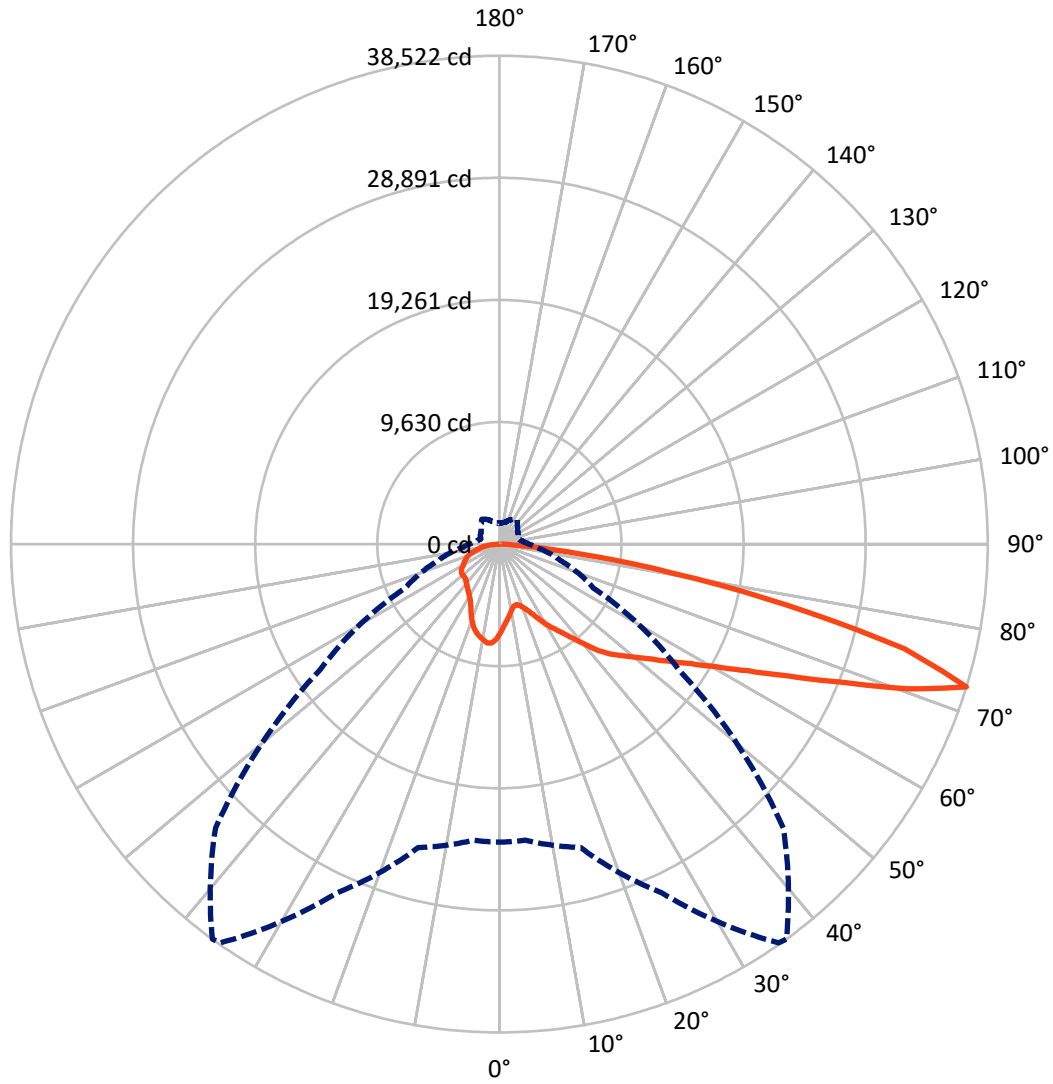
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11083.0	0.0	11083.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	36990.5	0.0	36990.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	48073.5	0.0	48073.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.6	1.4
10°-20°	1855.5	3.9
20°-30°	3072.9	6.4
30°-40°	4602.0	9.6
40°-50°	6713.9	14.0
50°-60°	9555.9	19.9
60°-70°	12073.2	25.1
70°-80°	8603.2	17.9
80°-90°	939.2	2.0
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°	48073.5	100.0
0°-180°	48073.5	100.0

Coefficient of Utilization



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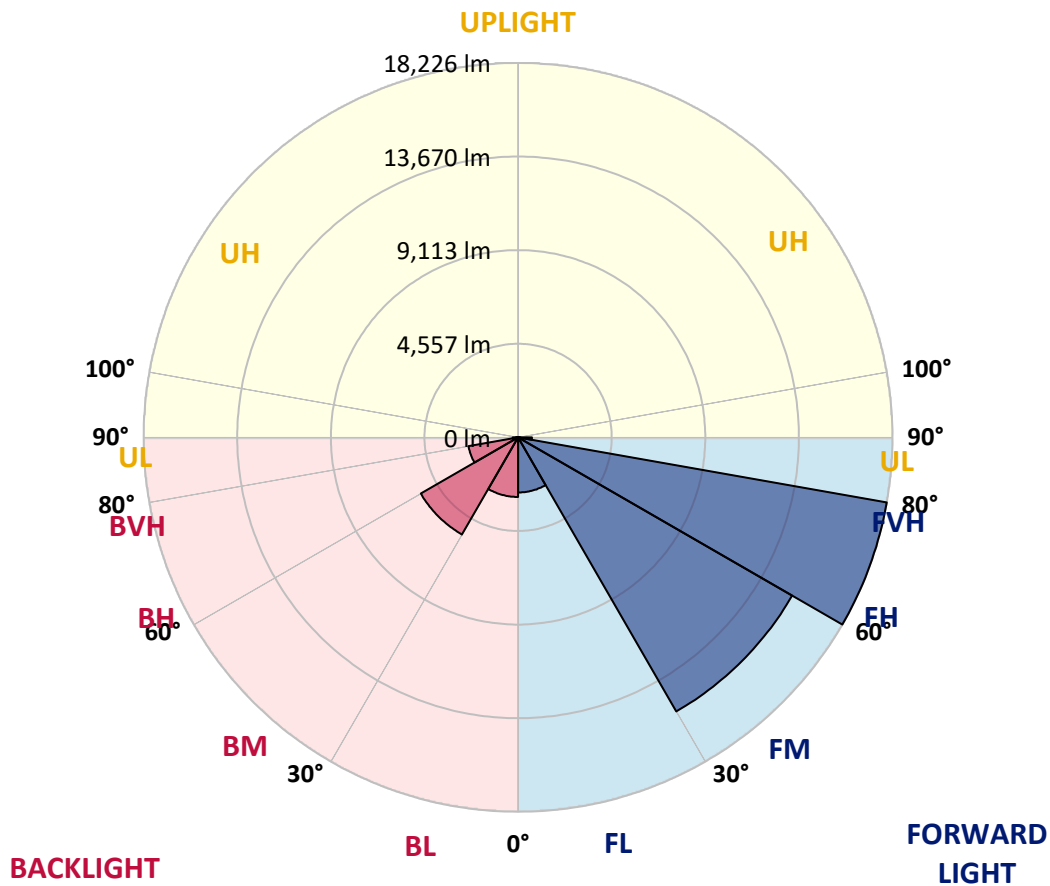
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.8	5.6			
FM (30°-60°)	15406.3	32.0			
FH (60°-80°)	18226.2	37.9			G5
FVH (80°-90°)	674.1	1.4			G4/750
BL (0°-30°)	2902.3	6.0	B4/5000		
BM (30°-60°)	5465.5	11.4	B4/8500		
BH (60°-80°)	2450.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	265.1	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8
2.5°	6418.5	6407.8	6386.4	6450.6	6514.9	6507.7	6596.9	6682.6	6775.3	6871.7	7000.1
5°	5904.8	5897.6	5879.8	5976.1	6072.5	6068.9	6215.2	6354.3	6543.4	6750.3	7007.2
7.5°	5391.0	5373.2	5398.1	5519.4	5655.0	5669.3	5869.1	6097.4	6372.2	6682.6	7046.5
10°	4937.9	4934.3	4945.0	5080.6	5284.0	5298.2	5555.1	5872.7	6236.6	6650.4	7135.7
12.5°	4820.1	4813.0	4784.5	4852.3	5005.7	5027.1	5308.9	5697.8	6143.8	6668.3	7257.0
15°	5012.8	4995.0	4895.1	4863.0	4937.9	4955.7	5194.8	5594.4	6090.3	6700.4	7410.4
17.5°	5344.6	5333.9	5144.8	5012.8	5062.8	5077.0	5255.4	5576.5	6076.0	6764.6	7599.5
20°	5829.8	5783.5	5487.3	5287.5	5287.5	5308.9	5416.0	5655.0	6093.9	6843.1	7813.6
22.5°	6472.1	6379.3	5961.9	5690.7	5619.3	5647.9	5694.3	5851.3	6168.8	6975.1	8081.1
25°	7192.8	7107.1	6611.2	6229.4	6129.5	6140.2	6101.0	6129.5	6332.9	7157.1	8413.0
27.5°	7959.8	7902.8	7374.7	6889.5	6732.5	6732.5	6593.4	6525.6	6561.2	7364.0	8784.0
30°	8644.9	8566.4	8120.4	7588.8	7381.9	7381.9	7117.8	6971.6	6885.9	7617.3	9279.9
32.5°	9005.2	8958.8	8662.7	8256.0	8002.7	7963.4	7735.1	7563.8	7364.0	7992.0	9950.7
35°	9476.2	9465.5	9287.1	8969.5	8648.4	8591.3	8434.4	8298.8	7952.7	8459.3	10842.7
37.5°	10068.4	10050.6	10022.1	9833.0	9447.6	9436.9	9297.8	9133.7	8684.1	9133.7	11923.7
40°	10732.0	10699.9	10664.3	10660.7	10428.8	10389.5	10378.8	10193.3	9565.4	9947.1	13051.1
42.5°	11645.4	11534.8	11199.4	11349.3	11520.5	11484.9	11620.4	11342.1	10664.3	10914.0	14117.9
45°	12769.3	12498.1	11834.5	11877.3	12309.0	12380.4	12851.3	12783.6	11873.8	12030.7	15241.8
47.5°	13443.6	13208.1	12590.9	12555.2	13094.0	13183.2	14207.1	14335.6	13176.0	13375.8	16629.7
50°	13996.6	13832.5	13325.9	13375.8	13946.7	14035.9	15552.2	15826.9	14403.4	14753.0	18242.3
52.5°	14663.8	14428.3	14035.9	14271.3	14970.6	15077.7	17047.1	17343.2	15509.4	16265.8	19912.1
55°	15038.4	14942.1	14949.2	15309.6	16187.3	16333.6	18613.4	18563.4	16522.6	17560.9	21168.0
57.5°	15901.8	15866.2	16194.4	16330.0	17607.3	17796.4	20179.7	19751.5	17443.1	18563.4	21770.9
60°	17425.3	17336.1	17621.5	17828.5	19362.6	19630.2	21927.9	20914.7	18067.5	19309.1	21567.6
62.5°	19566.0	19455.4	19466.1	19794.4	21713.8	21995.7	23872.4	21885.1	18260.2	19423.3	20279.6
65°	22227.6	22067.1	21885.1	22331.1	24835.7	25071.2	25988.1	22591.5	17799.9	18324.4	17589.4
67.5°	25035.5	24903.5	24689.4	25624.2	28878.1	29020.8	28360.7	22530.9	16340.7	15384.5	12337.6
70°	25199.6	25231.7	26245.0	29627.3	34154.9	34190.6	30604.9	21310.7	13233.1	9972.1	6147.4
72.5°	23508.5	23455.0	24775.1	30358.7	38400.6	38521.9	31664.5	17264.8	8177.5	4973.6	2882.8
75°	19095.1	19187.8	20575.7	26562.5	32913.3	33020.3	25813.3	10179.0	3885.4	2433.3	1844.6
77.5°	8220.3	8737.6	11474.2	18713.3	23572.7	23240.9	13304.5	4124.4	2072.9	1734.0	1412.9
80°	2372.6	2576.0	4088.7	8898.2	14125.1	13875.3	5266.1	1544.9	1445.0	1302.3	1013.3
82.5°	767.1	849.1	1498.5	3542.9	6329.3	6322.2	1998.0	913.4	945.5	884.8	652.9
85°	214.1	246.2	460.3	1073.9	1958.7	1919.5	578.0	431.7	503.1	510.2	324.7
87.5°	0.0	0.0	3.6	7.1	7.1	7.1	14.3	64.2	146.3	185.5	132.0
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°	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8	7035.8
2.5°	7078.6	7067.9	7214.2	7328.3	7435.4	7506.7	7528.1	7542.4	7570.9	7585.2	7570.9
5°	7128.5	7182.1	7424.7	7603.1	7745.8	7831.4	7835.0	7827.8	7849.2	7831.4	7820.7
7.5°	7235.6	7339.0	7645.9	7835.0	7927.7	7931.3	7845.7	7745.8	7695.8	7653.0	7638.7
10°	7378.3	7531.7	7867.1	7992.0	7963.4	7831.4	7642.3	7485.3	7396.1	7331.9	7317.6
12.5°	7574.5	7745.8	8063.3	8059.7	7881.3	7645.9	7424.7	7235.6	7107.1	7032.2	7007.2
15°	7760.0	7977.7	8206.0	8038.3	7756.5	7471.0	7185.6	6932.3	6761.0	6643.3	6621.9
17.5°	7988.4	8220.3	8309.5	7970.5	7599.5	7232.0	6850.2	6518.4	6286.5	6147.4	6136.7
20°	8252.4	8459.3	8359.4	7852.8	7396.1	6914.5	6397.1	6026.1	5776.3	5640.7	5651.5
22.5°	8559.2	8709.1	8373.7	7692.3	7114.3	6464.9	5886.9	5530.1	5362.5	5291.1	5294.7
25°	8887.5	8983.8	8348.7	7474.6	6682.6	5915.5	5362.5	5198.3	5184.1	5166.2	5173.4
27.5°	9276.4	9255.0	8273.8	7167.8	6101.0	5276.8	4995.0	5037.8	5094.9	5087.7	5094.9
30°	9797.3	9593.9	8177.5	6743.2	5408.8	4741.7	4777.3	4898.6	4973.6	4980.7	5002.1
32.5°	10393.1	9968.5	8024.1	6165.2	4748.8	4442.0	4574.0	4720.2	4809.4	4827.3	4855.8
35°	11103.1	10396.7	7752.9	5444.5	4274.3	4263.6	4384.9	4484.8	4581.1	4588.2	4588.2
37.5°	11920.1	10824.8	7321.2	4648.9	3981.7	4110.1	4224.3	4245.7	4270.7	4249.3	4260.0
40°	12669.4	11238.7	6707.5	3924.6	3742.7	3974.6	4070.9	3999.5	3921.1	3867.5	3878.2
42.5°	13297.3	11520.5	5894.1	3418.0	3500.0	3853.3	3928.2	3781.9	3628.5	3528.6	3542.9
45°	14003.8	11781.0	4937.9	3075.5	3293.1	3767.6	3817.6	3628.5	3432.3	3282.4	3261.0
47.5°	14977.8	12312.6	4088.7	2836.4	3146.8	3721.3	3803.3	3546.4	3289.5	3064.8	3039.8
50°	16180.1	13065.4	3378.7	2679.4	3079.0	3696.3	3799.7	3457.2	3150.4	2886.4	2868.5
52.5°	17493.1	13800.4	2854.3	2558.1	3011.3	3621.4	3781.9	3357.3	3004.1	2718.7	2697.3
55°	18367.2	14089.4	2501.1	2444.0	2900.7	3503.6	3710.5	3261.0	2782.9	2522.5	2490.3
57.5°	18624.1	13718.3	2254.9	2340.5	2757.9	3339.5	3575.0	3057.6	2647.3	2440.4	2415.4
60°	18181.7	12783.6	2101.5	2254.9	2601.0	3129.0	3339.5	2939.9	2540.3	2354.8	2336.9
62.5°	16932.9	11342.1	1983.7	2165.7	2440.4	2907.8	3189.6	2797.2	2422.6	2276.3	2251.3
65°	14421.2	9301.3	1887.4	2072.9	2287.0	2697.3	3025.5	2654.5	2294.1	2183.5	2155.0
67.5°	10086.3	6532.7	1783.9	1962.3	2133.6	2493.9	2854.3	2522.5	2162.1	2080.0	2051.5
70°	4930.7	3464.4	1659.0	1833.9	1969.4	2287.0	2683.0	2361.9	1987.3	1940.9	1901.7
72.5°	2347.6	1937.3	1512.8	1659.0	1744.7	2012.3	2397.6	2130.0	1780.4	1680.5	1612.7
75°	1573.4	1377.2	1320.1	1452.1	1473.5	1687.6	2055.1	1837.4	1569.8	1455.7	1398.6
77.5°	1191.7	1052.5	1109.6	1227.3	1184.5	1387.9	1691.2	1637.6	1416.4	1313.0	1284.4
80°	838.4	767.1	881.3	952.6	920.5	1181.0	1523.5	1402.2	1166.7	1052.5	1031.1
82.5°	528.0	513.8	649.3	660.0	670.8	934.8	1252.3	1102.5	906.2	745.7	692.2
85°	264.0	292.6	388.9	388.9	385.3	481.7	713.6	620.8	488.8	388.9	378.2
87.5°	89.2	124.9	167.7	135.6	103.5	82.1	92.8	114.2	121.3	117.7	117.7
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)