

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: P643840

Luminaire Tested: GWS-SA6F-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643840
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-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48501.2 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

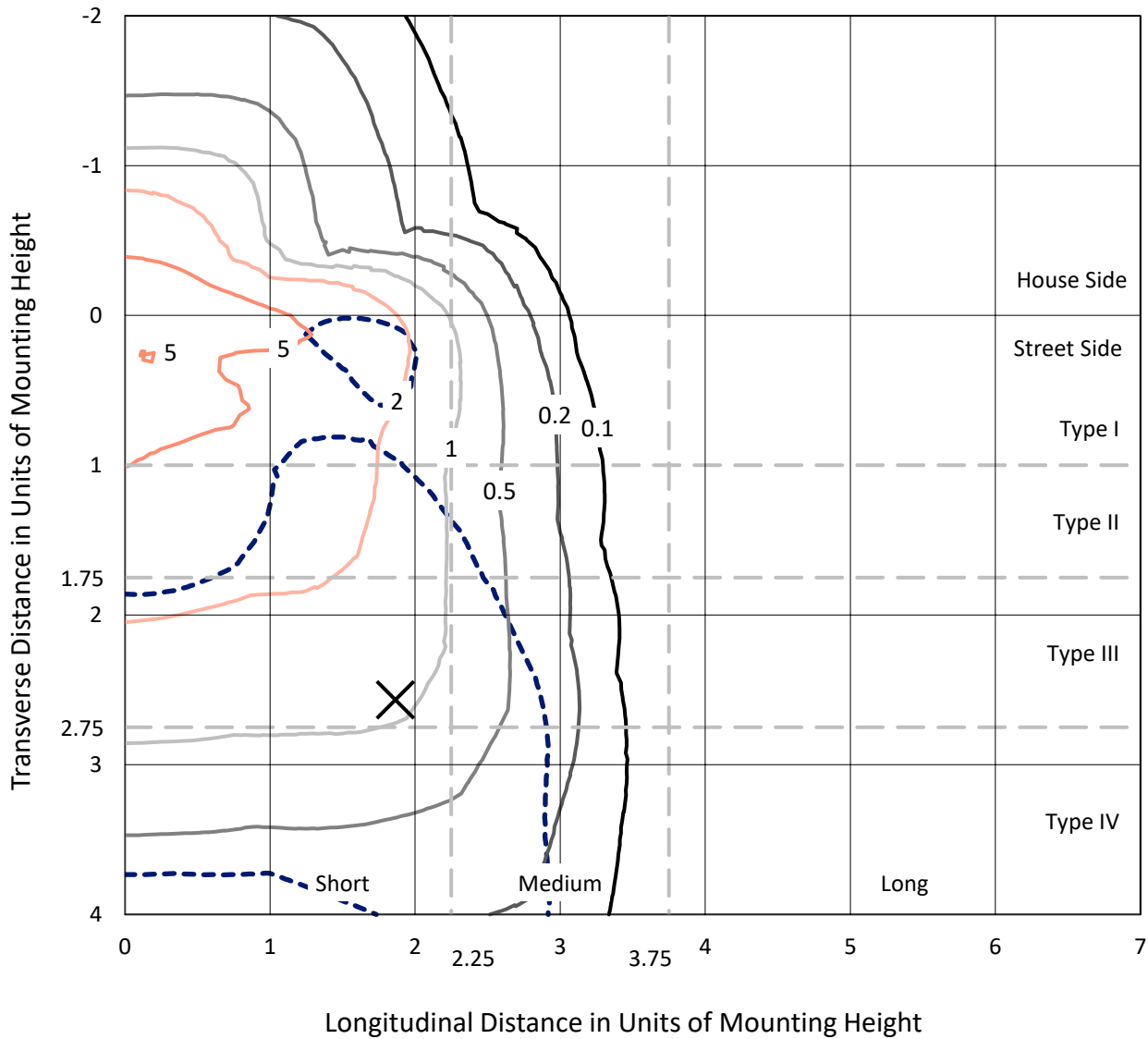
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

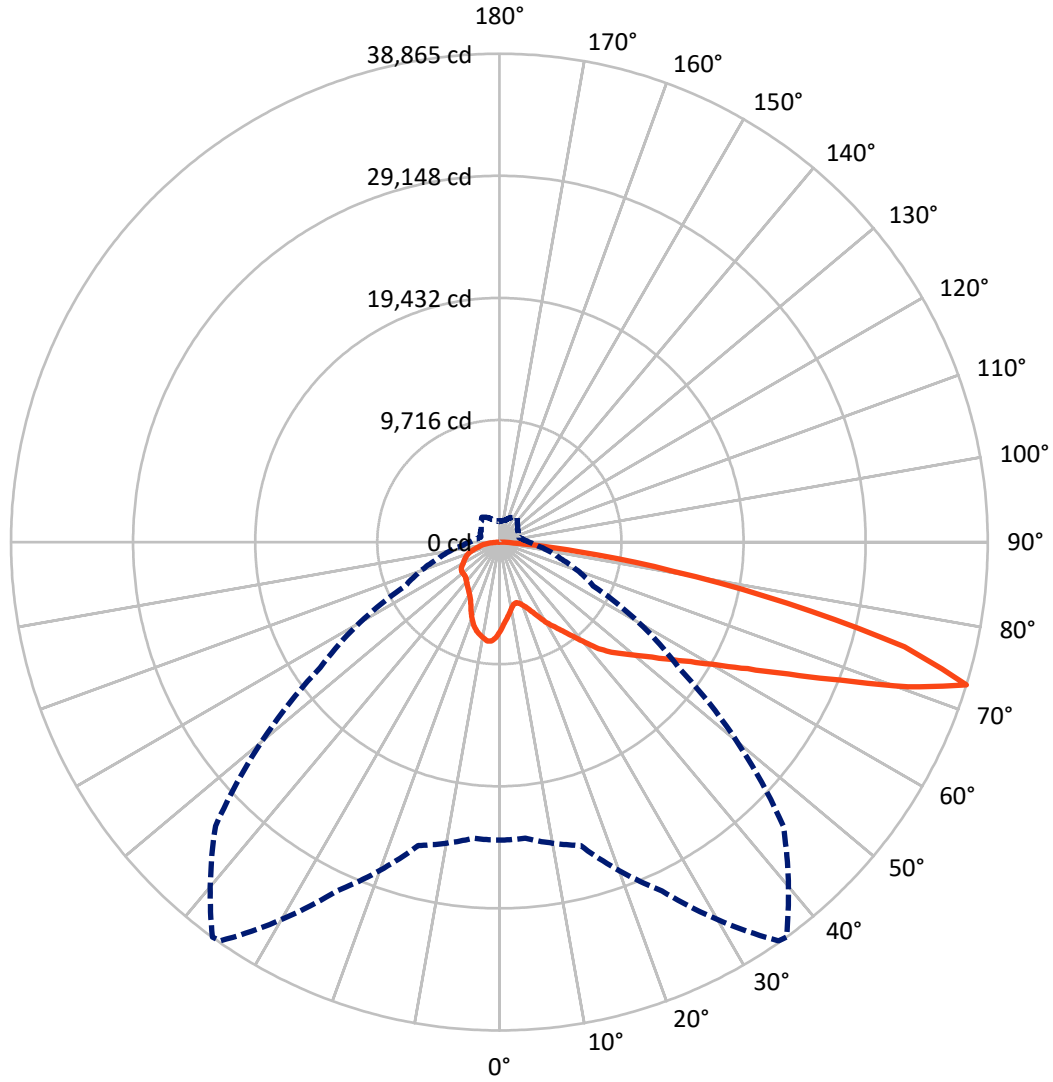
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	11181.6	0.0	11181.6
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	37319.6	0.0	37319.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	48501.2	0.0	48501.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.5	1.4
10°-20°	1872.0	3.9
20°-30°	3100.3	6.4
30°-40°	4642.9	9.6
40°-50°	6773.6	14.0
50°-60°	9641.0	19.9
60°-70°	12180.6	25.1
70°-80°	8679.7	17.9
80°-90°	947.5	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°	48501.2	100.0
0°-180°	48501.2	100.0

Coefficient of Utilization



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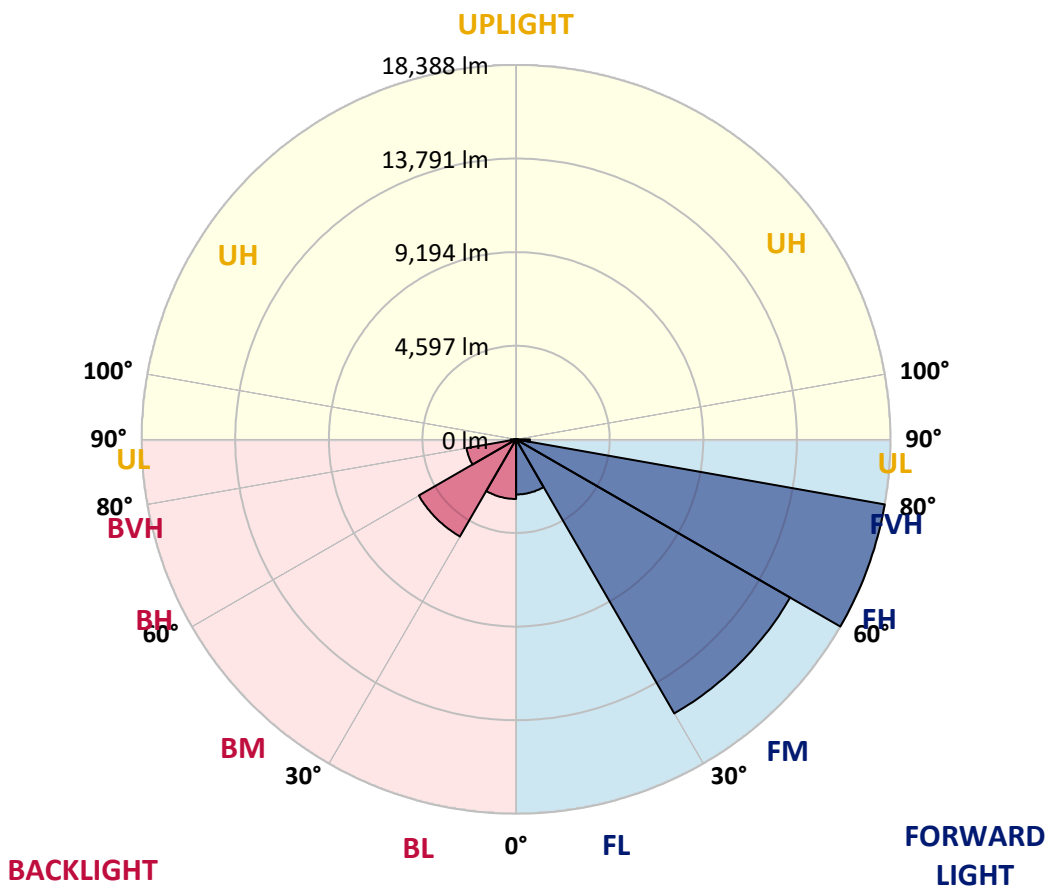
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2707.7	5.6			
FM (30°-60°)	15543.4	32.0			
FH (60°-80°)	18388.4	37.9			G5
FVH (80°-90°)	680.1	1.4			G4/750
BL (0°-30°)	2928.1	6.0	B4/5000		
BM (30°-60°)	5514.1	11.4	B4/8500		
BH (60°-80°)	2472.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	267.4	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°	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4
2.5°	6475.6	6464.8	6443.2	6508.0	6572.8	6565.6	6655.6	6742.0	6835.6	6932.8	7062.4
5°	5957.3	5950.1	5932.1	6029.3	6126.5	6122.9	6270.5	6410.8	6601.6	6810.4	7069.6
7.5°	5439.0	5421.0	5446.2	5568.5	5705.3	5719.7	5921.3	6151.7	6428.8	6742.0	7109.2
10°	4981.8	4978.2	4989.0	5125.8	5331.0	5345.4	5604.5	5924.9	6292.1	6709.6	7199.2
12.5°	4863.0	4855.8	4827.0	4895.4	5050.2	5071.8	5356.2	5748.5	6198.5	6727.6	7321.5
15°	5057.4	5039.4	4938.6	4906.2	4981.8	4999.8	5241.0	5644.1	6144.5	6760.0	7476.3
17.5°	5392.2	5381.4	5190.6	5057.4	5107.8	5122.2	5302.2	5626.1	6130.1	6824.8	7667.1
20°	5881.7	5834.9	5536.2	5334.6	5334.6	5356.2	5464.2	5705.3	6148.1	6904.0	7883.1
22.5°	6529.6	6436.0	6014.9	5741.3	5669.3	5698.1	5744.9	5903.3	6223.7	7037.2	8153.0
25°	7256.7	7170.4	6670.0	6284.9	6184.1	6194.9	6155.3	6184.1	6389.3	7220.8	8487.8
27.5°	8030.7	7973.1	7440.3	6950.8	6792.4	6792.4	6652.0	6583.6	6619.6	7429.5	8862.2
30°	8721.8	8642.6	8192.6	7656.3	7447.5	7447.5	7181.2	7033.6	6947.2	7685.1	9362.5
32.5°	9085.3	9038.5	8739.8	8329.4	8073.9	8034.3	7803.9	7631.1	7429.5	8063.1	10039.2
35°	9560.5	9549.7	9369.7	9049.3	8725.4	8667.8	8509.4	8372.6	8023.5	8534.6	10939.1
37.5°	10158.0	10140.0	10111.2	9920.4	9531.7	9520.9	9380.5	9214.9	8761.4	9214.9	12029.8
40°	10827.5	10795.1	10759.1	10755.5	10521.6	10482.0	10471.2	10284.0	9650.5	10035.6	13167.3
42.5°	11749.0	11637.4	11299.1	11450.3	11623.0	11587.0	11723.8	11443.1	10759.1	11011.1	14243.5
45°	12882.9	12609.3	11939.8	11983.0	12418.5	12490.5	12965.7	12897.3	11979.4	12137.8	15377.4
47.5°	13563.2	13325.6	12702.9	12666.9	13210.5	13300.4	14333.5	14463.1	13293.2	13494.8	16777.6
50°	14121.1	13955.6	13444.4	13494.8	14070.8	14160.7	15690.6	15967.7	14531.5	14884.3	18404.6
52.5°	14794.3	14556.7	14160.7	14398.3	15103.8	15211.8	17198.8	17497.5	15647.4	16410.5	20089.2
55°	15172.2	15075.0	15082.2	15445.8	16331.3	16478.9	18779.0	18728.6	16669.6	17717.1	21356.3
57.5°	16043.3	16007.3	16338.5	16475.3	17763.9	17954.7	20359.2	19927.3	17598.3	18728.6	21964.6
60°	17580.3	17490.3	17778.3	17987.1	19534.9	19804.9	22123.0	21100.7	18228.3	19480.9	21759.4
62.5°	19740.1	19628.5	19639.3	19970.5	21907.0	22191.4	24084.8	22079.8	18422.6	19596.1	20460.0
65°	22425.4	22263.4	22079.8	22529.8	25056.7	25294.2	26219.3	22792.5	17958.3	18487.4	17745.9
67.5°	25258.2	25125.1	24909.1	25852.2	29135.0	29279.0	28613.0	22731.3	16486.1	15521.4	12447.3
70°	25423.8	25456.2	26478.5	29890.9	34458.8	34494.8	30877.2	21500.3	13350.8	10060.8	6202.1
72.5°	23717.6	23663.6	24995.5	30628.8	38742.3	38864.6	31946.3	17418.4	8250.2	5017.8	2908.5
75°	19264.9	19358.5	20758.8	26798.9	33206.1	33314.1	26042.9	10269.6	3919.9	2454.9	1861.0
77.5°	8293.4	8815.4	11576.2	18879.8	23782.4	23447.7	13422.8	4161.1	2091.4	1749.4	1425.4
80°	2393.7	2598.9	4125.1	8977.3	14250.7	13998.8	5313.0	1558.6	1457.8	1313.8	1022.3
82.5°	773.9	856.7	1511.8	3574.4	6385.7	6378.5	2015.8	921.5	953.9	892.7	658.7
85°	216.0	248.4	464.3	1083.5	1976.2	1936.6	583.1	435.5	507.5	514.7	327.6
87.5°	0.0	0.0	3.6	7.2	7.2	7.2	14.4	64.8	147.6	187.2	133.2
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°	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4	7098.4
2.5°	7141.6	7130.8	7278.3	7393.5	7501.5	7573.5	7595.1	7609.5	7638.3	7652.7	7638.3
5°	7192.0	7246.0	7490.7	7670.7	7814.7	7901.1	7904.7	7897.5	7919.1	7901.1	7890.3
7.5°	7299.9	7404.3	7713.9	7904.7	7998.3	8001.9	7915.5	7814.7	7764.3	7721.1	7706.7
10°	7443.9	7598.7	7937.1	8063.1	8034.3	7901.1	7710.3	7551.9	7461.9	7397.1	7382.7
12.5°	7641.9	7814.7	8135.0	8131.4	7951.5	7713.9	7490.7	7299.9	7170.4	7094.8	7069.6
15°	7829.1	8048.7	8279.0	8109.8	7825.5	7537.5	7249.6	6994.0	6821.2	6702.4	6680.8
17.5°	8059.5	8293.4	8383.4	8041.5	7667.1	7296.3	6911.2	6576.4	6342.5	6202.1	6191.3
20°	8325.8	8534.6	8433.8	7922.7	7461.9	6976.0	6454.0	6079.7	5827.7	5690.9	5701.7
22.5°	8635.4	8786.6	8448.2	7760.7	7177.6	6522.4	5939.3	5579.3	5410.2	5338.2	5341.8
25°	8966.5	9063.7	8423.0	7541.1	6742.0	5968.1	5410.2	5244.6	5230.2	5212.2	5219.4
27.5°	9358.9	9337.3	8347.4	7231.6	6155.3	5323.8	5039.4	5082.6	5140.2	5133.0	5140.2
30°	9884.4	9679.3	8250.2	6803.2	5457.0	4783.8	4819.8	4942.2	5017.8	5025.0	5046.6
32.5°	10485.6	10057.2	8095.5	6220.1	4791.0	4481.5	4614.7	4762.2	4852.2	4870.2	4899.0
35°	11201.9	10489.2	7821.9	5493.0	4312.3	4301.5	4423.9	4524.7	4621.9	4629.1	4629.1
37.5°	12026.2	10921.1	7386.3	4690.3	4017.1	4146.7	4261.9	4283.5	4308.7	4287.1	4297.9
40°	12782.1	11338.7	6767.2	3959.5	3776.0	4009.9	4107.1	4035.1	3955.9	3901.9	3912.7
42.5°	13415.6	11623.0	5946.5	3448.4	3531.2	3887.5	3963.1	3815.6	3660.8	3560.0	3574.4
45°	14128.3	11885.8	4981.8	3102.8	3322.4	3801.2	3851.5	3660.8	3462.8	3311.6	3290.0
47.5°	15111.0	12422.1	4125.1	2861.7	3174.8	3754.4	3837.2	3578.0	3318.8	3092.0	3066.8
50°	16324.1	13181.7	3408.8	2703.3	3106.4	3729.2	3833.6	3488.0	3178.4	2912.1	2894.1
52.5°	17648.7	13923.2	2879.7	2580.9	3038.0	3653.6	3815.6	3387.2	3030.8	2742.9	2721.3
55°	18530.6	14214.7	2523.3	2465.7	2926.5	3534.8	3743.6	3290.0	2807.7	2544.9	2512.5
57.5°	18789.8	13840.4	2274.9	2361.3	2782.5	3369.2	3606.8	3084.8	2670.9	2462.1	2436.9
60°	18343.4	12897.3	2120.2	2274.9	2624.1	3156.8	3369.2	2966.1	2562.9	2375.7	2357.7
62.5°	17083.6	11443.1	2001.4	2184.9	2462.1	2933.7	3218.0	2822.1	2444.1	2296.5	2271.3
65°	14549.5	9384.1	1904.2	2091.4	2307.3	2721.3	3052.4	2678.1	2314.5	2202.9	2174.1
67.5°	10176.0	6590.8	1799.8	1979.8	2152.5	2516.1	2879.7	2544.9	2181.3	2098.6	2069.8
70°	4974.6	3495.2	1673.8	1850.2	1987.0	2307.3	2706.9	2382.9	2005.0	1958.2	1918.6
72.5°	2368.5	1954.6	1526.2	1673.8	1760.2	2030.2	2418.9	2148.9	1796.2	1695.4	1627.0
75°	1587.4	1389.4	1331.8	1465.0	1486.6	1702.6	2073.4	1853.8	1583.8	1468.6	1411.0
77.5°	1202.3	1061.9	1119.5	1238.3	1195.1	1400.2	1706.2	1652.2	1429.0	1324.6	1295.8
80°	845.9	773.9	889.1	961.1	928.7	1191.5	1537.0	1414.6	1177.1	1061.9	1040.3
82.5°	532.7	518.3	655.1	665.9	676.7	943.1	1263.5	1112.3	914.3	752.3	698.3
85°	266.4	295.2	392.4	392.4	388.8	485.9	719.9	626.3	493.1	392.4	381.6
87.5°	90.0	126.0	169.2	136.8	104.4	82.8	93.6	115.2	122.4	118.8	118.8
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)