

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: P636289

Luminaire Tested: GWS-SA3F-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

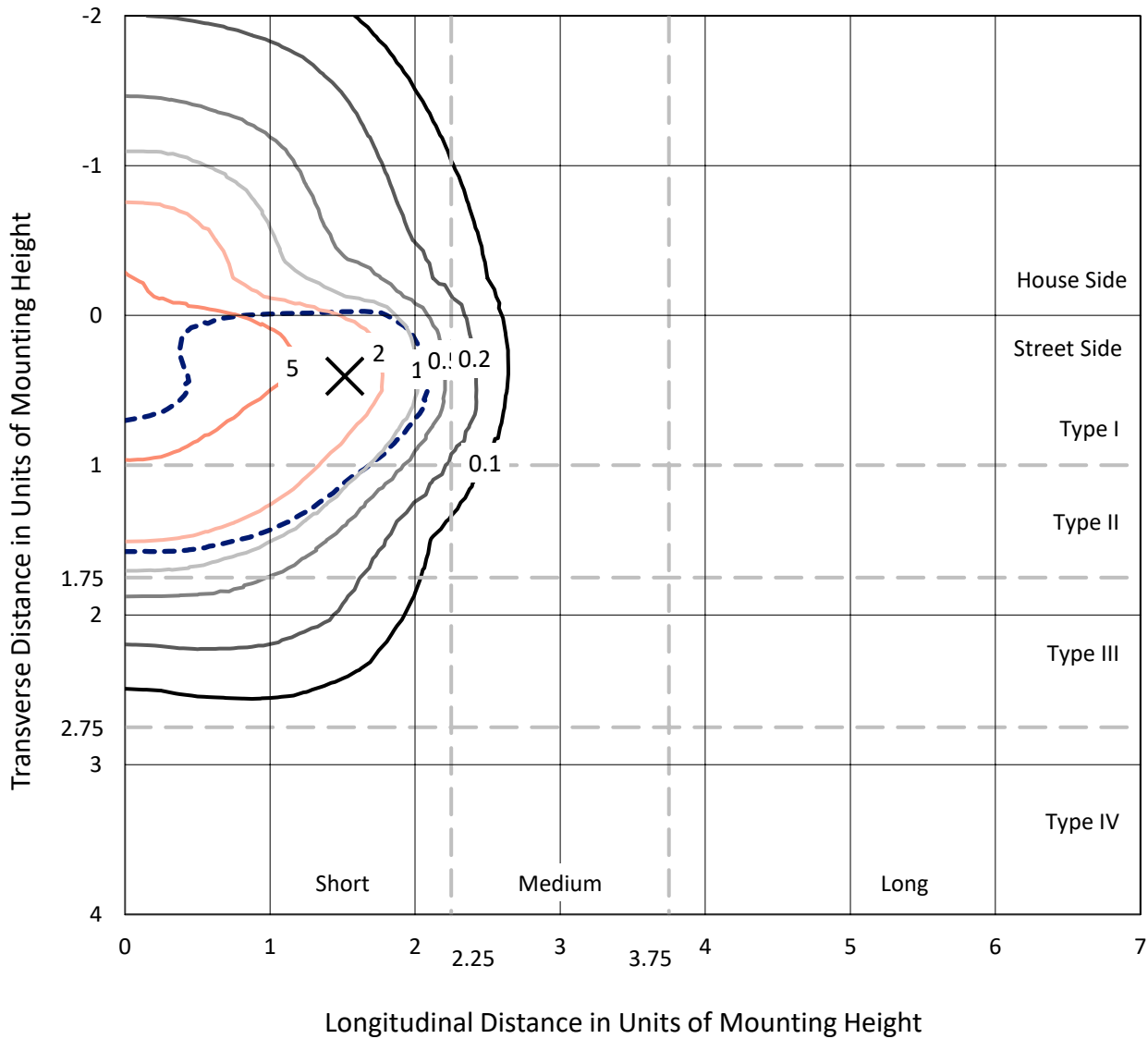
Lumens per Lamp: N/A  
Luminaire Lumens: 20385 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

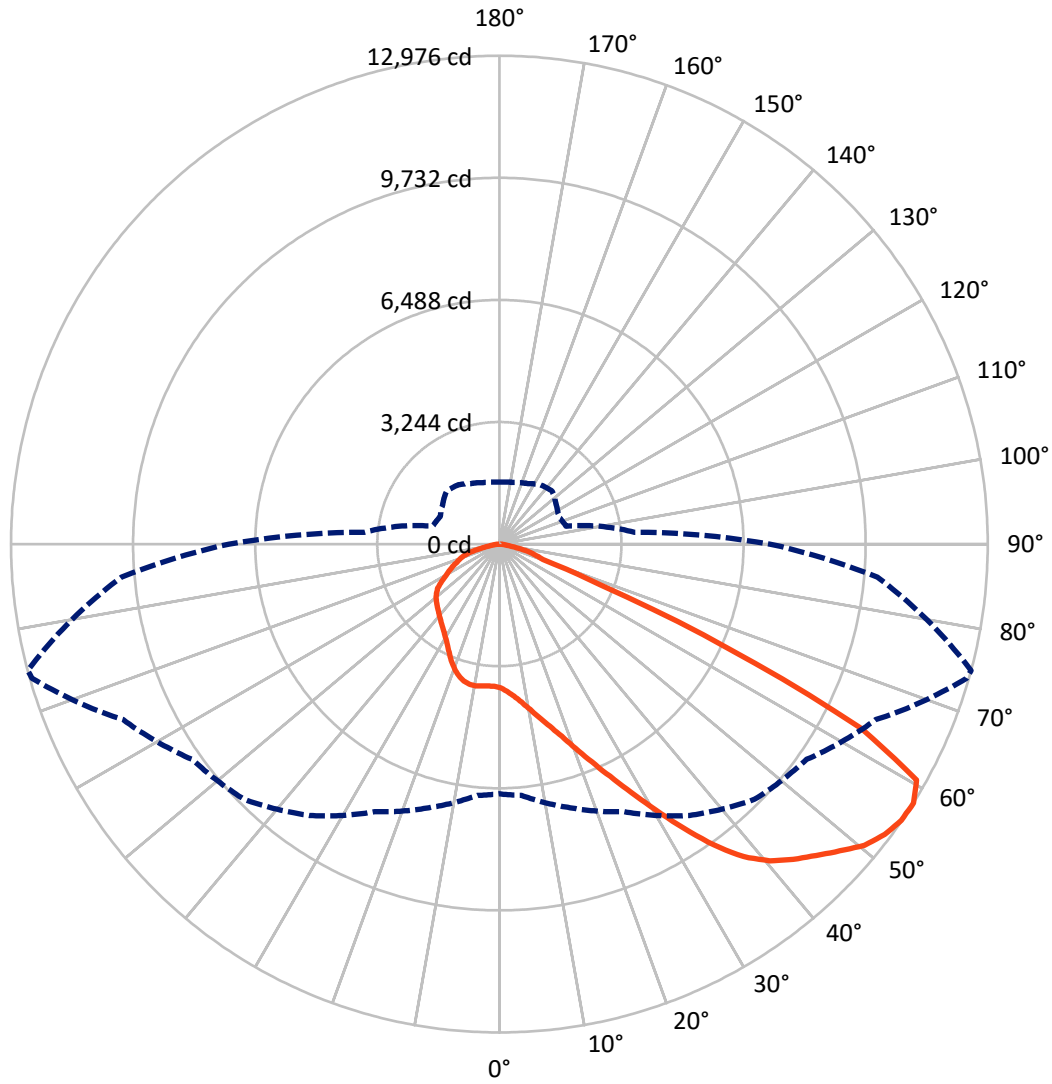
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5514.5	0.0	5514.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	14870.5	0.0	14870.5
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	20385.0	0.0	20385.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.0	1.9
10°-20°	1216.3	6.0
20°-30°	2157.1	10.6
30°-40°	3302.1	16.2
40°-50°	4597.9	22.6
50°-60°	5268.3	25.8
60°-70°	2706.9	13.3
70°-80°	681.5	3.3
80°-90°	72.9	0.4
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°	20385.0	100.0
0°-180°	20385.0	100.0

**Coefficient of Utilization**



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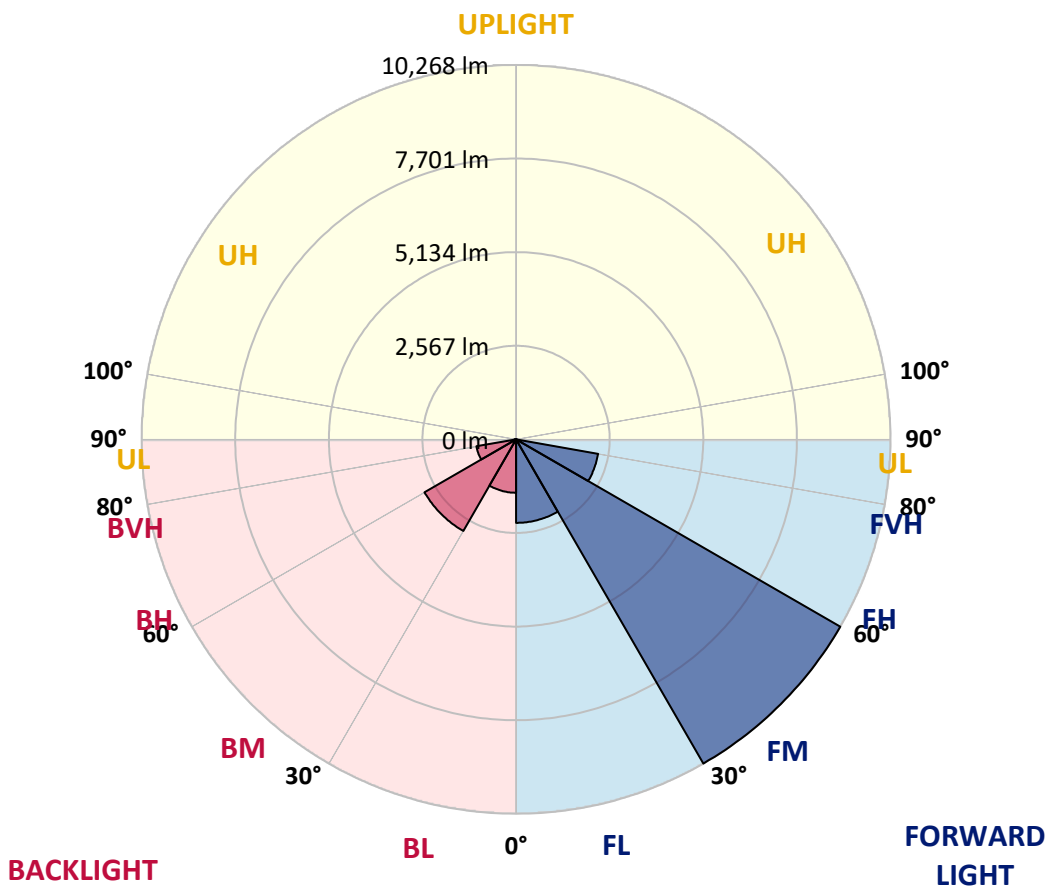
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2290.4	11.2			
FM (30°-60°)	10268.2	50.4			
FH (60°-80°)	2285.0	11.2			G2/5000
FVH (80°-90°)	27.0	0.1			G1/100
BL (0°-30°)	1465.0	7.2	B3/2500		
BM (30°-60°)	2900.2	14.2	B3/5000		
BH (60°-80°)	1103.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.9	0.2			G1/100
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°	65°	74°	75°	85°
0°	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6
2.5°	4101.6	4112.1	4101.6	4119.1	4084.0	4068.3	4029.7	3971.9	3926.3	3919.3	3868.5
5°	4420.6	4443.4	4429.4	4422.3	4375.0	4340.0	4282.1	4166.4	4071.8	4057.8	3957.8
7.5°	4625.7	4641.4	4641.4	4646.7	4629.2	4588.9	4527.5	4390.8	4257.6	4236.5	4085.8
10°	4694.0	4706.3	4729.1	4772.9	4808.0	4820.2	4779.9	4648.5	4485.4	4464.4	4254.1
12.5°	4709.8	4723.8	4758.9	4839.5	4935.9	5023.6	5030.6	4934.2	4751.9	4729.1	4448.6
15°	4739.6	4753.6	4800.9	4900.9	5042.8	5211.1	5314.5	5247.9	5046.3	5021.8	4669.5
17.5°	4736.1	4751.9	4822.0	4955.2	5146.3	5389.9	5589.7	5617.8	5409.2	5367.1	4920.1
20°	4727.3	4741.4	4816.7	4979.7	5216.4	5551.2	5912.2	6057.7	5833.4	5794.8	5212.9
22.5°	4797.4	4813.2	4871.1	5006.0	5253.2	5675.6	6210.2	6560.8	6336.4	6282.1	5549.4
25°	4955.2	4978.0	5013.0	5105.9	5319.8	5786.0	6515.2	7130.4	6900.8	6836.0	5915.7
27.5°	5198.8	5226.9	5276.0	5319.8	5468.8	5926.3	6818.4	7768.5	7538.8	7470.5	6303.1
30°	5496.8	5533.6	5596.7	5626.5	5728.2	6133.1	7148.0	8425.8	8292.5	8197.9	6739.6
32.5°	5908.7	5959.6	6019.2	6027.9	6089.3	6446.8	7474.0	9077.8	9076.1	9009.4	7235.6
35°	6445.1	6499.4	6511.7	6524.0	6553.8	6878.0	7868.4	9672.0	9901.6	9824.5	7775.5
37.5°	7030.5	7109.4	7128.7	7074.3	7116.4	7396.9	8311.8	10148.8	10620.3	10537.9	8297.8
40°	7656.3	7687.8	7740.4	7654.5	7707.1	7991.1	8746.5	10453.8	11156.6	11069.0	8709.7
42.5°	8105.0	8162.8	8241.7	8210.2	8240.0	8499.4	9051.5	10601.0	11538.8	11451.1	9005.9
45°	8592.3	8609.8	8660.6	8653.6	8671.2	8913.0	9270.6	10665.9	11880.5	11801.7	9258.3
47.5°	9016.5	9042.7	9076.1	9037.5	8998.9	9156.7	9449.4	10721.9	12274.9	12180.3	9523.0
50°	9424.9	9447.6	9488.0	9375.8	9232.1	9272.4	9537.0	10799.1	12644.8	12578.2	9731.6
52.5°	9500.2	9524.8	9714.1	9736.9	9552.8	9410.8	9691.3	10969.1	12862.1	12820.1	9807.0
55°	8552.0	8595.8	8972.6	9405.6	9859.6	9814.0	9938.4	11058.5	12948.0	12958.5	9941.9
57.5°	6637.9	6701.0	7251.4	7845.6	8800.9	9591.4	9970.0	11035.7	12918.2	12976.1	10080.4
60°	4354.0	4390.8	5042.8	5708.9	6699.2	7793.0	8923.6	10625.5	12653.5	12735.9	10045.4
62.5°	2629.2	2671.3	3195.4	3700.2	4283.9	5014.8	6052.5	8539.7	10606.3	10790.3	8045.4
65°	1835.2	1891.3	2350.5	2765.9	2967.5	2816.8	3065.7	4769.4	6608.1	6685.2	4916.6
67.5°	1330.4	1368.9	1745.8	2240.1	2462.7	1989.4	1516.2	2112.1	2878.1	2906.2	2028.0
70°	871.1	915.0	1256.8	1705.5	2010.5	1612.6	1134.1	1142.8	1211.2	1225.2	1177.9
72.5°	478.5	504.8	776.5	1132.3	1188.4	964.0	885.2	950.0	997.3	997.3	1009.6
75°	247.1	269.9	317.3	373.3	450.5	527.6	638.0	734.4	785.3	788.8	783.5
77.5°	126.2	135.0	170.0	184.0	201.6	234.9	305.0	390.9	436.4	454.0	450.5
80°	59.6	63.1	71.9	84.1	103.4	131.5	164.8	196.3	224.4	227.9	247.1
82.5°	31.6	35.1	38.6	45.6	56.1	70.1	96.4	115.7	133.2	136.7	152.5
85°	12.3	14.0	15.8	17.5	24.5	29.8	40.3	54.3	66.6	66.6	78.9
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.0	8.8	12.3	12.3	21.0
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°	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6	3817.6
2.5°	3856.2	3805.4	3782.6	3745.8	3716.0	3682.7	3656.4	3637.1	3624.8	3617.8	3610.8
5°	3919.3	3842.2	3780.8	3707.2	3656.4	3607.3	3567.0	3538.9	3524.9	3514.4	3507.4
7.5°	4017.4	3914.0	3798.3	3684.4	3595.0	3516.1	3465.3	3435.5	3416.2	3409.2	3404.0
10°	4152.4	4008.7	3817.6	3637.1	3503.9	3418.0	3382.9	3368.9	3370.7	3367.1	3365.4
12.5°	4304.9	4108.6	3812.4	3552.9	3405.7	3354.9	3356.6	3379.4	3405.7	3412.7	3414.5
15°	4469.7	4206.7	3761.5	3444.3	3328.6	3333.8	3379.4	3433.8	3482.8	3502.1	3505.6
17.5°	4648.5	4289.1	3668.6	3325.1	3265.5	3321.6	3405.7	3495.1	3567.0	3598.5	3607.3
20°	4848.3	4359.2	3537.2	3207.6	3205.9	3298.8	3421.5	3538.9	3630.1	3672.1	3679.1
22.5°	5060.4	4403.1	3375.9	3099.0	3144.5	3269.0	3409.2	3531.9	3628.3	3670.4	3679.1
25°	5274.2	4417.1	3198.9	2999.1	3081.4	3221.7	3349.6	3447.8	3538.9	3575.7	3582.7
27.5°	5474.0	4376.8	3030.6	2913.2	3023.6	3151.6	3237.4	3290.0	3353.1	3381.2	3386.4
30°	5677.4	4296.1	2888.6	2844.8	2958.7	3055.1	3093.7	3097.2	3121.8	3121.8	3125.3
32.5°	5882.4	4176.9	2764.2	2778.2	2878.1	2941.2	2946.5	2906.2	2876.4	2827.3	2825.5
35°	6119.1	4056.0	2662.5	2702.8	2783.5	2822.0	2806.2	2729.1	2657.3	2576.6	2573.1
37.5°	6338.2	3931.6	2576.6	2625.7	2676.5	2704.6	2667.8	2574.9	2515.3	2432.9	2420.6
40°	6518.7	3819.4	2494.2	2545.1	2569.6	2594.2	2534.6	2459.2	2468.0	2422.4	2420.6
42.5°	6623.9	3710.7	2417.1	2455.7	2471.5	2489.0	2436.4	2380.3	2427.6	2392.6	2394.3
45°	6701.0	3616.0	2347.0	2361.0	2399.6	2425.9	2376.8	2313.7	2324.2	2189.3	2157.7
47.5°	6788.6	3563.5	2280.4	2266.4	2334.7	2380.3	2304.9	2213.8	2150.7	2017.5	2005.2
50°	6881.5	3544.2	2210.3	2171.7	2254.1	2297.9	2210.3	2096.4	2014.0	1942.1	1935.1
52.5°	6913.1	3542.4	2122.7	2057.8	2140.2	2201.5	2127.9	2012.2	1914.1	1844.0	1840.5
55°	7037.5	3593.3	2010.5	1901.8	1978.9	2105.1	2050.8	1884.3	1805.4	1773.8	1770.3
57.5°	7183.0	3602.0	1833.4	1731.8	1838.7	1987.7	1919.3	1775.6	1689.7	1651.1	1647.6
60°	7123.4	3386.4	1644.1	1602.1	1719.5	1877.3	1814.2	1689.7	1589.8	1553.0	1549.5
62.5°	5428.5	2390.8	1505.7	1489.9	1591.6	1717.8	1705.5	1575.8	1481.1	1454.8	1451.3
65°	3265.5	1679.2	1372.5	1370.7	1442.6	1563.5	1579.3	1474.1	1374.2	1337.4	1337.4
67.5°	1614.3	1284.8	1221.7	1212.9	1258.5	1344.4	1411.0	1325.1	1241.0	1205.9	1200.7
70°	1141.1	1132.3	1111.3	1086.7	1095.5	1130.6	1158.6	1086.7	997.3	962.3	955.3
72.5°	986.8	988.6	974.6	955.3	948.3	923.7	899.2	846.6	792.3	755.5	759.0
75°	766.0	769.5	778.2	771.2	752.0	725.7	699.4	632.8	588.9	553.9	546.9
77.5°	447.0	464.5	492.5	485.5	489.0	452.2	441.7	376.9	336.5	312.0	306.7
80°	252.4	262.9	275.2	284.0	273.4	257.7	234.9	199.8	187.6	170.0	166.5
82.5°	152.5	163.0	168.3	175.3	171.8	150.7	133.2	110.4	99.9	91.1	89.4
85°	77.1	84.1	89.4	92.9	82.4	68.4	61.3	49.1	42.1	36.8	36.8
87.5°	19.3	21.0	24.5	21.0	19.3	8.8	7.0	1.8	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)