

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: P642687

Luminaire Tested: GWS-SA6D-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

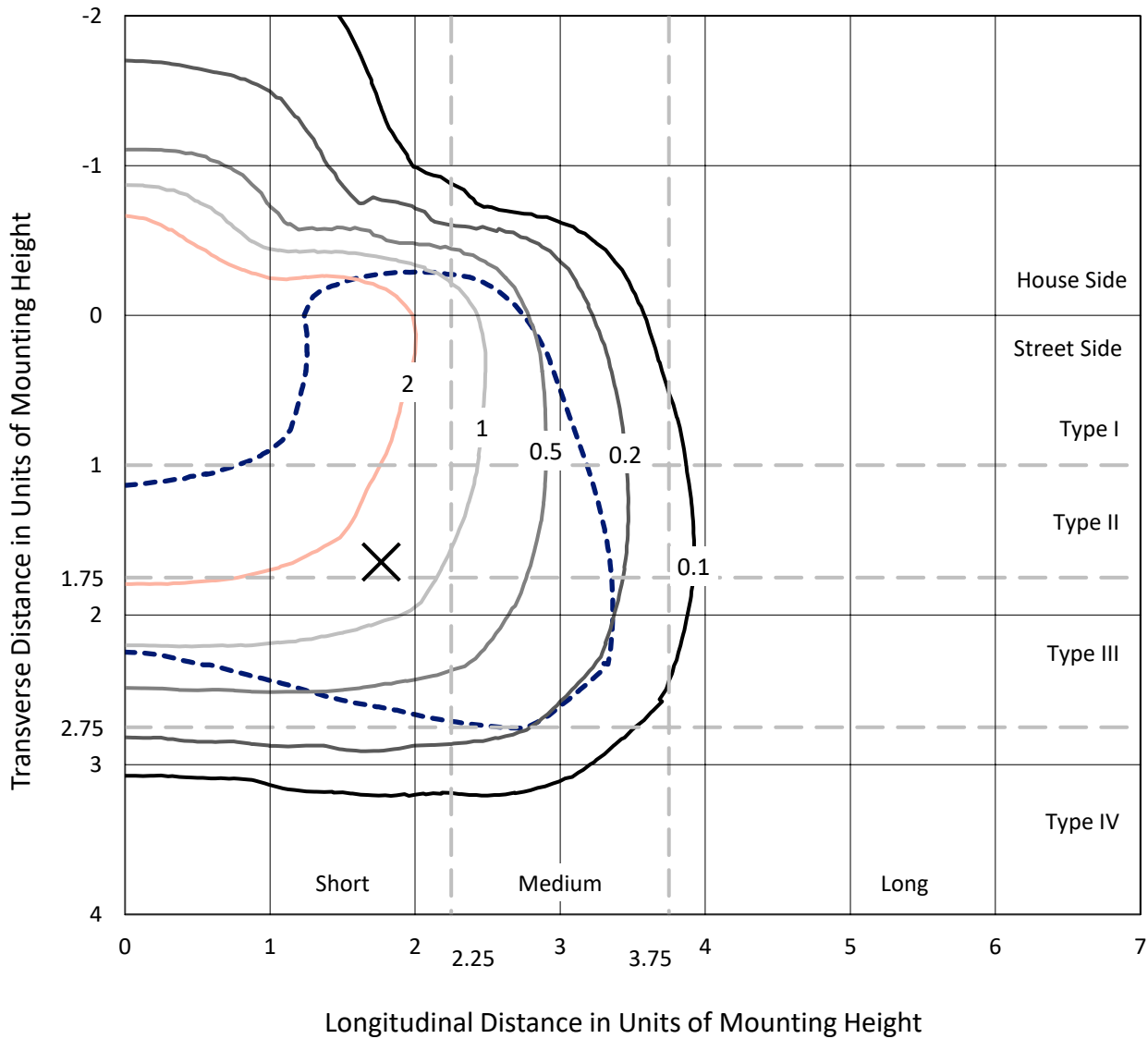
Lumens per Lamp: N/A  
Luminaire Lumens: 35028.1 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): 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

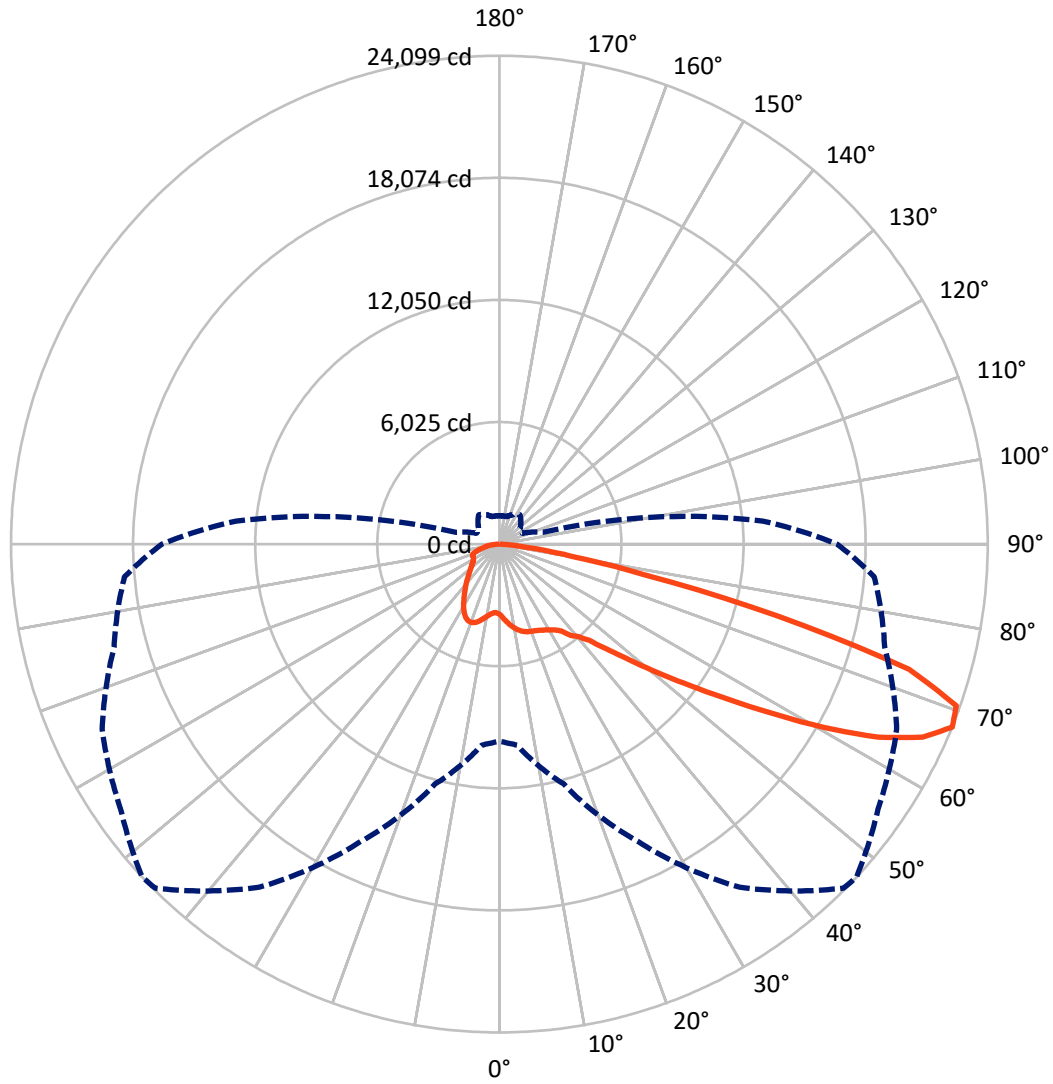
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7983.2	0.0	7983.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	27044.9	0.0	27044.9
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	35028.1	0.0	35028.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.9	1.0
10°-20°	1182.3	3.4
20°-30°	2009.7	5.7
30°-40°	2943.9	8.4
40°-50°	4485.4	12.8
50°-60°	8025.4	22.9
60°-70°	10709.1	30.6
70°-80°	4842.9	13.8
80°-90°	474.5	1.4
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°	35028.1	100.0
0°-180°	35028.1	100.0

**Coefficient of Utilization**



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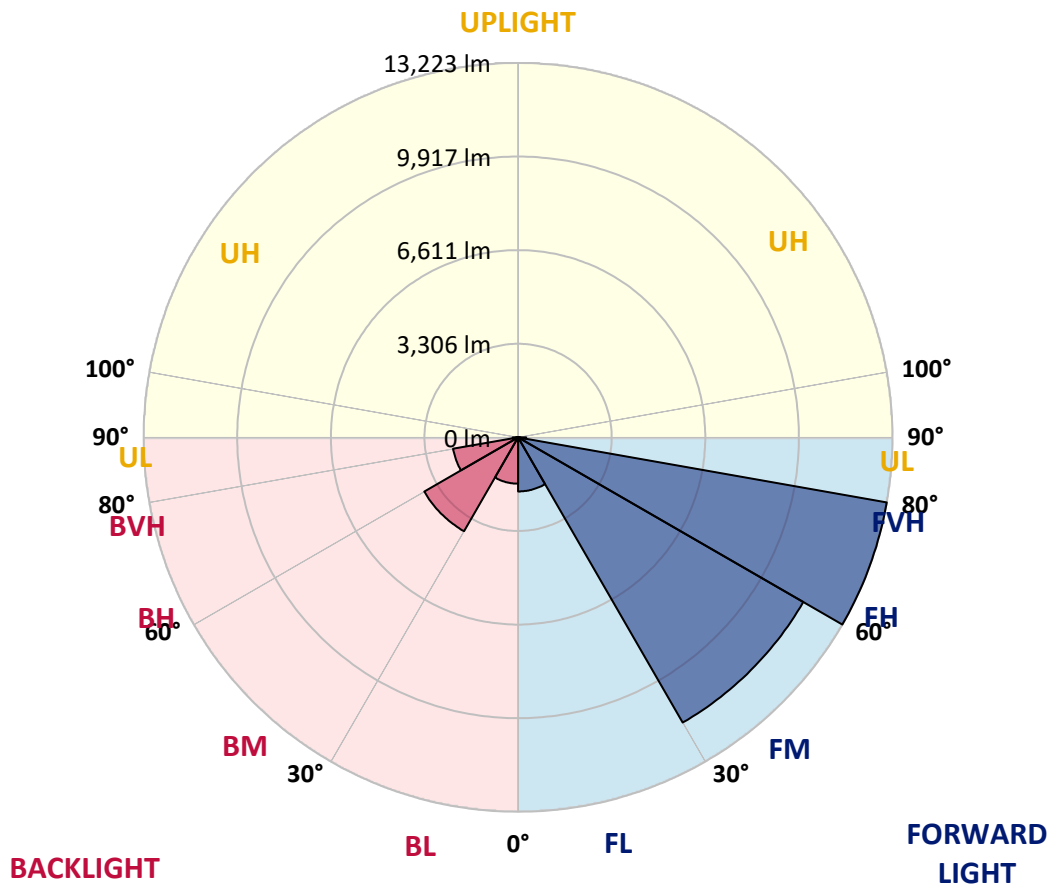
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.3	5.5			
FM (30°-60°)	11629.7	33.2			
FH (60°-80°)	13222.7	37.7			G5
FVH (80°-90°)	282.2	0.8			G3/500
BL (0°-30°)	1636.6	4.7	B3/2500		
BM (30°-60°)	3825.1	10.9	B3/5000		
BH (60°-80°)	2329.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	192.2	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°	47°	55°	65°	75°	85°
0°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3702.9	3715.5	3713.0	3692.7	3680.1	3657.3	3659.8	3624.4	3571.2	3535.7	3495.2
5°	4029.6	4049.9	4024.5	3991.6	3941.0	3867.5	3859.9	3778.9	3677.5	3606.6	3533.2
7.5°	4313.3	4325.9	4295.5	4239.8	4166.4	4067.6	4049.9	3953.6	3827.0	3715.5	3609.2
10°	4533.6	4548.8	4508.3	4434.8	4338.6	4239.8	4227.2	4128.4	3994.1	3862.4	3728.2
12.5°	4721.0	4726.1	4683.0	4584.3	4480.4	4379.1	4366.5	4275.3	4151.2	4016.9	3870.0
15°	4829.9	4832.5	4779.3	4670.4	4571.6	4483.0	4475.4	4396.8	4282.9	4156.2	3999.2
17.5°	4822.3	4827.4	4789.4	4693.2	4607.1	4553.9	4546.3	4495.6	4407.0	4293.0	4136.0
20°	4728.6	4733.7	4708.4	4645.1	4599.5	4584.3	4586.8	4571.6	4518.4	4424.7	4265.1
22.5°	4655.2	4662.8	4640.0	4594.4	4589.3	4624.8	4632.4	4640.0	4614.7	4531.1	4376.6
25°	4690.6	4703.3	4667.8	4604.5	4614.7	4693.2	4708.4	4733.7	4713.4	4642.5	4508.3
27.5°	4936.3	4943.9	4852.7	4723.6	4693.2	4776.8	4799.6	4840.1	4824.9	4759.0	4655.2
30°	5506.2	5501.1	5306.1	4989.5	4862.9	4895.8	4913.5	4971.8	4976.8	4933.8	4835.0
32.5°	6309.1	6283.7	5982.3	5478.3	5111.1	5030.0	5050.3	5128.8	5187.1	5141.5	5007.2
35°	7157.5	7134.7	6803.0	6212.8	5569.5	5288.4	5265.6	5326.4	5415.0	5288.4	5095.9
37.5°	7965.5	7930.0	7590.6	6861.2	6134.3	5741.7	5708.8	5648.0	5594.8	5351.7	5204.8
40°	8862.1	8821.6	8525.2	7699.5	6757.4	6088.7	6005.1	5764.5	5716.4	5561.9	5488.5
42.5°	9819.5	9819.5	9573.8	8760.8	7509.6	6585.1	6476.2	6114.0	6164.7	6063.4	5977.3
45°	10776.8	10804.7	10609.7	9829.6	8515.1	7522.3	7347.5	6833.3	6954.9	6909.3	6866.3
47.5°	11592.4	11645.6	11607.6	10921.2	9746.0	8662.0	8396.0	7861.6	8122.5	8231.4	8353.0
50°	12471.2	12529.5	12491.5	12220.5	11187.1	10042.3	9804.3	9252.1	9700.4	10027.1	10424.8
52.5°	13775.6	13859.2	13542.6	13438.7	12937.3	11610.1	11397.4	10769.2	11582.2	12124.2	13010.7
55°	14877.3	14874.8	14763.4	15001.4	14816.6	13527.4	13291.8	12722.0	13760.4	14335.3	15632.1
57.5°	15389.0	15449.7	15832.2	16505.9	16875.7	15870.2	15644.8	15062.2	16098.1	16397.0	17797.6
60°	15652.4	15728.3	16467.9	17800.1	18795.5	18428.3	18339.6	17597.5	18180.0	18144.6	19623.7
62.5°	15282.6	15434.5	16622.4	18392.8	20165.7	20999.0	20971.1	19849.1	19950.4	19603.4	20755.8
65°	13585.6	13750.3	15614.4	18096.5	20948.3	22954.3	22961.9	21888.0	21310.5	20312.6	20565.9
67.5°	9715.6	9951.2	12256.0	16191.8	20672.3	24010.4	24099.1	22812.4	21629.6	19684.5	18570.1
70°	5296.0	5468.2	7274.0	11769.7	18185.1	23757.1	23921.8	22366.7	20221.4	17027.6	14294.8
72.5°	2406.1	2461.8	3383.7	6458.5	12423.1	20449.4	21138.3	19960.6	16607.2	12577.6	9090.0
75°	1101.7	1127.1	1474.1	3089.9	6491.4	13684.4	14168.2	14867.2	11556.9	7942.7	4738.8
77.5°	691.4	699.0	838.3	1413.3	3236.8	6830.8	7339.9	8851.9	6767.5	3930.8	1980.6
80°	407.8	415.4	521.7	764.9	1519.6	3125.4	3609.2	3500.3	3181.1	1696.9	901.7
82.5°	205.2	212.8	301.4	435.6	828.2	1243.6	1463.9	1471.5	1185.3	919.4	509.1
85°	73.4	76.0	98.8	172.2	352.1	410.3	458.4	559.7	580.0	534.4	245.7
87.5°	0.0	0.0	2.5	5.1	10.1	40.5	43.1	81.0	169.7	190.0	98.8
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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3482.5	3444.5	3431.9	3419.2	3398.9	3391.3	3376.1	3361.0	3361.0	3345.8	3338.2
5°	3500.3	3449.6	3416.7	3401.5	3388.8	3396.4	3396.4	3401.5	3419.2	3409.1	3414.1
7.5°	3563.6	3505.3	3459.7	3447.1	3447.1	3477.5	3497.7	3523.0	3556.0	3561.0	3561.0
10°	3675.0	3606.6	3558.5	3550.9	3563.6	3606.6	3637.0	3667.4	3707.9	3710.5	3715.5
12.5°	3796.6	3728.2	3680.1	3690.2	3702.9	3758.6	3791.5	3816.8	3857.4	3857.4	3854.8
15°	3923.2	3847.2	3806.7	3827.0	3865.0	3928.3	3933.4	3935.9	3956.1	3951.1	3948.5
17.5°	4054.9	3973.9	3943.5	3973.9	4014.4	4044.8	4019.5	3984.0	3976.4	3966.3	3961.2
20°	4184.1	4100.5	4087.9	4110.6	4123.3	4098.0	4019.5	3953.6	3923.2	3908.0	3903.0
22.5°	4295.5	4224.6	4217.0	4217.0	4153.7	4065.1	3948.5	3859.9	3819.4	3799.1	3794.1
25°	4427.2	4361.4	4348.7	4280.3	4118.2	3956.1	3799.1	3718.1	3685.1	3675.0	3677.5
27.5°	4581.7	4536.1	4495.6	4300.6	4016.9	3763.7	3586.4	3550.9	3538.2	3550.9	3558.5
30°	4771.7	4726.1	4634.9	4275.3	3854.8	3512.9	3343.2	3340.7	3378.7	3411.6	3416.7
32.5°	4926.2	4905.9	4756.5	4194.2	3626.9	3236.8	3092.5	3102.6	3171.0	3216.6	3224.2
35°	5047.8	5080.7	4857.8	4060.0	3355.9	2976.0	2862.0	2867.1	2905.1	2968.4	2970.9
37.5°	5220.0	5331.4	4949.0	3854.8	3044.4	2750.6	2646.7	2608.7	2603.7	2621.4	2626.5
40°	5567.0	5734.1	5014.8	3556.0	2743.0	2547.9	2431.4	2358.0	2294.7	2246.5	2231.3
42.5°	6091.3	6283.7	5052.8	3193.8	2474.5	2347.9	2216.2	2122.4	2011.0	1909.7	1874.2
45°	7053.7	7117.0	5052.8	2808.8	2236.4	2160.4	2028.7	1917.3	1775.5	1656.4	1631.1
47.5°	8593.6	8391.0	5057.9	2436.5	2026.2	1995.8	1881.8	1755.2	1598.2	1499.4	1484.2
50°	10913.6	10201.9	5161.7	2127.5	1851.4	1856.5	1772.9	1633.6	1491.8	1418.3	1405.7
52.5°	13542.6	12433.2	5440.3	1899.6	1704.5	1742.5	1696.9	1562.7	1436.1	1372.7	1360.1
55°	16014.5	14484.8	5678.4	1737.5	1580.4	1646.3	1643.8	1519.6	1405.7	1342.4	1334.8
57.5°	18116.7	15890.4	5643.0	1605.8	1474.1	1557.6	1595.6	1491.8	1385.4	1332.2	1324.6
60°	19423.6	16635.1	5138.9	1484.2	1393.0	1494.3	1567.8	1484.2	1395.5	1382.9	1385.4
62.5°	19991.0	16498.3	4171.4	1393.0	1339.8	1463.9	1598.2	1537.4	1489.3	1519.6	1537.4
65°	19109.6	15323.1	3069.7	1324.6	1289.2	1471.5	1669.1	1621.0	1489.3	1509.5	1517.1
67.5°	16662.9	13043.6	2218.7	1256.2	1225.8	1494.3	1770.4	1608.3	1403.1	1403.1	1387.9
70°	12007.7	9381.3	1610.8	1187.9	1162.5	1461.4	1775.5	1522.2	1304.4	1296.8	1258.8
72.5°	7225.9	5534.0	1256.2	1111.9	1066.3	1296.8	1664.0	1420.9	1208.1	1144.8	1099.2
75°	3753.5	2773.4	1053.6	1028.3	914.3	1099.2	1522.2	1263.8	1033.4	977.6	952.3
77.5°	1608.3	1296.8	904.2	916.9	759.8	924.5	1228.4	1094.1	916.9	845.9	823.1
80°	792.7	737.0	714.2	734.5	607.9	714.2	1058.7	957.4	777.6	696.5	663.6
82.5°	453.4	430.6	514.1	521.7	433.1	597.7	894.1	810.5	643.3	554.7	501.5
85°	210.2	225.4	311.5	314.1	268.5	410.3	585.1	455.9	341.9	283.7	271.0
87.5°	83.6	98.8	136.8	134.2	78.5	76.0	50.7	27.9	22.8	20.3	17.7
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)