

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: P640524

Luminaire Tested: GWS-SA5E-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640524  
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-SA5E-722-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

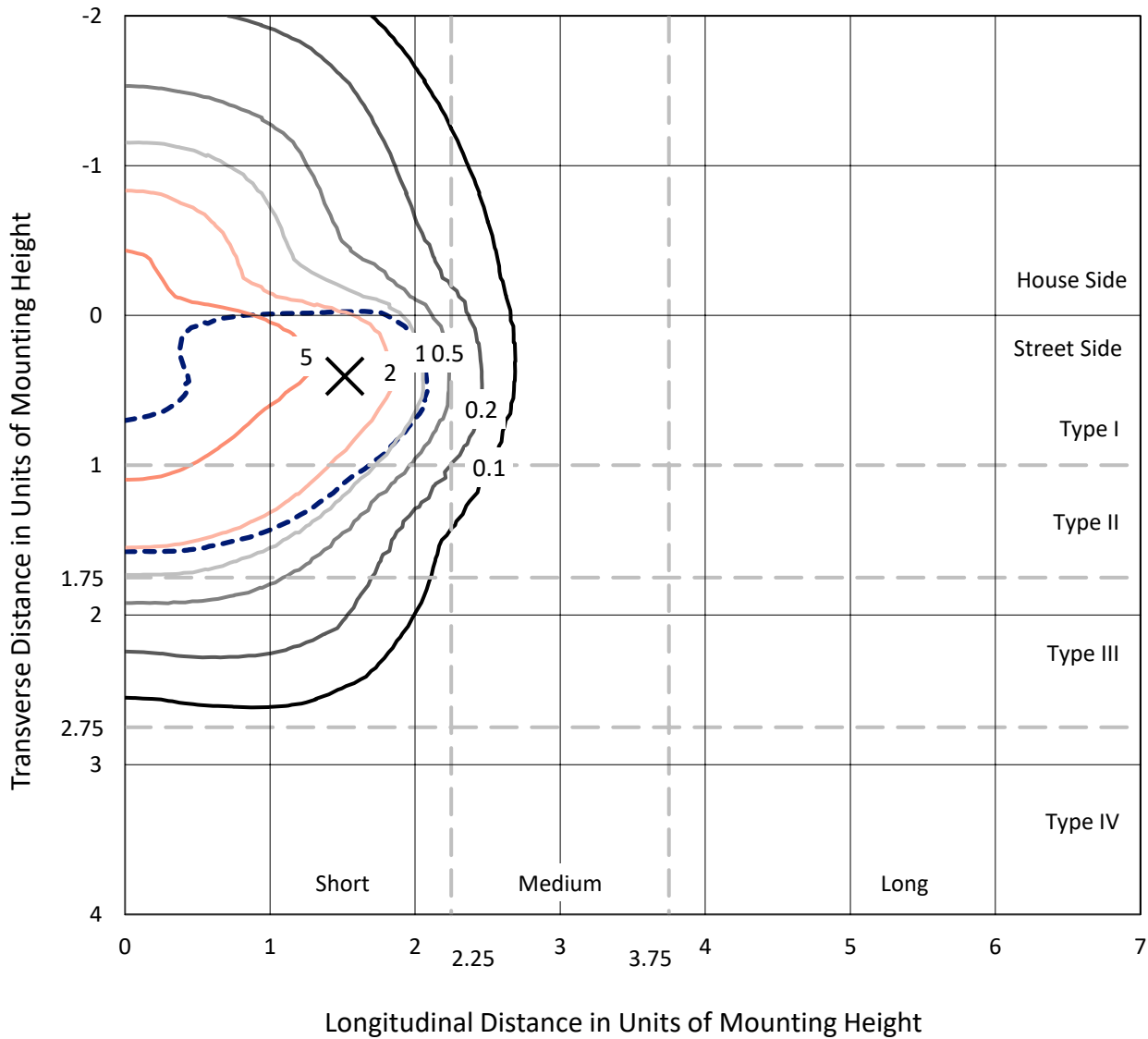
Lumens per Lamp: N/A  
Luminaire Lumens: 23054.3 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

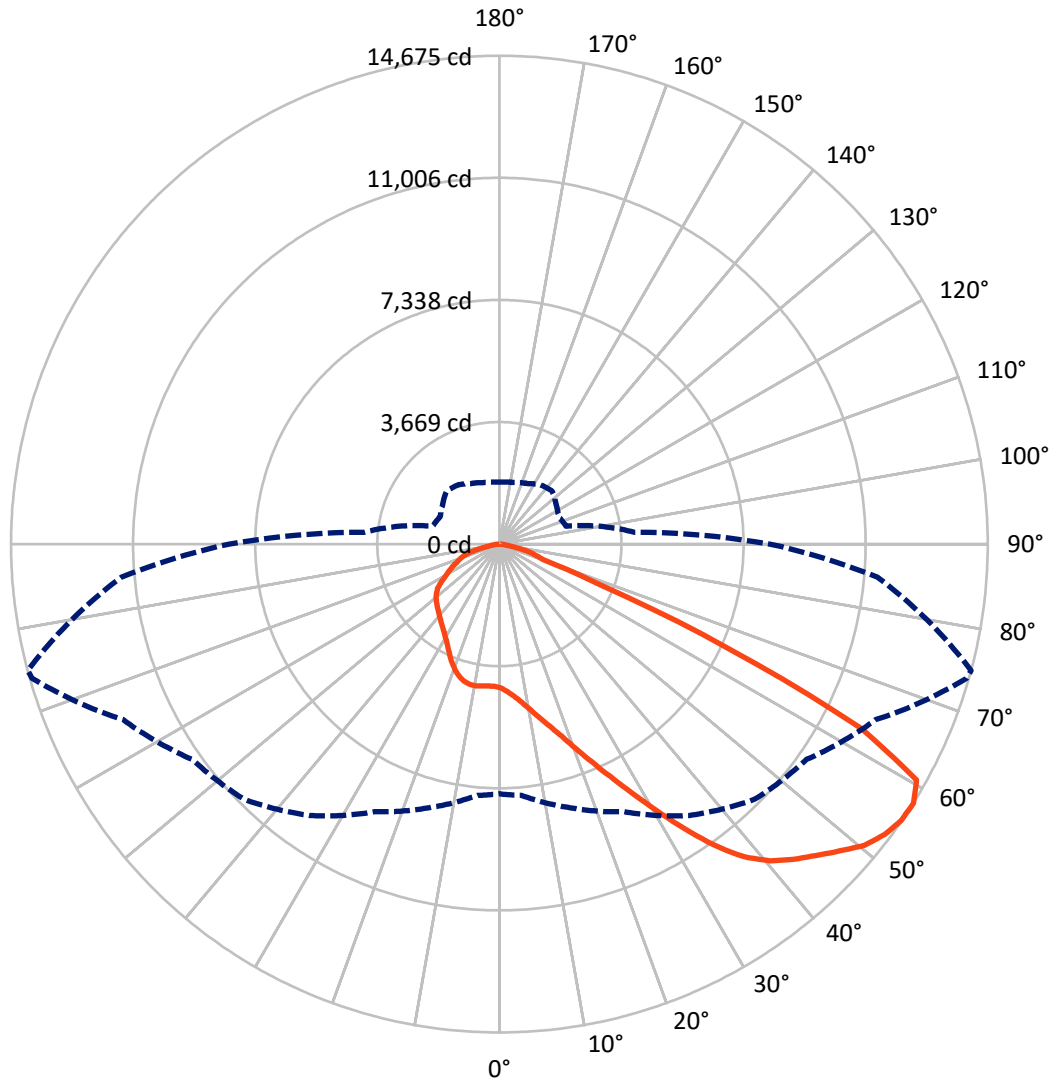
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	6236.6	0.0	6236.6
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	16817.6	0.0	16817.6
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	23054.3	0.0	23054.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.0	1.9
10°-20°	1375.6	6.0
20°-30°	2439.5	10.6
30°-40°	3734.5	16.2
40°-50°	5200.0	22.6
50°-60°	5958.2	25.8
60°-70°	3061.4	13.3
70°-80°	770.7	3.3
80°-90°	82.4	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°	23054.3	100.0
0°-180°	23054.3	100.0

**Coefficient of Utilization**



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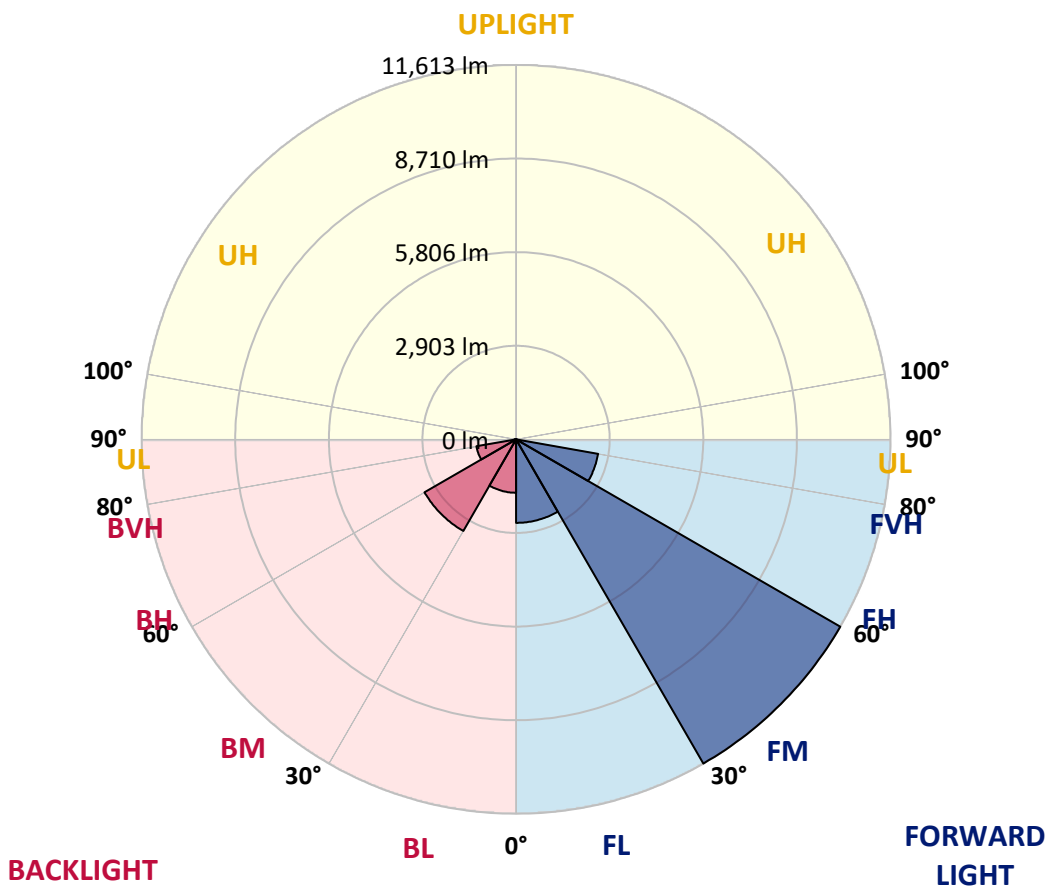
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.3	11.2			
FM (30°-60°)	11612.7	50.4			
FH (60°-80°)	2584.1	11.2			G2/5000
FVH (80°-90°)	30.5	0.1			G1/100
BL (0°-30°)	1656.8	7.2	B3/2500		
BM (30°-60°)	3279.9	14.2	B3/5000		
BH (60°-80°)	1248.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	51.9	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°	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5
2.5°	4638.7	4650.5	4638.7	4658.5	4618.8	4601.0	4557.4	4492.0	4440.4	4432.5	4375.0
5°	4999.4	5025.2	5009.4	5001.4	4947.9	4908.3	4842.8	4712.0	4605.0	4589.1	4476.1
7.5°	5231.4	5249.2	5249.2	5255.2	5235.3	5189.7	5120.4	4965.7	4815.1	4791.3	4620.8
10°	5308.7	5322.6	5348.3	5397.9	5437.5	5451.4	5405.8	5257.1	5072.8	5049.0	4811.1
12.5°	5326.5	5342.4	5382.0	5473.2	5582.2	5681.4	5689.3	5580.3	5374.1	5348.3	5031.2
15°	5360.2	5376.1	5429.6	5542.6	5703.2	5893.5	6010.4	5935.1	5707.1	5679.4	5280.9
17.5°	5356.3	5374.1	5453.4	5604.0	5820.1	6095.7	6321.7	6353.4	6117.5	6069.9	5564.4
20°	5346.3	5362.2	5447.4	5631.8	5899.4	6278.0	6686.4	6850.9	6597.2	6553.6	5895.5
22.5°	5425.6	5443.5	5508.9	5661.5	5941.0	6418.8	7023.4	7419.9	7166.1	7104.7	6276.1
25°	5604.0	5629.8	5669.5	5774.5	6016.4	6543.7	7368.3	8064.1	7804.4	7731.1	6690.4
27.5°	5879.6	5911.3	5966.8	6016.4	6184.9	6702.3	7711.3	8785.7	8526.0	8448.7	7128.5
30°	6216.6	6258.2	6329.6	6363.3	6478.3	6936.2	8083.9	9529.1	9378.4	9271.4	7622.1
32.5°	6682.4	6739.9	6807.3	6817.2	6886.6	7291.0	8452.7	10266.5	10264.5	10189.2	8183.1
35°	7289.0	7350.5	7364.4	7378.2	7411.9	7778.7	8898.7	10938.5	11198.2	11111.0	8793.6
37.5°	7951.1	8040.3	8062.1	8000.7	8048.3	8365.4	9400.2	11477.7	12010.9	11917.8	9384.4
40°	8658.8	8694.5	8754.0	8656.8	8716.3	9037.4	9891.8	11822.6	12617.5	12518.4	9850.2
42.5°	9166.3	9231.7	9320.9	9285.2	9318.9	9612.3	10236.8	11989.1	13049.7	12950.6	10185.2
45°	9717.4	9737.2	9794.7	9786.8	9806.6	10080.2	10484.5	12062.5	13436.2	13347.0	10470.7
47.5°	10197.1	10226.8	10264.5	10220.9	10177.3	10355.7	10686.7	12125.9	13882.3	13775.2	10770.0
50°	10659.0	10684.8	10730.4	10603.5	10440.9	10486.5	10785.9	12213.1	14300.5	14225.2	11005.9
52.5°	10744.2	10772.0	10986.1	11011.8	10803.7	10643.1	10960.3	12405.4	14546.3	14498.8	11091.1
55°	9671.8	9721.4	10147.6	10637.2	11150.6	11099.1	11239.8	12506.5	14643.5	14655.4	11243.8
57.5°	7507.1	7578.5	8200.9	8872.9	9953.3	10847.3	11275.5	12480.8	14609.8	14675.2	11400.4
60°	4924.1	4965.7	5703.2	6456.5	7576.5	8813.4	10092.0	12016.9	14310.4	14403.6	11360.7
62.5°	2973.5	3021.1	3613.8	4184.7	4844.8	5671.4	6845.0	9657.9	11995.1	12203.2	9098.9
65°	2075.5	2138.9	2658.3	3128.1	3356.1	3185.6	3467.1	5393.9	7473.4	7560.6	5560.4
67.5°	1504.6	1548.2	1974.4	2533.4	2785.2	2249.9	1714.7	2388.7	3255.0	3286.7	2293.6
70°	985.2	1034.8	1421.3	1928.8	2273.7	1823.7	1282.6	1292.5	1369.8	1385.6	1332.1
72.5°	541.2	570.9	878.2	1280.6	1344.0	1090.3	1001.1	1074.4	1127.9	1127.9	1141.8
75°	279.5	305.3	358.8	422.2	509.5	596.7	721.6	830.6	888.1	892.0	886.1
77.5°	142.7	152.6	192.3	208.1	228.0	265.6	344.9	442.1	493.6	513.4	509.5
80°	67.4	71.4	81.3	95.2	117.0	148.7	186.3	222.0	253.7	257.7	279.5
82.5°	35.7	39.6	43.6	51.5	63.4	79.3	109.0	130.8	150.7	154.6	172.5
85°	13.9	15.9	17.8	19.8	27.8	33.7	45.6	61.5	75.3	75.3	89.2
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	7.9	9.9	13.9	13.9	23.8
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°	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5	4317.5
2.5°	4361.1	4303.6	4277.9	4236.2	4202.5	4164.9	4135.1	4113.3	4099.5	4091.5	4083.6
5°	4432.5	4345.3	4275.9	4192.6	4135.1	4079.6	4034.0	4002.3	3986.5	3974.6	3966.6
7.5°	4543.5	4426.5	4295.7	4166.9	4065.8	3976.6	3919.1	3885.4	3863.6	3855.6	3849.7
10°	4696.1	4533.6	4317.5	4113.3	3962.7	3865.5	3825.9	3810.0	3812.0	3808.1	3806.1
12.5°	4868.6	4646.6	4311.6	4018.2	3851.7	3794.2	3796.2	3821.9	3851.7	3859.6	3861.6
15°	5054.9	4757.6	4254.1	3895.3	3764.4	3770.4	3821.9	3883.4	3938.9	3960.7	3964.7
17.5°	5257.1	4850.8	4149.0	3760.5	3693.1	3756.5	3851.7	3952.8	4034.0	4069.7	4079.6
20°	5483.1	4930.1	4000.3	3627.7	3625.7	3730.7	3869.5	4002.3	4105.4	4153.0	4160.9
22.5°	5723.0	4979.6	3818.0	3504.8	3556.3	3697.0	3855.6	3994.4	4103.4	4151.0	4160.9
25°	5964.8	4995.5	3617.8	3391.8	3484.9	3643.5	3788.2	3899.2	4002.3	4044.0	4051.9
27.5°	6190.8	4949.9	3427.5	3294.6	3419.5	3564.2	3661.4	3720.8	3792.2	3823.9	3829.9
30°	6420.8	4858.7	3266.9	3217.3	3346.2	3455.2	3498.8	3502.8	3530.5	3530.5	3534.5
32.5°	6652.7	4723.9	3126.1	3142.0	3255.0	3326.4	3332.3	3286.7	3253.0	3197.5	3195.5
35°	6920.3	4587.1	3011.2	3056.8	3147.9	3191.6	3173.7	3086.5	3005.2	2914.0	2910.1
37.5°	7168.1	4446.4	2914.0	2969.5	3027.0	3058.7	3017.1	2912.0	2844.6	2751.5	2737.6
40°	7372.3	4319.5	2820.9	2878.3	2906.1	2933.8	2866.5	2781.2	2791.1	2739.6	2737.6
42.5°	7491.2	4196.6	2733.6	2777.2	2795.1	2814.9	2755.4	2692.0	2745.5	2705.9	2707.9
45°	7578.5	4089.5	2654.3	2670.2	2713.8	2743.5	2688.0	2616.7	2628.6	2475.9	2440.2
47.5°	7677.6	4030.1	2579.0	2563.2	2640.5	2692.0	2606.8	2503.7	2432.3	2281.7	2267.8
50°	7782.6	4008.3	2499.7	2456.1	2549.3	2598.8	2499.7	2370.9	2277.7	2196.4	2188.5
52.5°	7818.3	4006.3	2400.6	2327.3	2420.4	2489.8	2406.5	2275.7	2164.7	2085.4	2081.4
55°	7959.1	4063.8	2273.7	2150.8	2238.1	2380.8	2319.3	2131.0	2041.8	2006.1	2002.2
57.5°	8123.6	4073.7	2073.5	1958.5	2079.5	2248.0	2170.7	2008.1	1911.0	1867.4	1863.4
60°	8056.2	3829.9	1859.4	1811.9	1944.7	2123.1	2051.7	1911.0	1798.0	1756.3	1752.4
62.5°	6139.3	2703.9	1702.8	1685.0	1800.0	1942.7	1928.8	1782.1	1675.1	1645.3	1641.4
65°	3693.1	1899.1	1552.2	1550.2	1631.5	1768.2	1786.1	1667.1	1554.1	1512.5	1512.5
67.5°	1825.7	1453.0	1381.7	1371.8	1423.3	1520.4	1595.8	1498.6	1403.5	1363.8	1357.9
70°	1290.5	1280.6	1256.8	1229.0	1239.0	1278.6	1310.3	1229.0	1127.9	1088.3	1080.4
72.5°	1116.1	1118.0	1102.2	1080.4	1072.4	1044.7	1016.9	957.5	896.0	854.4	858.3
75°	866.3	870.2	880.2	872.2	850.4	820.7	791.0	715.6	666.1	626.4	618.5
77.5°	505.5	525.3	557.0	549.1	553.1	511.4	499.5	426.2	380.6	352.9	346.9
80°	285.5	297.3	311.2	321.1	309.2	291.4	265.6	226.0	212.1	192.3	188.3
82.5°	172.5	184.4	190.3	198.2	194.3	170.5	150.7	124.9	113.0	103.1	101.1
85°	87.2	95.2	101.1	105.1	93.2	77.3	69.4	55.5	47.6	41.6	41.6
87.5°	21.8	23.8	27.8	23.8	21.8	9.9	7.9	2.0	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)