

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: P637562

Luminaire Tested: GWS-SA4D-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

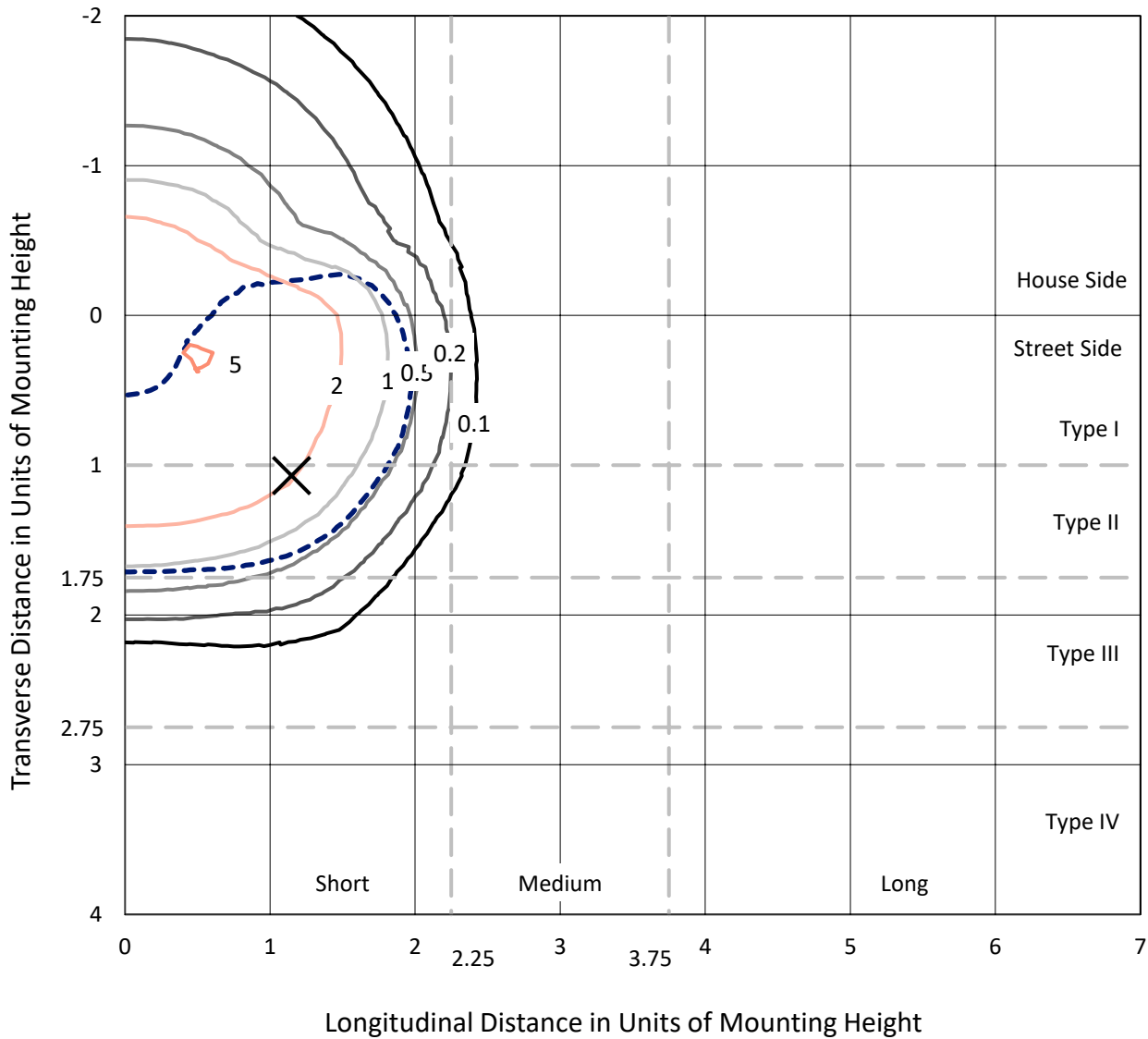
Lumens per Lamp: N/A  
Luminaire Lumens: 15396 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

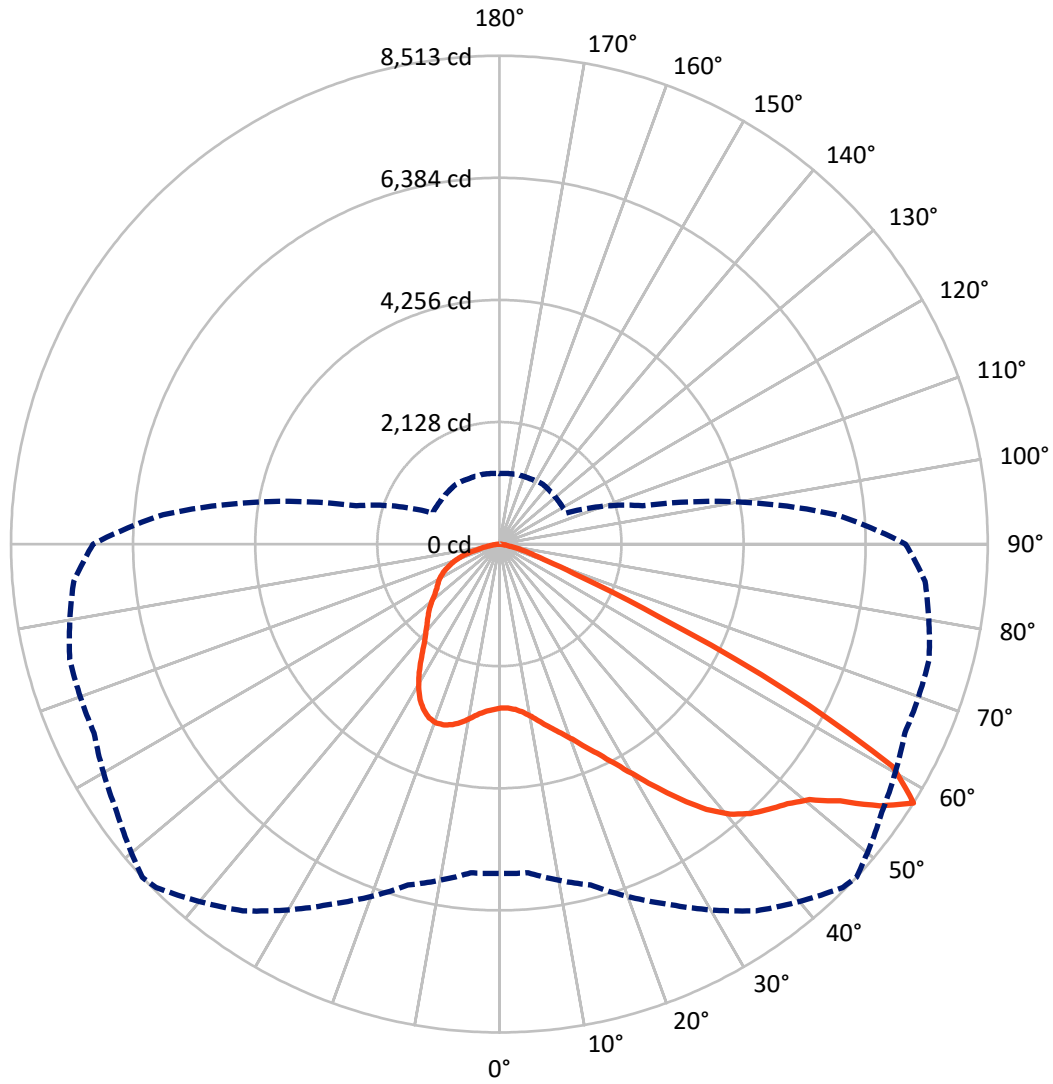
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4872.8	0.0	4872.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	10523.2	0.0	10523.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	15396.0	0.0	15396.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.6	1.8
10°-20°	926.2	6.0
20°-30°	1667.8	10.8
30°-40°	2519.0	16.4
40°-50°	3392.2	22.0
50°-60°	4076.1	26.5
60°-70°	1985.2	12.9
70°-80°	489.1	3.2
80°-90°	58.8	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°	15396.0	100.0
0°-180°	15396.0	100.0

**Coefficient of Utilization**



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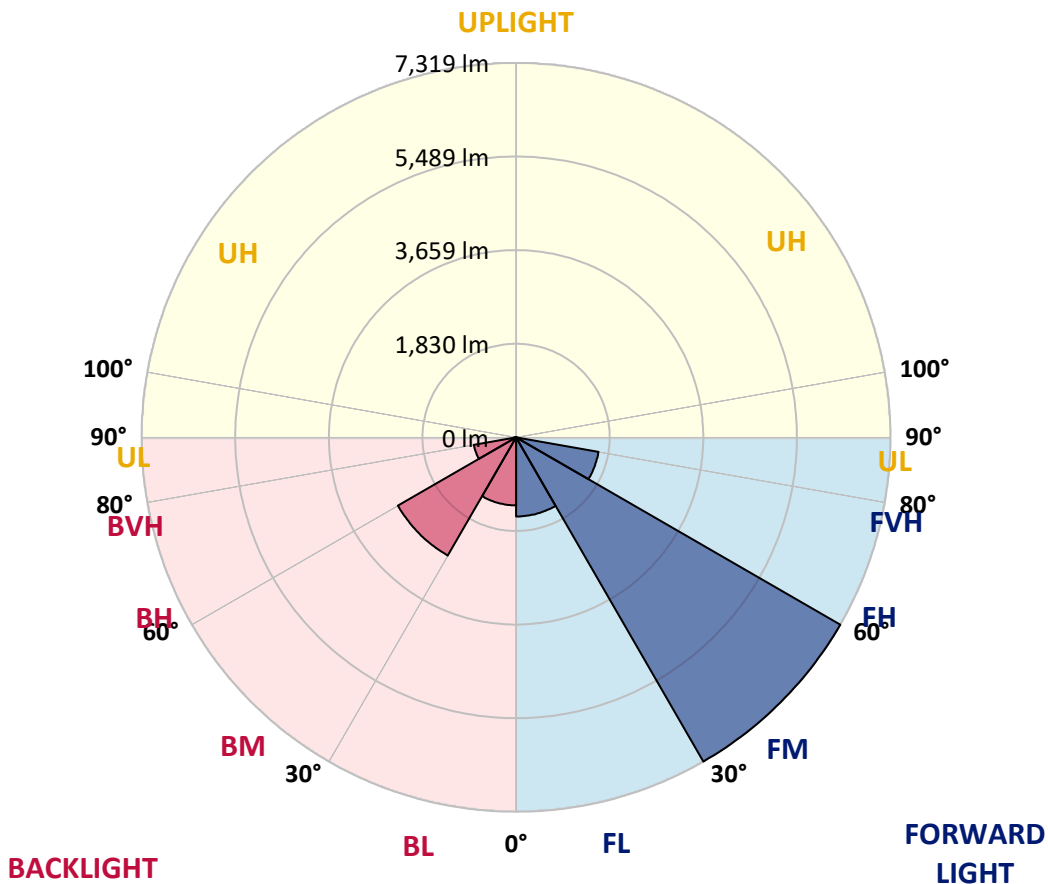
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.4	10.0			
FM (30°-60°)	7318.5	47.5			
FH (60°-80°)	1636.1	10.6			G1/1800
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1329.2	8.6	B3/2500		
BM (30°-60°)	2668.8	17.3	B3/5000		
BH (60°-80°)	838.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2850.0	2848.7	2848.7	2856.5	2856.5	2859.1	2863.0	2866.8	2868.1	2861.7	2847.5
5°	2881.1	2881.1	2881.1	2887.5	2887.5	2890.1	2895.3	2896.6	2895.3	2885.0	2870.7
7.5°	2930.2	2930.2	2931.5	2939.3	2945.7	2949.6	2958.7	2957.4	2953.5	2936.7	2918.6
10°	3010.4	3014.3	3018.1	3027.2	3040.1	3049.2	3055.6	3055.6	3050.5	3024.6	3001.3
12.5°	3124.2	3129.4	3133.2	3141.0	3151.3	3166.9	3181.1	3181.1	3174.6	3142.3	3107.4
15°	3257.4	3262.5	3261.3	3263.8	3283.2	3305.2	3316.9	3324.6	3327.2	3281.9	3227.6
17.5°	3410.0	3415.1	3410.0	3402.2	3404.8	3439.7	3460.4	3488.8	3505.7	3444.9	3358.2
20°	3548.3	3543.2	3543.2	3548.3	3556.1	3598.8	3629.8	3676.3	3697.0	3623.3	3488.8
22.5°	3694.4	3706.1	3700.9	3700.9	3731.9	3803.1	3840.6	3901.3	3923.3	3827.6	3646.6
25°	3883.2	3893.6	3891.0	3893.6	3929.8	4030.7	4068.2	4180.7	4202.6	4065.6	3821.2
27.5°	4090.1	4107.0	4114.7	4112.1	4170.3	4302.2	4348.8	4505.2	4545.3	4332.0	4007.4
30°	4359.1	4377.2	4383.7	4381.1	4449.6	4629.4	4682.4	4860.8	4917.7	4647.5	4244.0
32.5°	4670.8	4688.9	4708.3	4716.0	4803.9	4987.6	5063.9	5248.8	5330.2	5012.1	4529.8
35°	4979.8	4995.3	5032.8	5093.6	5213.9	5401.4	5468.6	5650.9	5729.8	5391.0	4875.1
37.5°	5321.2	5331.5	5363.9	5447.9	5621.2	5799.6	5866.9	6041.5	6050.5	5757.0	5265.6
40°	5694.9	5694.9	5688.4	5771.2	5952.2	6132.0	6190.2	6291.0	6238.0	6038.9	5645.8
42.5°	6011.7	6006.5	6011.7	6089.3	6223.8	6369.9	6420.3	6400.9	6333.7	6254.8	5989.7
45°	6297.5	6301.4	6347.9	6407.4	6477.2	6563.9	6593.6	6483.7	6422.9	6428.1	6265.2
47.5°	6491.5	6495.3	6604.0	6703.5	6746.2	6773.4	6760.4	6607.8	6576.8	6635.0	6477.2
50°	6517.3	6538.0	6725.5	6929.8	7035.9	7039.7	7003.5	6817.3	6808.3	6874.2	6591.0
52.5°	6522.5	6543.2	6777.2	7145.8	7421.2	7479.4	7438.0	7244.1	7149.7	7083.7	6730.7
55°	6503.1	6526.4	6785.0	7290.6	7818.2	8051.0	8054.8	7780.7	7479.4	7435.4	7129.0
57.5°	5741.5	5750.5	6151.4	6922.1	7802.7	8462.2	8512.6	8140.2	7796.2	7754.8	7448.4
60°	3999.6	4035.8	4471.6	5489.3	6554.8	7717.3	7880.3	7771.7	7541.5	7240.2	6390.6
62.5°	2003.0	2034.1	2471.2	3433.2	4520.7	5438.9	5613.4	5728.5	5782.8	5459.6	4351.4
65°	862.5	885.8	1157.3	1793.6	2559.1	3002.6	3063.4	3201.8	3540.6	3159.1	2344.4
67.5°	576.7	592.2	730.6	1094.0	1507.8	1536.2	1527.2	1556.9	1630.6	1346.1	1059.1
70°	442.2	455.2	548.3	801.7	1083.6	927.2	878.0	796.6	865.1	881.9	858.6
72.5°	320.7	331.0	400.9	547.0	678.9	592.2	584.5	625.9	719.0	744.8	730.6
75°	206.9	212.1	254.7	300.0	350.4	380.2	395.7	470.7	565.1	584.5	567.7
77.5°	138.4	142.2	166.8	192.7	199.1	200.4	205.6	239.2	303.9	340.1	336.2
80°	72.4	72.4	81.5	81.5	93.1	111.2	116.4	138.4	168.1	186.2	187.5
82.5°	28.4	29.7	34.9	38.8	46.6	56.9	60.8	72.4	87.9	100.9	112.5
85°	11.6	12.9	14.2	16.8	20.7	25.9	27.2	31.0	41.4	51.7	58.2
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	3.9	5.2	6.5	11.6	15.5
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°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2864.3	2847.5	2864.3	2869.4	2883.7	2888.8	2879.8	2878.5	2878.5	2865.6	2861.7
5°	2883.7	2868.1	2885.0	2892.7	2913.4	2926.3	2928.9	2939.3	2945.7	2940.6	2939.3
7.5°	2931.5	2912.1	2930.2	2941.8	2969.0	2989.7	2998.7	3022.0	3038.8	3036.2	3035.0
10°	3015.6	2989.7	3010.4	3029.8	3059.5	3084.1	3085.4	3098.3	3115.1	3110.0	3107.4
12.5°	3112.5	3088.0	3111.2	3130.6	3165.6	3175.9	3159.1	3153.9	3156.5	3150.0	3144.9
15°	3231.5	3196.6	3217.3	3239.3	3258.7	3247.0	3210.8	3196.6	3195.3	3186.2	3181.1
17.5°	3350.5	3306.5	3322.0	3333.7	3324.6	3288.4	3243.1	3218.6	3206.9	3188.8	3183.7
20°	3468.1	3412.5	3410.0	3400.9	3359.5	3293.6	3232.8	3183.7	3153.9	3129.4	3120.3
22.5°	3602.6	3525.0	3486.3	3444.9	3354.4	3247.0	3155.2	3085.4	3037.5	3006.5	2996.2
25°	3747.5	3637.5	3557.4	3474.6	3302.6	3147.5	3019.4	2923.7	2866.8	2833.2	2821.6
27.5°	3891.0	3739.7	3619.4	3478.5	3199.2	3003.9	2831.9	2702.6	2645.7	2618.6	2609.5
30°	4085.0	3875.5	3693.2	3428.1	3063.4	2804.8	2590.1	2459.5	2422.0	2402.6	2394.9
32.5°	4308.7	4047.5	3791.4	3322.0	2890.1	2572.0	2345.7	2255.2	2229.3	2191.8	2190.5
35°	4603.5	4293.2	3884.5	3165.6	2671.6	2322.4	2158.2	2093.6	2047.0	1987.5	1982.4
37.5°	4947.5	4599.6	3935.0	2966.4	2416.8	2116.8	2018.6	1946.1	1871.1	1792.3	1781.9
40°	5303.1	4957.8	3938.8	2731.1	2167.3	1981.1	1898.3	1803.9	1710.8	1622.9	1611.2
42.5°	5676.8	5291.4	3870.3	2459.5	1963.0	1863.4	1779.3	1660.4	1555.6	1496.1	1489.7
45°	6010.4	5560.4	3715.1	2173.7	1811.7	1765.1	1657.8	1529.8	1474.2	1431.5	1422.4
47.5°	6272.9	5738.9	3505.7	1917.7	1688.8	1664.2	1524.6	1458.6	1416.0	1377.2	1368.1
50°	6402.2	5779.0	3232.8	1709.5	1575.0	1545.3	1449.6	1399.2	1370.7	1339.7	1331.9
52.5°	6562.6	5824.2	2997.5	1534.9	1463.8	1423.7	1387.5	1347.4	1326.7	1307.3	1300.9
55°	6931.1	5994.9	2873.3	1395.3	1357.8	1339.7	1334.5	1300.9	1294.4	1281.5	1269.8
57.5°	7081.1	5885.0	2579.8	1281.5	1273.7	1276.3	1289.2	1258.2	1251.7	1236.2	1228.5
60°	5694.9	4448.3	1747.0	1183.2	1203.9	1220.7	1233.6	1202.6	1193.6	1191.0	1180.6
62.5°	3649.2	2736.2	1219.4	1091.4	1122.4	1143.1	1150.9	1121.1	1114.7	1135.4	1136.7
65°	1899.6	1491.0	989.2	993.1	1019.0	1050.0	1065.5	1055.2	1052.6	1074.6	1075.9
67.5°	969.8	911.7	862.5	876.7	897.4	937.5	973.7	1019.0	1034.5	1037.1	1038.4
70°	826.3	800.4	775.9	784.9	806.9	828.9	863.8	885.8	859.9	853.5	850.9
72.5°	703.5	684.1	672.4	682.8	694.4	690.5	680.2	690.5	694.4	695.7	697.0
75°	547.0	532.8	523.7	525.0	525.0	510.8	491.4	479.7	466.8	456.5	456.5
77.5°	334.9	337.5	346.6	345.3	344.0	338.8	319.4	309.1	278.0	269.0	269.0
80°	191.4	195.3	204.3	206.9	206.9	200.4	181.0	169.4	155.2	148.7	147.4
82.5°	116.4	121.6	126.7	129.3	130.6	122.8	106.0	97.0	89.2	82.8	82.8
85°	60.8	63.4	68.5	69.8	65.9	58.2	49.1	45.3	37.5	36.2	36.2
87.5°	16.8	18.1	20.7	16.8	15.5	11.6	6.5	5.2	2.6	1.3	1.3
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)