

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: P638053

Luminaire Tested: GWS-SA4E-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-722-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

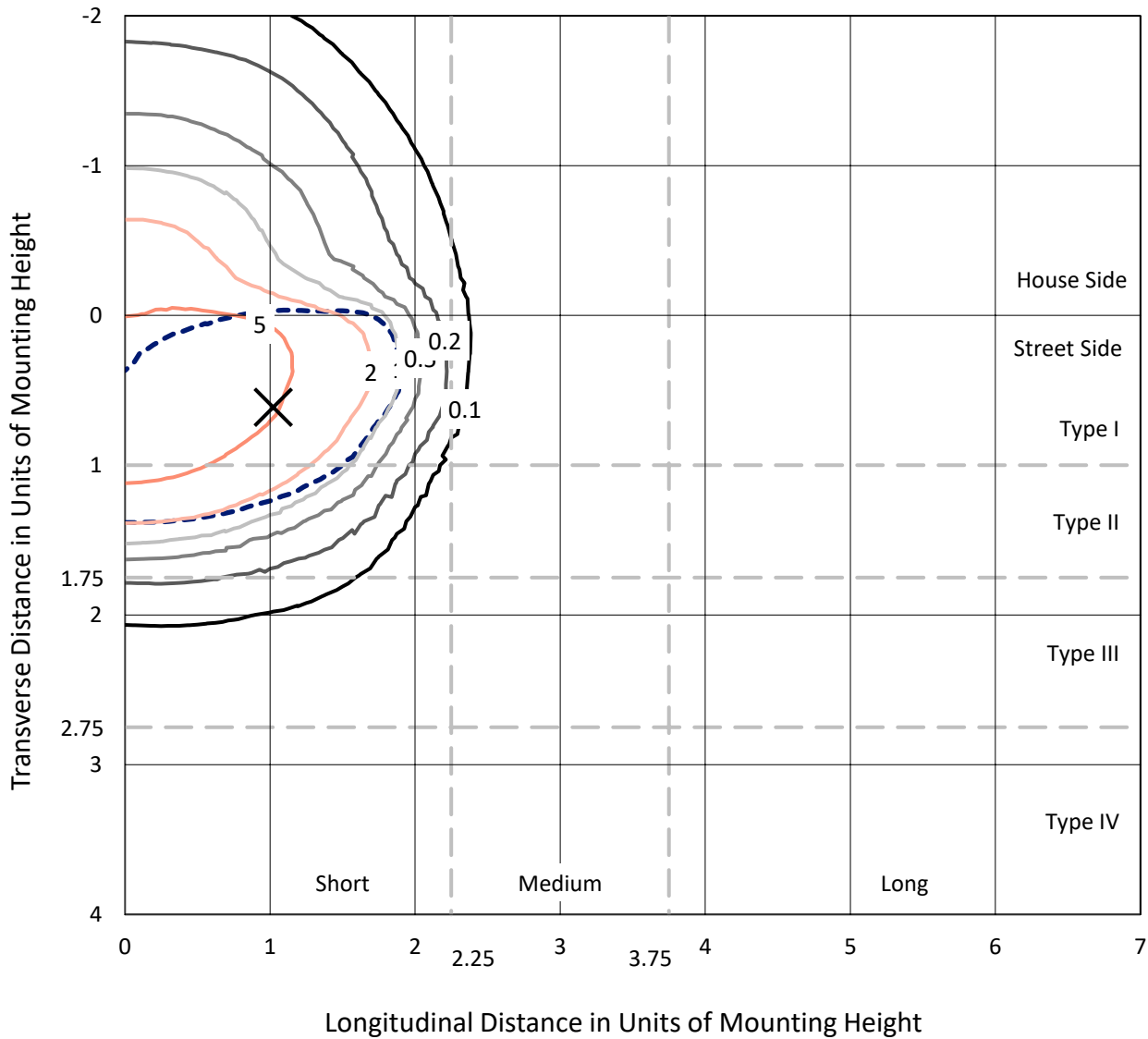
Lumens per Lamp: N/A  
Luminaire Lumens: 19839.1 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

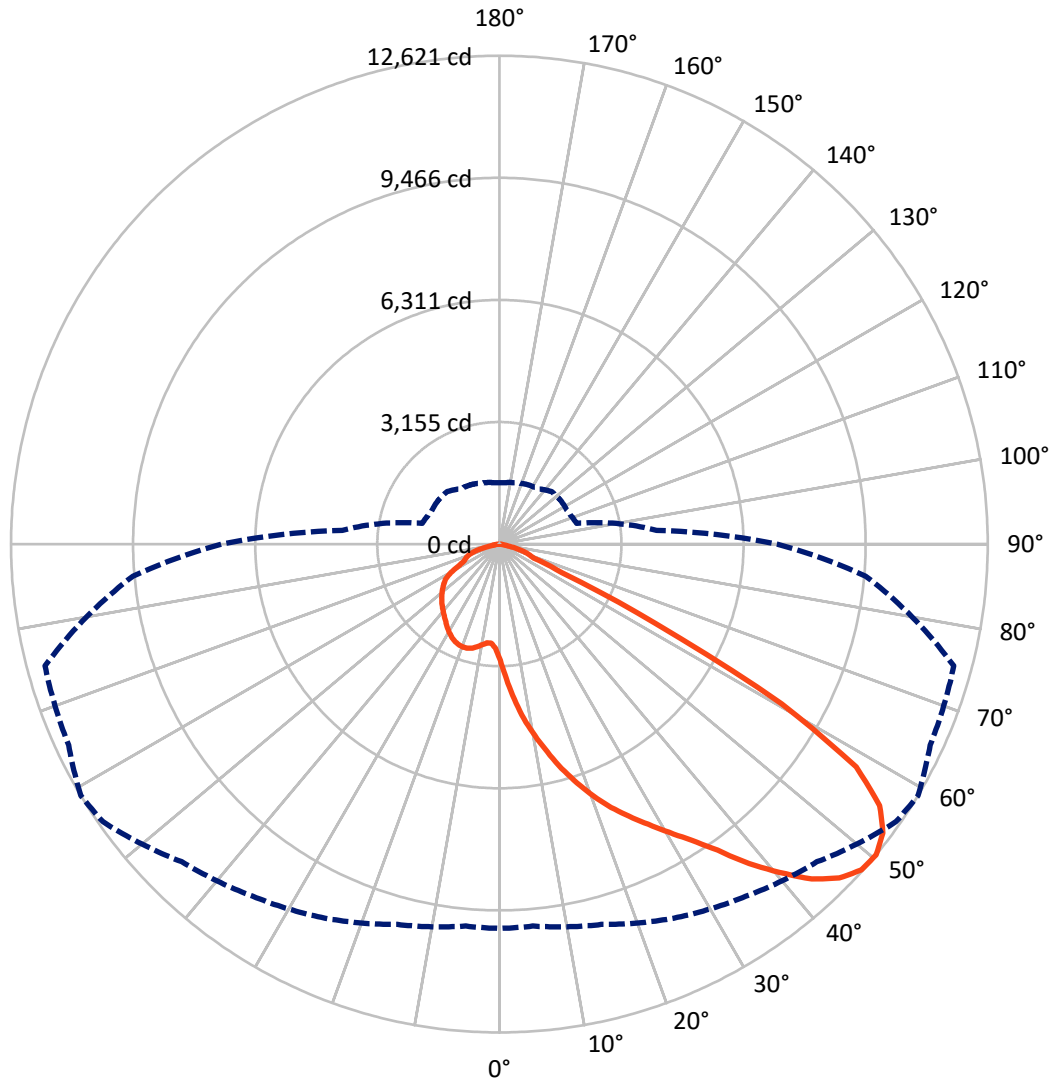
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4563.4	0.0	4563.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	15275.7	0.0	15275.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	19839.1	0.0	19839.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.2	1.7
10°-20°	1224.1	6.2
20°-30°	2317.9	11.7
30°-40°	3843.8	19.4
40°-50°	5250.9	26.5
50°-60°	4766.4	24.0
60°-70°	1587.3	8.0
70°-80°	462.9	2.3
80°-90°	48.6	0.2
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°	19839.1	100.0
0°-180°	19839.1	100.0

**Coefficient of Utilization**



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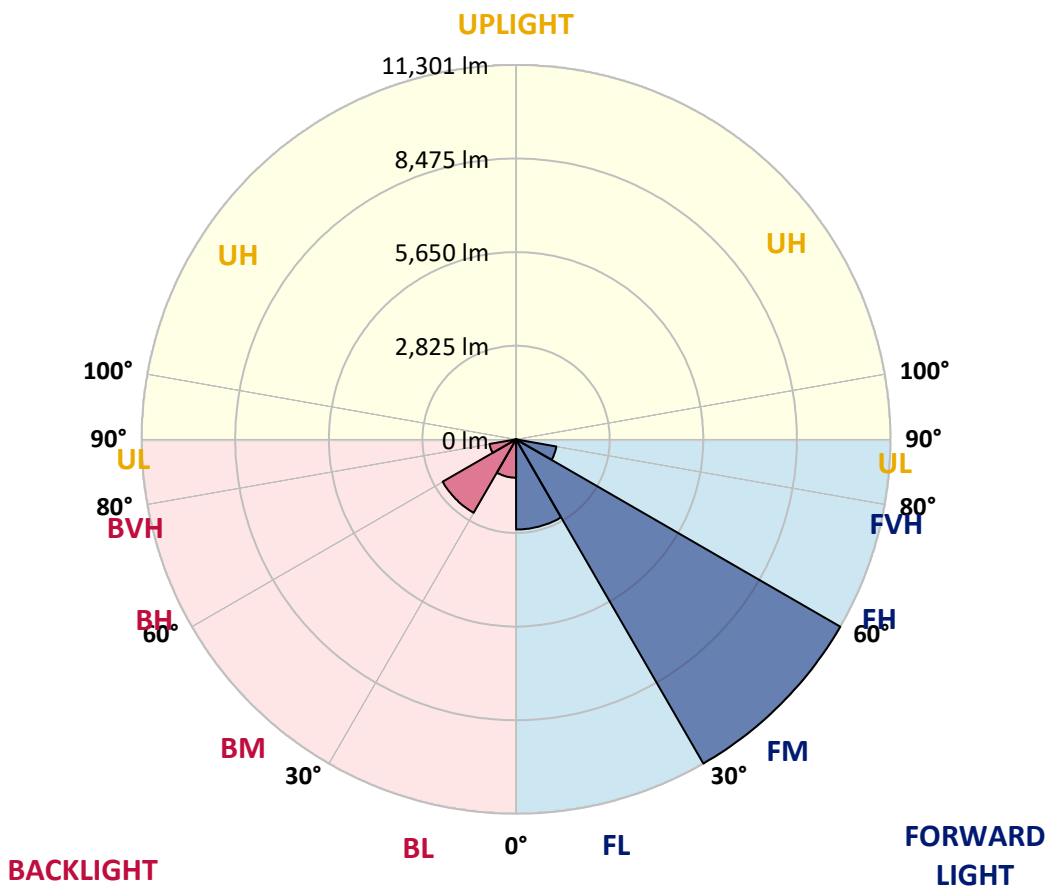
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2720.4	13.7			
FM (30°-60°)	11300.6	57.0			
FH (60°-80°)	1235.7	6.2			G1/1800
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1158.7	5.8	B3/2500		
BM (30°-60°)	2560.5	12.9	B3/5000		
BH (60°-80°)	814.5	4.1	B2/1000		G2/1000
BVH (80°-90°)	29.6	0.1			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°	55°	59°	65°	75°	85°
0°	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8
2.5°	3894.6	3923.7	3878.4	3881.6	3768.5	3716.8	3571.4	3485.7	3429.2	3270.8	3127.0
5°	4679.9	4646.0	4610.5	4589.4	4490.9	4351.9	4170.9	4027.1	3894.6	3584.3	3285.3
7.5°	5161.5	5143.7	5119.5	5106.6	5009.6	4864.2	4683.2	4560.4	4368.1	3947.9	3477.6
10°	5570.4	5549.4	5534.8	5544.5	5465.3	5371.6	5174.4	5033.8	4817.3	4332.5	3710.3
12.5°	5887.1	5898.4	5903.3	5955.0	5921.0	5864.5	5660.9	5512.2	5271.4	4738.1	3983.4
15°	6137.6	6134.3	6190.9	6289.5	6344.4	6308.9	6145.7	6021.2	5727.1	5137.3	4277.6
17.5°	6195.8	6199.0	6287.9	6460.8	6640.2	6727.4	6635.3	6486.6	6195.8	5531.6	4583.0
20°	6242.6	6249.1	6341.2	6538.3	6800.1	7044.2	7058.7	6952.0	6701.6	5958.2	4893.3
22.5°	6538.3	6552.9	6577.1	6701.6	6937.5	7246.2	7415.8	7393.2	7183.1	6405.8	5227.8
25°	7315.6	7272.0	7154.0	7118.5	7209.0	7459.5	7748.7	7792.4	7688.9	6898.7	5588.1
27.5°	8275.5	8228.7	8054.2	7869.9	7674.4	7761.7	8070.3	8201.2	8202.8	7441.7	5950.1
30°	9146.6	9109.4	8967.2	8703.8	8366.0	8240.0	8467.9	8644.0	8749.0	8068.7	6362.2
32.5°	9891.5	9857.6	9665.3	9450.4	9120.7	8867.0	8949.4	9119.1	9364.7	8879.9	6874.5
35°	10518.6	10484.6	10300.4	10083.9	9778.4	9626.5	9597.4	9713.8	10032.1	9726.7	7462.7
37.5°	11027.6	10993.7	10801.4	10597.7	10365.0	10374.7	10418.4	10474.9	10657.5	10633.3	8091.3
40°	11357.3	11321.7	11184.4	11038.9	10891.9	11008.2	11224.8	11156.9	11253.8	11365.3	8669.9
42.5°	11504.3	11459.1	11379.9	11347.6	11302.3	11483.3	11900.2	11832.4	11716.0	11853.4	9099.7
45°	11357.3	11318.5	11316.9	11415.4	11520.5	11753.2	12367.3	12312.3	12018.2	12089.3	9356.7
47.5°	10906.4	10872.5	10964.6	11223.1	11481.7	11821.1	12575.7	12585.4	12233.1	12187.9	9523.1
50°	9931.9	9909.3	10176.0	10665.6	11111.6	11609.4	12509.5	12621.0	12284.8	12157.2	9502.1
52.5°	7950.7	8055.8	8635.9	9453.6	10319.8	11237.7	12263.8	12409.3	12036.0	11955.2	9389.0
55°	5442.7	5491.2	6071.3	7265.5	8639.1	10432.9	11699.9	11924.5	11741.9	11921.2	9506.9
57.5°	2818.3	2857.1	3314.4	4374.5	5859.6	8244.8	10133.9	10870.8	11148.8	12092.5	9873.8
60°	1157.1	1189.4	1378.4	1890.7	2955.7	4801.1	7293.0	8385.4	9038.3	11043.8	8768.4
62.5°	840.3	856.5	947.0	1128.0	1548.1	2352.9	4127.3	4529.7	4988.6	6921.3	5567.1
65°	707.8	725.6	798.3	908.2	1129.6	1443.1	1763.1	1772.8	1953.7	2819.9	2063.6
67.5°	593.1	609.2	673.9	767.6	913.0	1024.5	947.0	948.6	945.4	1022.9	989.0
70°	462.2	475.1	539.7	639.9	715.9	657.7	740.1	819.3	785.4	816.1	862.9
72.5°	337.7	352.3	408.8	484.8	465.4	468.6	599.5	680.3	660.9	694.9	738.5
75°	244.0	253.7	282.8	242.4	255.3	308.7	421.8	465.4	484.8	513.9	552.7
77.5°	79.2	79.2	88.9	111.5	139.0	171.3	214.9	232.7	261.8	294.1	321.6
80°	40.4	42.0	50.1	61.4	77.6	98.6	126.0	134.1	148.7	166.4	177.8
82.5°	19.4	21.0	24.2	30.7	40.4	51.7	69.5	77.6	87.3	98.6	106.7
85°	4.8	4.8	6.5	9.7	12.9	19.4	25.9	30.7	38.8	46.9	51.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.5	8.1	9.7	12.9
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°	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8	3005.8
2.5°	3062.3	2971.8	2855.5	2756.9	2666.4	2596.9	2537.1	2508.0	2480.6	2461.2	2467.6
5°	3146.4	2991.2	2774.7	2624.4	2532.3	2485.4	2453.1	2436.9	2433.7	2420.8	2415.9
7.5°	3269.2	3047.8	2758.5	2606.6	2545.2	2521.0	2503.2	2493.5	2498.3	2485.4	2480.6
10°	3421.1	3141.5	2798.9	2664.8	2611.5	2593.7	2574.3	2561.4	2554.9	2535.5	2532.3
12.5°	3610.1	3257.9	2871.6	2739.1	2685.8	2655.1	2629.2	2606.6	2592.1	2567.8	2561.4
15°	3813.8	3387.1	2957.3	2811.8	2748.8	2703.6	2661.6	2627.6	2601.8	2569.4	2564.6
17.5°	4035.2	3522.9	3028.4	2861.9	2781.1	2721.3	2659.9	2609.8	2574.3	2532.3	2527.4
20°	4266.2	3660.2	3081.7	2886.2	2782.8	2702.0	2619.5	2553.3	2508.0	2466.0	2462.8
22.5°	4505.4	3786.3	3114.0	2879.7	2756.9	2656.7	2558.1	2483.8	2430.5	2380.4	2377.1
25°	4746.2	3907.5	3122.1	2853.9	2705.2	2588.8	2490.3	2403.0	2343.2	2286.6	2280.2
27.5°	4990.2	4009.3	3102.7	2802.1	2635.7	2509.7	2411.1	2325.4	2264.0	2207.5	2197.8
30°	5250.4	4096.6	3060.7	2734.3	2554.9	2425.6	2328.7	2264.0	2205.8	2149.3	2139.6
32.5°	5528.3	4172.5	3000.9	2651.9	2461.2	2341.6	2270.5	2212.3	2154.1	2104.0	2094.3
35°	5859.6	4222.6	2912.0	2545.2	2373.9	2280.2	2231.7	2163.8	2092.7	2037.8	2032.9
37.5°	6202.2	4261.4	2805.4	2443.4	2298.0	2244.6	2204.2	2112.1	2023.2	1957.0	1948.9
40°	6533.5	4293.7	2672.9	2348.1	2228.5	2218.8	2163.8	2049.1	1895.6	1821.2	1814.8
42.5°	6842.2	4303.4	2533.9	2246.2	2165.4	2160.6	2099.2	1921.4	1803.5	1756.6	1750.1
45°	7053.8	4295.3	2390.1	2150.9	2102.4	2076.6	2011.9	1829.3	1756.6	1714.6	1706.5
47.5°	7210.6	4253.3	2228.5	2050.7	2031.3	1995.8	1856.8	1771.1	1703.3	1661.3	1653.2
50°	7183.1	4078.8	2065.3	1953.7	1945.7	1915.0	1743.7	1698.4	1638.6	1593.4	1586.9
52.5°	7040.9	3747.5	1898.8	1847.1	1863.3	1803.5	1662.9	1611.2	1559.4	1507.7	1496.4
55°	7076.5	3508.3	1772.8	1743.7	1772.8	1637.0	1572.4	1517.4	1468.9	1418.8	1409.2
57.5°	7231.6	3272.4	1638.6	1632.2	1662.9	1509.3	1456.0	1386.5	1317.0	1276.6	1276.6
60°	6072.9	2385.2	1402.7	1418.8	1488.3	1405.9	1359.1	1288.0	1212.0	1176.4	1176.4
62.5°	3590.8	1496.4	1163.5	1145.7	1189.4	1241.1	1266.9	1208.8	1118.3	1071.4	1073.0
65°	1582.1	1089.2	1026.2	1011.6	998.7	1034.2	1105.3	1110.2	1014.8	959.9	961.5
67.5°	974.4	985.8	959.9	948.6	937.3	930.8	924.4	927.6	901.7	851.6	850.0
70°	879.1	909.8	892.0	882.3	867.8	856.5	817.7	754.7	711.0	698.1	712.7
72.5°	756.3	798.3	788.6	783.8	766.0	738.5	686.8	625.4	573.7	541.4	547.8
75°	570.4	604.4	609.2	610.8	591.5	565.6	512.3	460.6	415.3	381.4	389.5
77.5°	328.0	347.4	352.3	357.1	342.6	332.9	297.3	260.2	235.9	200.4	210.1
80°	182.6	190.7	190.7	192.3	184.2	172.9	148.7	127.7	116.4	100.2	101.8
82.5°	109.9	113.1	114.7	116.4	111.5	100.2	82.4	67.9	61.4	53.3	51.7
85°	53.3	56.6	56.6	58.2	50.1	43.6	33.9	25.9	22.6	16.2	17.8
87.5°	12.9	14.5	14.5	12.9	11.3	8.1	4.8	1.6	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)