

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: P637037

Luminaire Tested: GWS-SA4C-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 12604.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

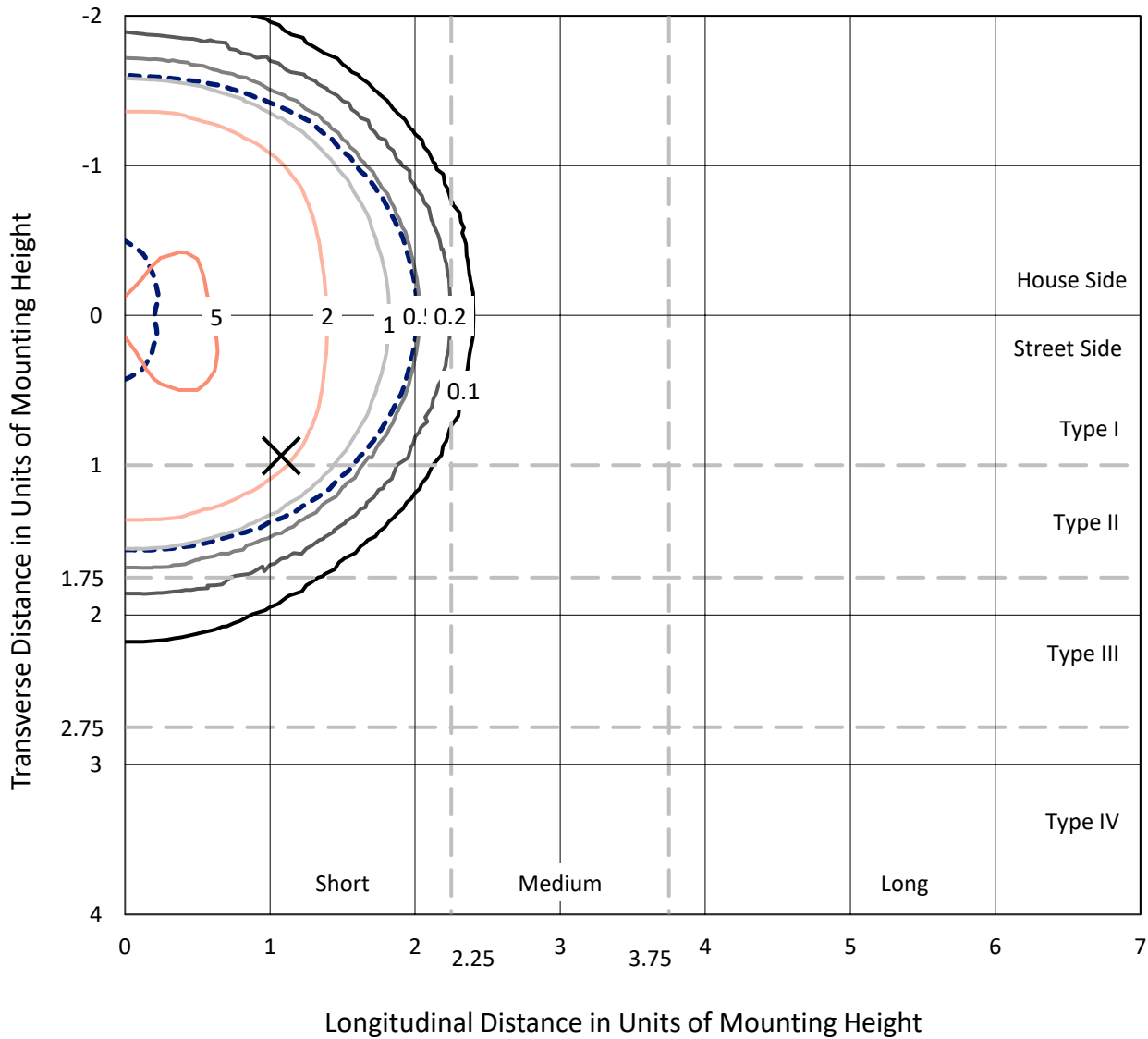
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

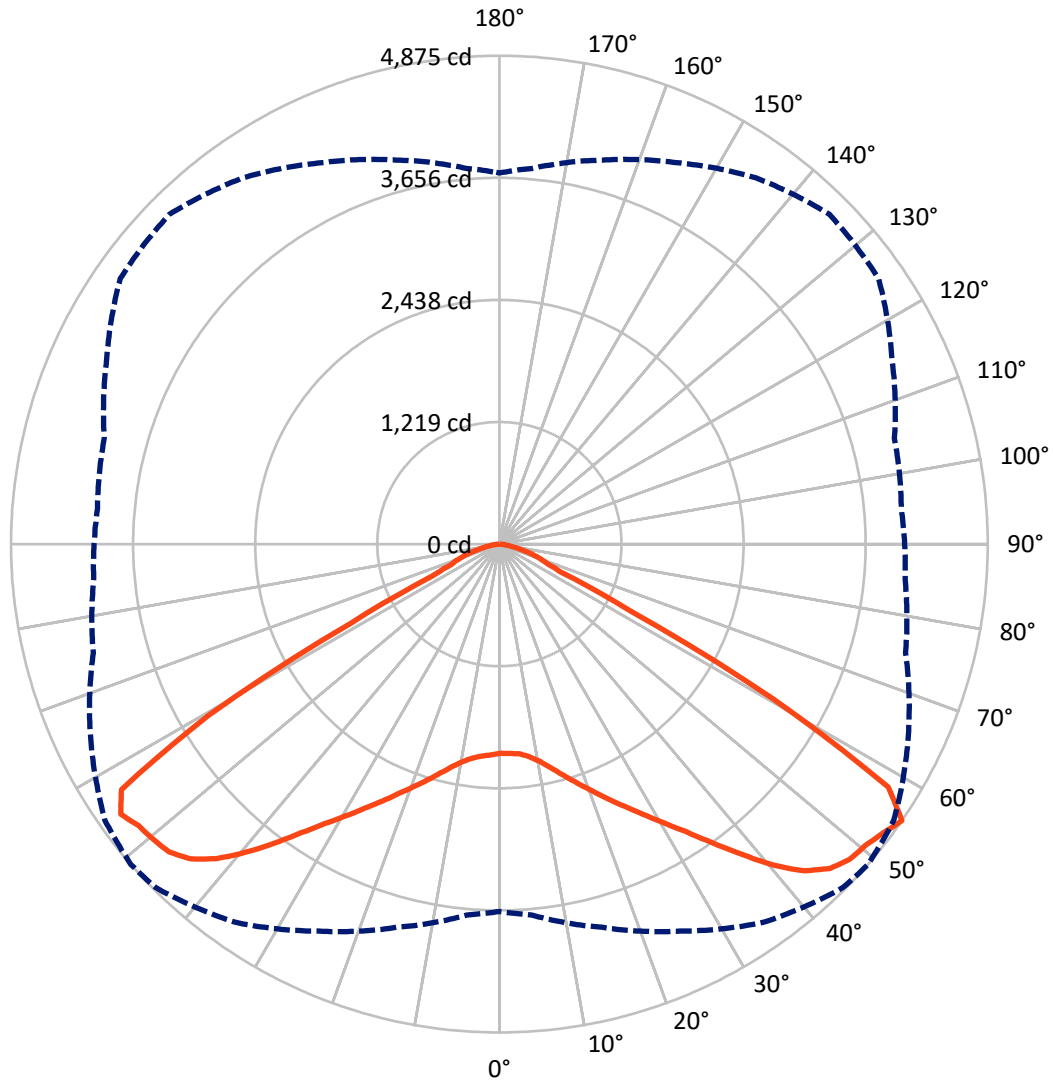
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6240.5	0.0	6240.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6364.2	0.0	6364.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	12604.7	0.0	12604.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	1.6
10°-20°	671.9	5.3
20°-30°	1279.7	10.2
30°-40°	2169.3	17.2
40°-50°	3264.7	25.9
50°-60°	3573.6	28.4
60°-70°	1130.0	9.0
70°-80°	271.2	2.2
80°-90°	40.7	0.3
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°	12604.7	100.0
0°-180°	12604.7	100.0

Coefficient of Utilization



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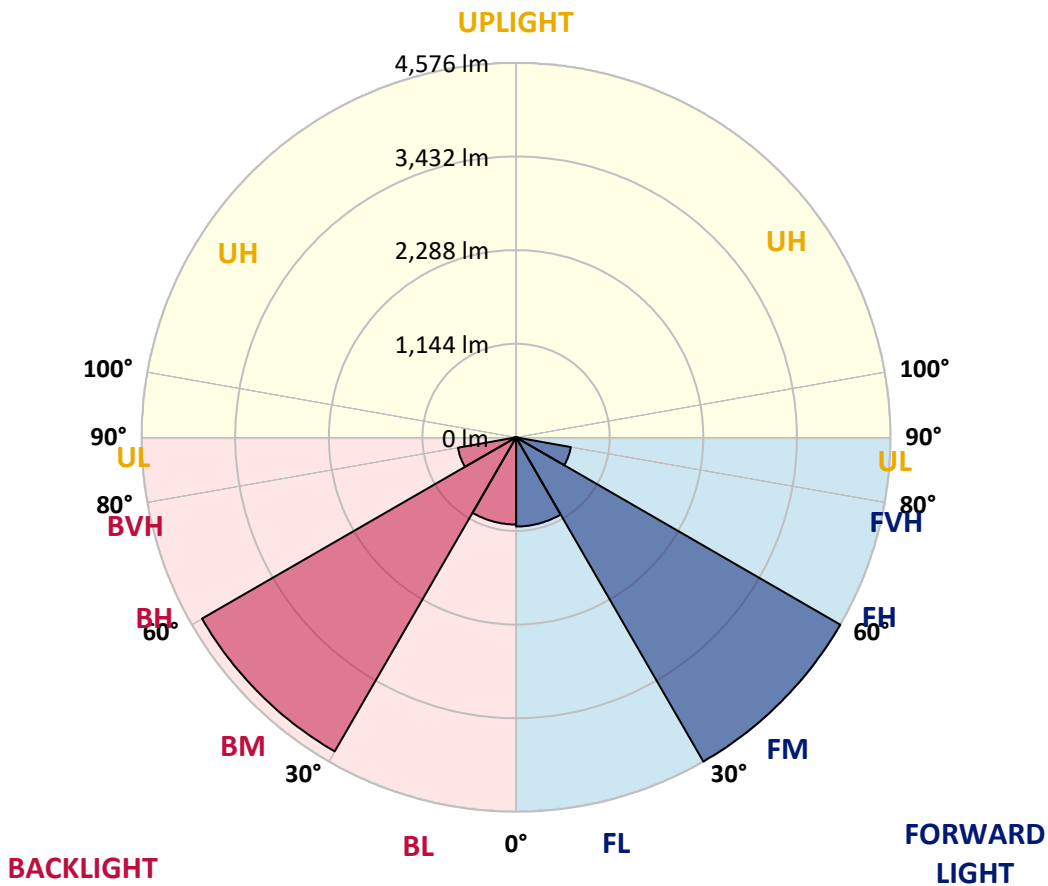
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.8	8.6			
FM (30°-60°)	4575.9	36.3			
FH (60°-80°)	679.7	5.4			G1/1800
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1065.4	8.5	B3/2500		
BM (30°-60°)	4431.7	35.2	B3/5000		
BH (60°-80°)	721.5	5.7	B2/1000		G1/1800
BVH (80°-90°)	21.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0
2.5°	2057.3	2059.3	2063.4	2070.6	2077.8	2088.0	2092.1	2097.3	2096.2	2102.4	2102.4
5°	2047.0	2050.1	2056.3	2066.5	2078.8	2098.3	2103.4	2115.7	2128.0	2143.4	2148.5
7.5°	2059.3	2063.4	2070.6	2087.0	2105.5	2131.1	2141.3	2161.8	2185.4	2213.1	2224.4
10°	2082.9	2088.0	2100.3	2127.0	2156.7	2195.7	2204.9	2230.5	2268.5	2306.4	2328.9
12.5°	2109.6	2117.8	2140.3	2182.4	2226.4	2277.7	2292.0	2323.8	2364.8	2414.0	2444.8
15°	2140.3	2147.5	2182.4	2241.8	2310.5	2378.1	2394.5	2425.3	2471.4	2519.6	2562.6
17.5°	2204.9	2217.2	2258.2	2326.9	2406.8	2486.8	2505.2	2540.1	2577.0	2614.9	2655.9
20°	2293.1	2303.3	2355.6	2440.7	2535.0	2607.7	2626.2	2657.0	2674.4	2693.9	2728.7
22.5°	2381.2	2395.6	2455.0	2555.5	2666.2	2745.1	2759.5	2788.2	2775.9	2769.7	2792.3
25°	2490.9	2510.4	2568.8	2678.5	2791.2	2888.6	2899.9	2924.5	2904.0	2872.2	2871.2
27.5°	2627.2	2644.7	2705.1	2817.9	2929.6	3031.1	3052.6	3085.4	3040.3	3001.4	2973.7
30°	2789.2	2800.5	2867.1	2987.0	3101.8	3198.2	3225.9	3258.7	3224.8	3160.3	3132.6
32.5°	2977.8	2993.2	3070.1	3196.1	3298.6	3395.0	3422.7	3463.7	3426.8	3354.0	3319.1
35°	3204.3	3219.7	3300.7	3438.0	3542.6	3642.0	3661.5	3695.3	3649.2	3565.2	3537.5
37.5°	3450.3	3469.8	3572.3	3702.5	3812.2	3928.0	3929.1	3939.3	3873.7	3769.1	3738.4
40°	3727.1	3752.7	3855.2	3990.6	4122.8	4217.1	4216.1	4187.4	4076.7	3914.7	3867.5
42.5°	4000.8	4021.3	4124.8	4264.2	4396.5	4485.7	4459.0	4389.3	4229.4	4009.0	3946.5
45°	4198.6	4214.0	4322.7	4479.5	4613.8	4669.1	4621.0	4536.9	4320.6	4068.5	3976.2
47.5°	4291.9	4312.4	4422.1	4577.9	4729.6	4761.4	4704.0	4625.1	4373.9	4123.8	3999.8
50°	4241.7	4268.3	4392.4	4536.9	4708.1	4773.7	4732.7	4653.8	4430.3	4178.1	4041.8
52.5°	4111.5	4137.1	4294.0	4469.3	4663.0	4793.2	4792.2	4727.6	4494.9	4193.5	4043.9
55°	3666.6	3716.9	3960.8	4263.2	4607.6	4850.6	4875.2	4806.5	4505.1	4197.6	4065.4
57.5°	2386.3	2474.5	2706.2	3099.8	3790.7	4411.9	4577.9	4594.3	4431.3	4180.2	4069.5
60°	996.4	1067.1	1250.6	1512.0	2082.9	2822.0	3143.9	3466.7	3856.3	3997.7	4031.6
62.5°	619.1	625.3	643.7	703.2	893.9	1254.7	1461.7	1764.1	2343.3	2836.3	3063.9
65°	558.7	561.7	565.8	561.7	571.0	615.0	670.4	776.0	1011.7	1256.7	1547.8
67.5°	492.0	496.1	499.2	496.1	499.2	501.3	507.4	516.6	559.7	594.5	621.2
70°	397.7	403.9	409.0	406.9	419.2	419.2	425.4	432.6	454.1	479.7	498.2
72.5°	303.4	298.3	304.4	306.5	317.8	323.9	333.1	341.3	365.9	381.3	404.9
75°	196.8	191.7	200.9	206.0	221.4	229.6	237.8	246.0	263.4	273.7	296.2
77.5°	106.6	105.6	114.8	122.0	138.4	148.6	154.8	160.9	175.3	178.4	192.7
80°	61.5	61.5	67.7	72.8	83.0	94.3	100.5	105.6	115.8	118.9	125.1
82.5°	33.8	33.8	36.9	40.0	48.2	54.3	59.5	63.6	72.8	75.9	78.9
85°	16.4	15.4	17.4	19.5	22.6	25.6	28.7	30.8	37.9	40.0	44.1
87.5°	2.1	2.1	2.1	3.1	4.1	6.2	7.2	7.2	11.3	13.3	15.4
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°	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0	2088.0
2.5°	2108.5	2095.2	2103.4	2106.5	2106.5	2103.4	2090.1	2086.0	2079.8	2070.6	2070.6
5°	2155.7	2145.4	2147.5	2142.4	2130.1	2114.7	2090.1	2077.8	2067.5	2056.3	2055.2
7.5°	2236.7	2223.4	2221.3	2201.8	2169.0	2136.2	2099.3	2076.8	2061.4	2047.0	2046.0
10°	2342.3	2330.0	2314.6	2275.6	2227.5	2179.3	2129.0	2098.3	2075.7	2055.2	2054.2
12.5°	2460.1	2445.8	2417.1	2359.7	2299.2	2252.1	2194.7	2147.5	2113.7	2086.0	2080.9
15°	2588.3	2567.8	2518.6	2450.9	2391.5	2341.2	2279.7	2212.1	2160.8	2116.7	2111.6
17.5°	2686.7	2660.0	2606.7	2543.2	2494.0	2443.7	2363.8	2278.7	2204.9	2149.5	2141.3
20°	2754.3	2732.8	2672.3	2625.2	2596.5	2552.4	2459.1	2362.8	2279.7	2210.0	2205.9
22.5°	2816.9	2791.2	2731.8	2704.1	2704.1	2674.4	2585.2	2471.4	2374.0	2293.1	2282.8
25°	2887.6	2859.9	2814.8	2811.7	2826.1	2812.8	2705.1	2583.1	2469.4	2378.1	2361.7
27.5°	2986.0	2955.2	2928.6	2947.0	2967.5	2953.2	2833.3	2691.8	2571.9	2479.6	2465.3
30°	3142.8	3104.9	3080.3	3102.9	3142.8	3100.8	2970.6	2821.0	2700.0	2598.5	2591.3
32.5°	3325.3	3282.2	3256.6	3292.5	3328.4	3262.8	3133.6	2990.1	2863.0	2756.4	2744.1
35°	3544.7	3490.3	3452.4	3500.6	3537.5	3472.9	3344.8	3208.4	3067.0	2956.3	2939.9
37.5°	3739.4	3673.8	3648.2	3715.8	3765.0	3723.0	3583.6	3455.5	3300.7	3179.7	3172.6
40°	3880.9	3816.3	3797.8	3909.6	3995.7	3985.4	3860.4	3713.8	3568.2	3428.8	3415.5
42.5°	3942.4	3897.3	3901.4	4052.1	4185.3	4250.9	4139.2	3982.4	3841.9	3697.4	3688.2
45°	3955.7	3928.0	3960.8	4149.4	4324.7	4459.0	4363.7	4232.5	4073.6	3934.2	3930.1
47.5°	3970.1	3954.7	4004.9	4204.8	4412.9	4568.7	4515.4	4380.1	4219.1	4082.8	4072.6
50°	4003.9	3997.7	4054.1	4243.7	4454.9	4598.4	4537.9	4403.7	4238.6	4104.3	4079.7
52.5°	4014.1	4003.9	4084.9	4304.2	4524.6	4597.4	4467.2	4291.9	4125.9	3976.2	3950.6
55°	4045.9	4027.5	4082.8	4326.8	4621.0	4656.8	4463.1	4200.7	3969.0	3765.0	3704.6
57.5°	4054.1	4033.6	4069.5	4289.9	4516.4	4484.6	3922.9	3389.9	2953.2	2726.7	2752.3
60°	4010.0	4016.2	3954.7	3930.1	3622.6	3198.2	2401.7	1919.9	1507.9	1333.6	1371.5
62.5°	3052.6	3078.3	2868.1	2494.0	1917.9	1520.2	1005.6	781.1	661.2	630.4	635.5
65°	1540.7	1575.5	1357.2	1122.4	834.4	674.5	583.3	564.8	558.7	551.5	551.5
67.5°	609.9	620.2	612.0	573.0	533.0	518.7	514.6	512.5	505.4	501.3	502.3
70°	490.0	498.2	485.9	461.3	444.9	443.9	441.8	437.7	432.6	432.6	435.7
72.5°	399.8	408.0	390.5	375.2	362.9	353.6	348.5	345.4	338.3	338.3	341.3
75°	294.2	299.3	285.0	282.9	269.6	260.4	252.2	248.1	238.8	234.7	237.8
77.5°	195.8	194.8	187.6	187.6	182.5	171.2	162.0	152.7	140.4	132.2	134.3
80°	127.1	127.1	124.0	124.0	118.9	109.7	98.4	89.2	82.0	75.9	75.9
82.5°	81.0	80.0	78.9	77.9	75.9	66.6	58.4	52.3	47.2	43.1	44.1
85°	45.1	45.1	43.1	43.1	39.0	33.8	29.7	25.6	22.6	21.5	21.5
87.5°	15.4	15.4	14.4	14.4	12.3	9.2	7.2	6.2	5.1	4.1	5.1
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)