

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: P636872

Luminaire Tested: GWS-SA4B-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636872
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-SA4B-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12873.1 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

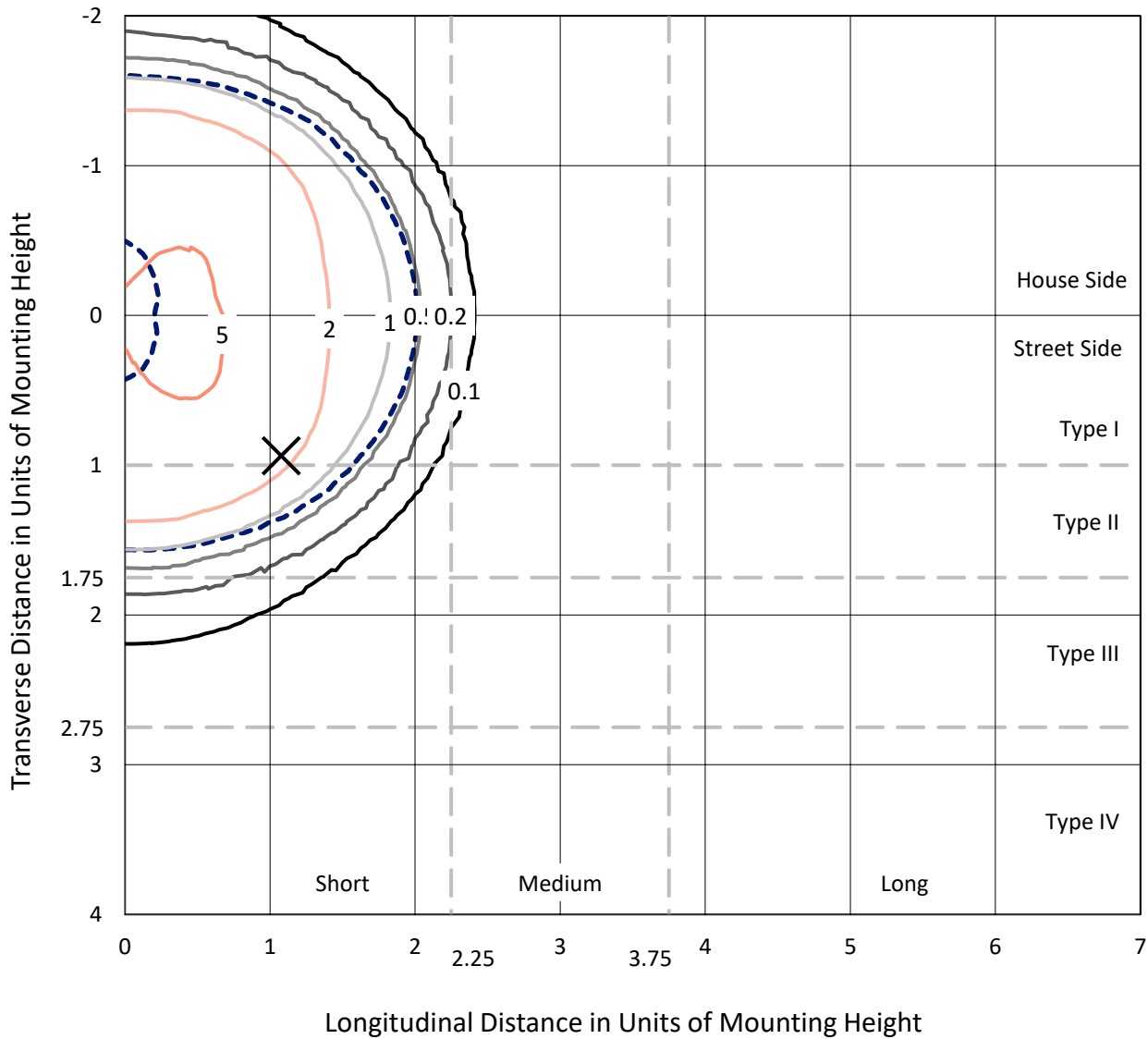
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

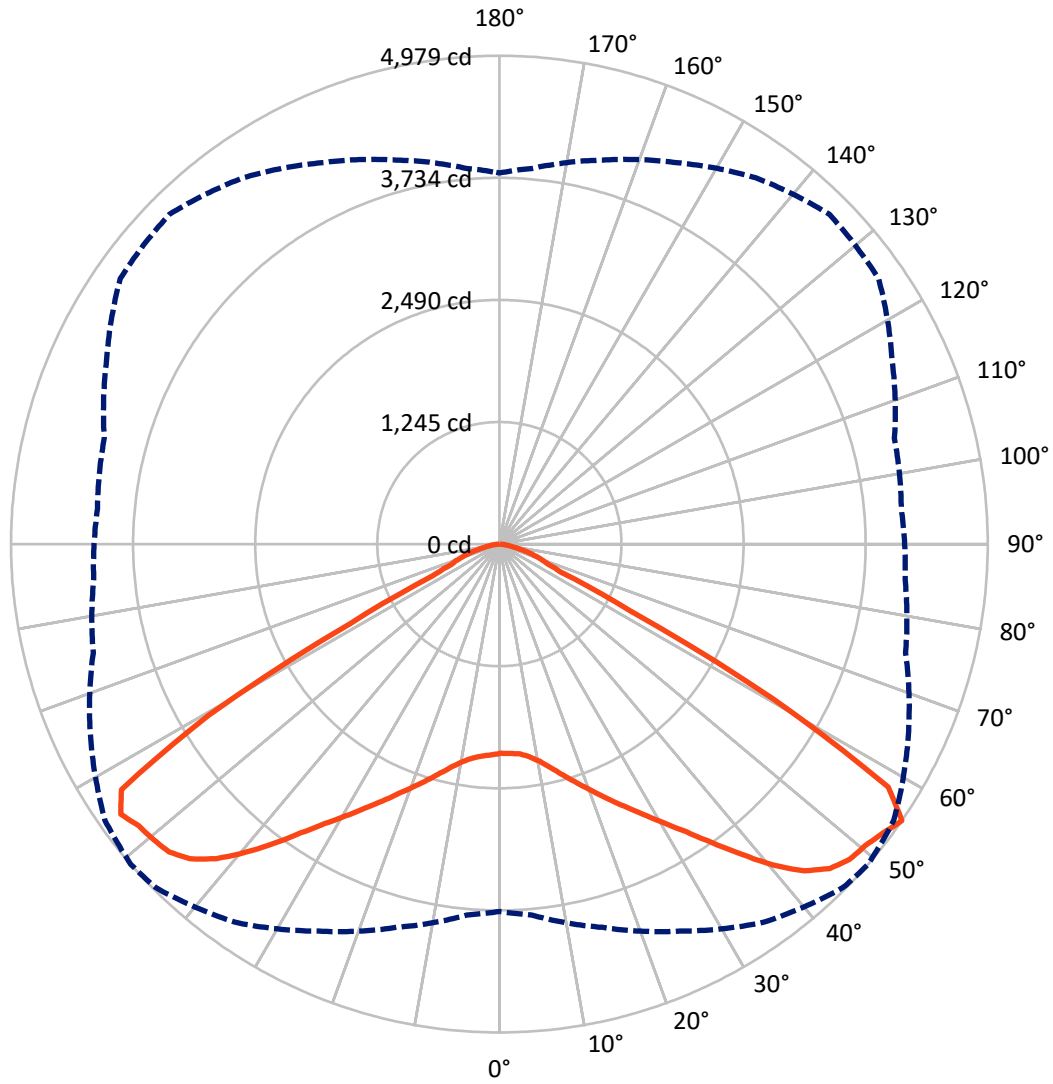
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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	6373.4	0.0	6373.4
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6499.7	0.0	6499.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	12873.1	0.0	12873.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.6
10°-20°	686.2	5.3
20°-30°	1306.9	10.2
30°-40°	2215.5	17.2
40°-50°	3334.2	25.9
50°-60°	3649.6	28.4
60°-70°	1154.0	9.0
70°-80°	277.0	2.2
80°-90°	41.6	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°	12873.1	100.0
0°-180°	12873.1	100.0

Coefficient of Utilization



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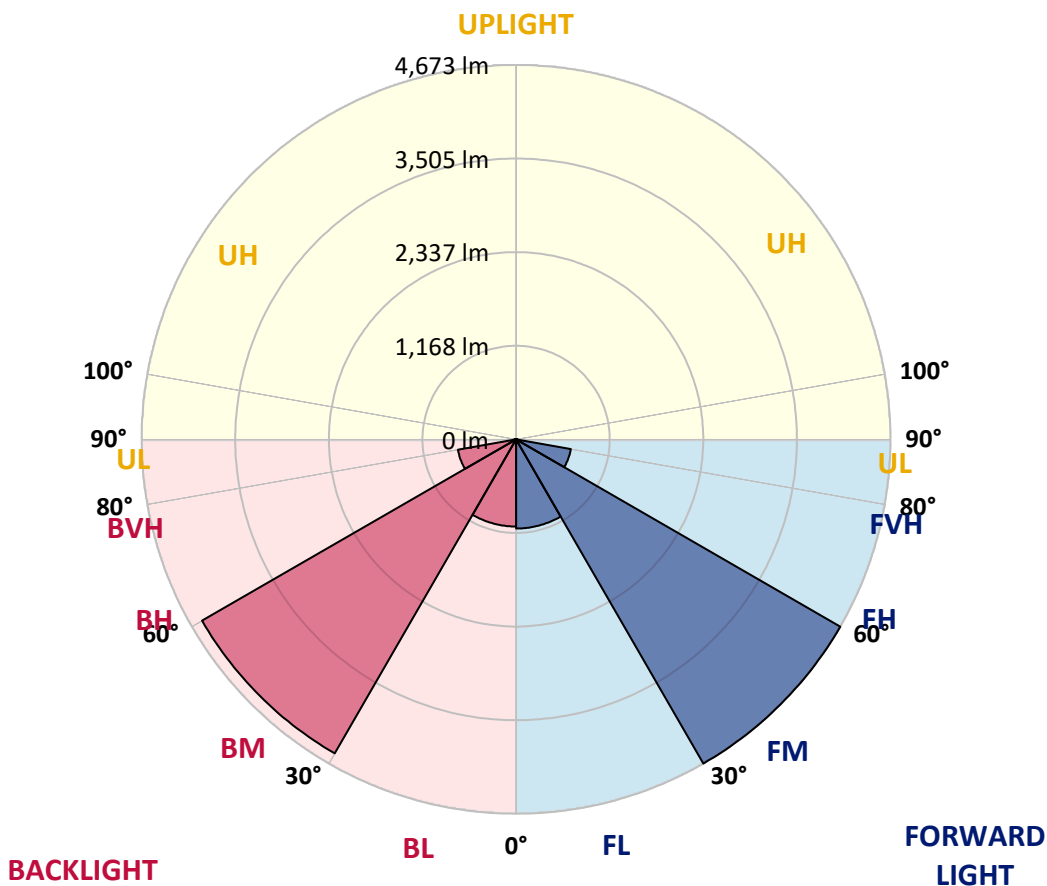
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.0	8.6			
FM (30°-60°)	4673.3	36.3			
FH (60°-80°)	694.2	5.4			G1/1800
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1088.1	8.5	B3/2500		
BM (30°-60°)	4526.1	35.2	B3/5000		
BH (60°-80°)	736.8	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.3	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°	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5
2.5°	2101.1	2103.2	2107.4	2114.7	2122.0	2132.5	2136.7	2141.9	2140.9	2147.2	2147.2
5°	2090.6	2093.8	2100.1	2110.5	2123.1	2143.0	2148.2	2160.8	2173.3	2189.0	2194.3
7.5°	2103.2	2107.4	2114.7	2131.5	2150.3	2176.5	2186.9	2207.9	2232.0	2260.2	2271.7
10°	2127.3	2132.5	2145.1	2172.3	2202.6	2242.4	2251.9	2278.0	2316.8	2355.5	2378.5
12.5°	2154.5	2162.9	2185.9	2228.8	2273.8	2326.2	2340.8	2373.3	2415.2	2465.4	2496.8
15°	2185.9	2193.2	2228.8	2289.5	2359.7	2428.8	2445.5	2476.9	2524.0	2573.2	2617.2
17.5°	2251.9	2264.4	2306.3	2376.4	2458.1	2539.7	2558.6	2594.2	2631.9	2670.6	2712.5
20°	2341.9	2352.4	2405.7	2492.6	2588.9	2663.3	2682.1	2713.5	2731.3	2751.2	2786.8
22.5°	2431.9	2446.6	2507.3	2609.9	2723.0	2803.6	2818.2	2847.5	2835.0	2828.7	2851.7
25°	2543.9	2563.8	2623.5	2735.5	2850.7	2950.1	2961.6	2986.8	2965.8	2933.4	2932.3
27.5°	2683.2	2701.0	2762.7	2877.9	2992.0	3095.6	3117.6	3151.1	3105.1	3065.3	3037.0
30°	2848.6	2860.1	2928.1	3050.6	3167.9	3266.3	3294.6	3328.1	3293.5	3227.6	3199.3
32.5°	3041.2	3056.9	3135.4	3264.2	3368.9	3467.3	3495.6	3537.4	3499.7	3425.4	3389.8
35°	3272.6	3288.3	3371.0	3511.3	3618.0	3719.6	3739.5	3774.0	3726.9	3641.1	3612.8
37.5°	3523.8	3543.7	3648.4	3781.4	3893.4	4011.7	4012.7	4023.2	3956.2	3849.4	3818.0
40°	3806.5	3832.7	3937.3	4075.5	4210.6	4306.9	4305.8	4276.5	4163.5	3998.1	3949.9
42.5°	4086.0	4106.9	4212.7	4355.0	4490.1	4581.2	4554.0	4482.8	4319.5	4094.4	4030.5
45°	4288.0	4303.7	4414.7	4574.9	4712.0	4768.6	4719.4	4633.5	4412.6	4155.1	4060.9
47.5°	4383.3	4404.3	4516.3	4675.4	4830.3	4862.8	4804.2	4723.6	4467.1	4211.6	4084.9
50°	4332.0	4359.2	4485.9	4633.5	4808.3	4875.3	4833.5	4752.9	4524.6	4267.1	4127.9
52.5°	4199.1	4225.2	4385.4	4564.4	4762.3	4895.2	4894.2	4828.2	4590.6	4282.8	4130.0
55°	3744.7	3796.0	4045.2	4354.0	4705.8	4953.9	4979.0	4908.8	4601.1	4287.0	4152.0
57.5°	2437.2	2527.2	2763.8	3165.8	3871.4	4505.8	4675.4	4692.1	4525.7	4269.2	4156.1
60°	1017.6	1089.8	1277.2	1544.2	2127.3	2882.1	3210.8	3540.6	3938.4	4082.9	4117.4
62.5°	632.3	638.6	657.4	718.2	912.9	1281.4	1492.9	1801.7	2393.2	2896.7	3129.1
65°	570.6	573.7	577.9	573.7	583.1	628.1	684.7	792.5	1033.3	1283.5	1580.8
67.5°	502.5	506.7	509.8	506.7	509.8	511.9	518.2	527.6	571.6	607.2	634.4
70°	406.2	412.5	417.7	415.6	428.2	428.2	434.5	441.8	463.8	489.9	508.8
72.5°	309.9	304.6	310.9	313.0	324.5	330.8	340.2	348.6	373.7	389.4	413.5
75°	201.0	195.8	205.2	210.4	226.1	234.5	242.9	251.3	269.0	279.5	302.6
77.5°	108.9	107.8	117.3	124.6	141.3	151.8	158.1	164.4	179.0	182.2	196.8
80°	62.8	62.8	69.1	74.3	84.8	96.3	102.6	107.8	118.3	121.4	127.7
82.5°	34.5	34.5	37.7	40.8	49.2	55.5	60.7	64.9	74.3	77.5	80.6
85°	16.8	15.7	17.8	19.9	23.0	26.2	29.3	31.4	38.7	40.8	45.0
87.5°	2.1	2.1	2.1	3.1	4.2	6.3	7.3	7.3	11.5	13.6	15.7
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°	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5	2132.5
2.5°	2153.4	2139.8	2148.2	2151.4	2151.4	2148.2	2134.6	2130.4	2124.1	2114.7	2114.7
5°	2201.6	2191.1	2193.2	2188.0	2175.4	2159.7	2134.6	2122.0	2111.6	2100.1	2099.0
7.5°	2284.3	2270.7	2268.6	2248.7	2215.2	2181.7	2144.0	2121.0	2105.3	2090.6	2089.6
10°	2392.1	2379.6	2363.9	2324.1	2274.9	2225.7	2174.4	2143.0	2119.9	2099.0	2098.0
12.5°	2512.5	2497.9	2468.6	2409.9	2348.2	2300.0	2241.4	2193.2	2158.7	2130.4	2125.2
15°	2643.4	2622.4	2572.2	2503.1	2442.4	2391.1	2328.3	2259.2	2206.8	2161.8	2156.6
17.5°	2743.9	2716.7	2662.2	2597.3	2547.1	2495.8	2414.1	2327.2	2251.9	2195.3	2186.9
20°	2813.0	2791.0	2729.2	2681.1	2651.8	2606.7	2511.5	2413.1	2328.3	2257.1	2252.9
22.5°	2876.8	2850.7	2790.0	2761.7	2761.7	2731.3	2640.2	2524.0	2424.6	2341.9	2331.4
25°	2949.1	2920.8	2874.7	2871.6	2886.3	2872.7	2762.7	2638.2	2521.9	2428.8	2412.0
27.5°	3049.6	3018.2	2991.0	3009.8	3030.7	3016.1	2893.6	2749.1	2626.6	2532.4	2517.8
30°	3209.8	3171.0	3145.9	3168.9	3209.8	3166.8	3033.9	2881.0	2757.5	2653.9	2646.5
32.5°	3396.1	3352.1	3326.0	3362.6	3399.2	3332.2	3200.3	3053.8	2924.0	2815.1	2802.5
35°	3620.1	3564.6	3525.9	3575.1	3612.8	3546.9	3416.0	3276.8	3132.3	3019.2	3002.5
37.5°	3819.0	3752.0	3725.9	3795.0	3845.2	3802.3	3659.9	3529.1	3371.0	3247.4	3240.1
40°	3963.5	3897.6	3878.7	3992.8	4080.8	4070.3	3942.6	3792.9	3644.2	3501.8	3488.2
42.5°	4026.3	3980.3	3984.4	4138.3	4274.4	4341.4	4227.3	4067.2	3923.7	3776.1	3766.7
45°	4039.9	4011.7	4045.2	4237.8	4416.8	4554.0	4456.6	4322.6	4160.3	4017.9	4013.8
47.5°	4054.6	4038.9	4090.2	4294.3	4506.8	4666.0	4611.5	4473.3	4309.0	4169.7	4159.3
50°	4089.1	4082.9	4140.4	4334.1	4549.8	4696.3	4634.6	4497.4	4328.9	4191.7	4166.6
52.5°	4099.6	4089.1	4171.8	4395.9	4621.0	4695.3	4562.3	4383.3	4213.7	4060.9	4034.7
55°	4132.1	4113.2	4169.7	4418.9	4719.4	4756.0	4558.1	4290.1	4053.5	3845.2	3783.4
57.5°	4140.4	4119.5	4156.1	4381.2	4612.6	4580.1	4006.4	3462.1	3016.1	2784.7	2810.9
60°	4095.4	4101.7	4038.9	4013.8	3699.7	3266.3	2452.9	1960.8	1540.0	1362.0	1400.7
62.5°	3117.6	3143.8	2929.2	2547.1	1958.7	1552.5	1027.0	797.7	675.2	643.8	649.1
65°	1573.5	1609.1	1386.1	1146.3	852.2	688.9	595.7	576.8	570.6	563.2	563.2
67.5°	622.9	633.4	625.0	585.2	544.4	529.7	525.5	523.4	516.1	511.9	513.0
70°	500.4	508.8	496.2	471.1	454.3	453.3	451.2	447.0	441.8	441.8	444.9
72.5°	408.3	416.7	398.9	383.2	370.6	361.2	355.9	352.8	345.5	345.5	348.6
75°	300.5	305.7	291.0	288.9	275.3	265.9	257.5	253.3	243.9	239.7	242.9
77.5°	200.0	198.9	191.6	191.6	186.3	174.8	165.4	156.0	143.4	135.0	137.1
80°	129.8	129.8	126.7	126.7	121.4	112.0	100.5	91.1	83.8	77.5	77.5
82.5°	82.7	81.7	80.6	79.6	77.5	68.0	59.7	53.4	48.2	44.0	45.0
85°	46.1	46.1	44.0	44.0	39.8	34.5	30.4	26.2	23.0	22.0	22.0
87.5°	15.7	15.7	14.7	14.7	12.6	9.4	7.3	6.3	5.2	4.2	5.2
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)