

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: P636828

Luminaire Tested: GWS-SA4B-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

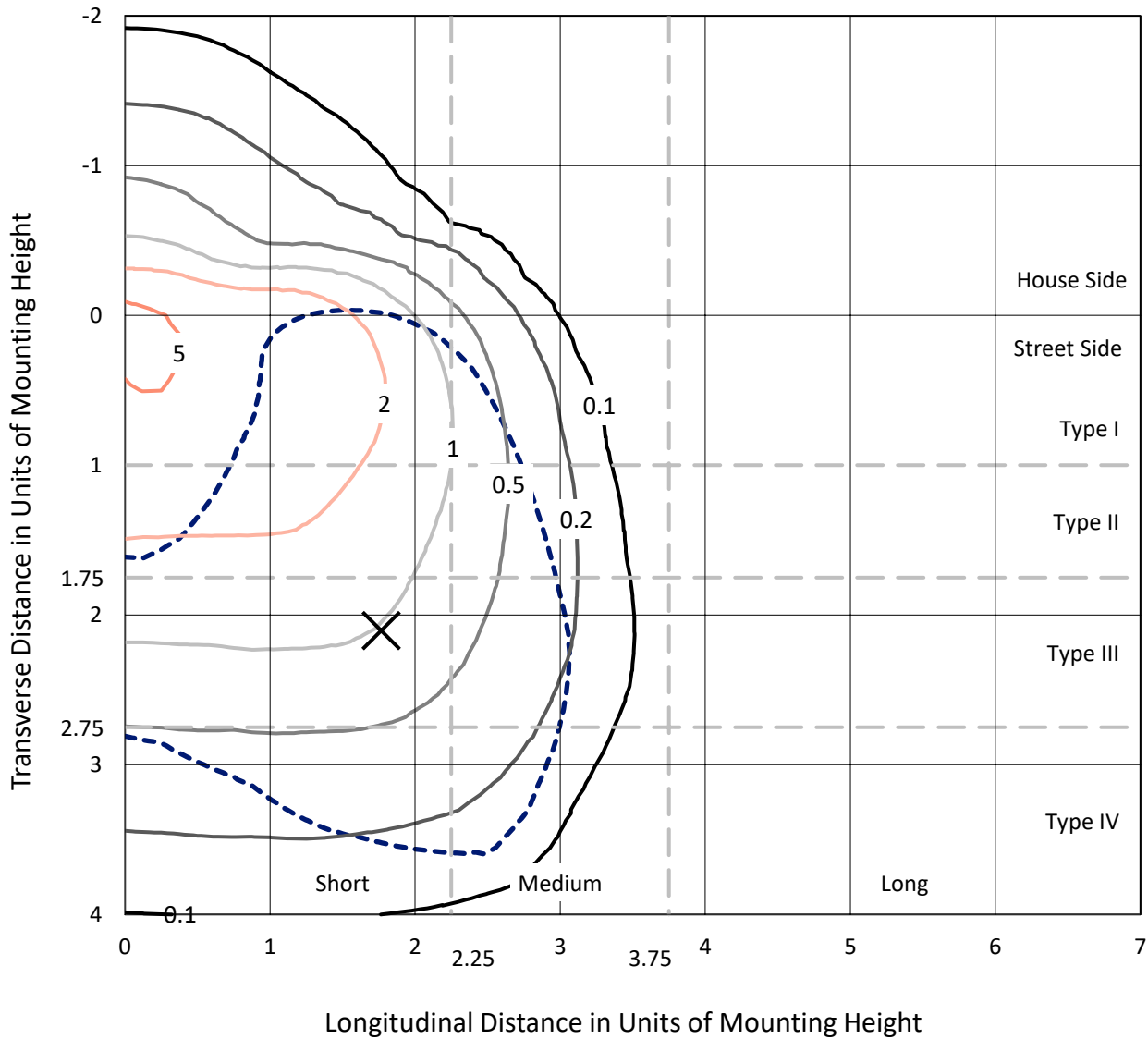
Lumens per Lamp: N/A  
Luminaire Lumens: 14219.6 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

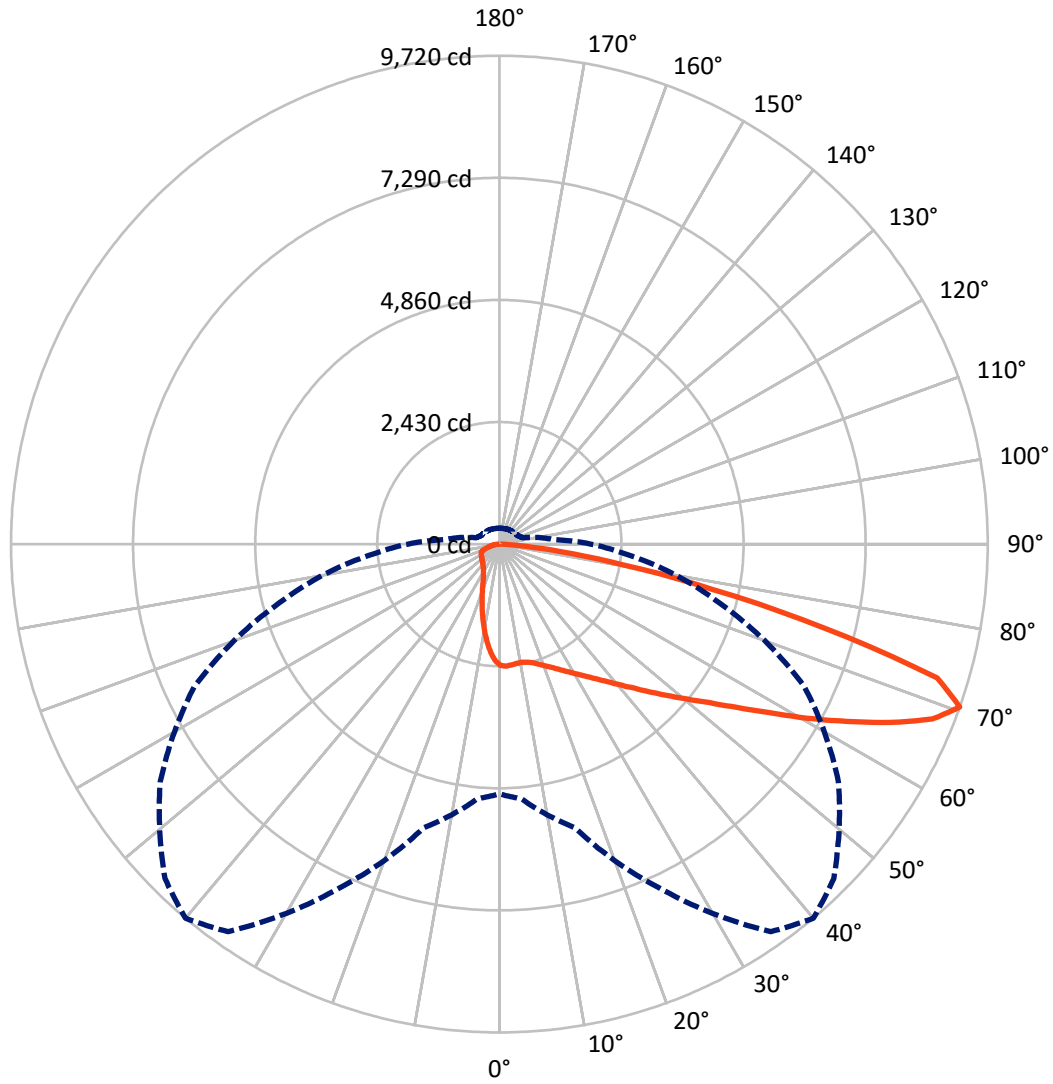
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2190.2	0.0	2190.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	12029.4	0.0	12029.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	14219.6	0.0	14219.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.3	1.5
10°-20°	556.0	3.9
20°-30°	873.1	6.1
30°-40°	1312.7	9.2
40°-50°	2026.1	14.2
50°-60°	3009.0	21.2
60°-70°	3792.7	26.7
70°-80°	2193.3	15.4
80°-90°	243.4	1.7
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°	14219.6	100.0
0°-180°	14219.6	100.0

**Coefficient of Utilization**



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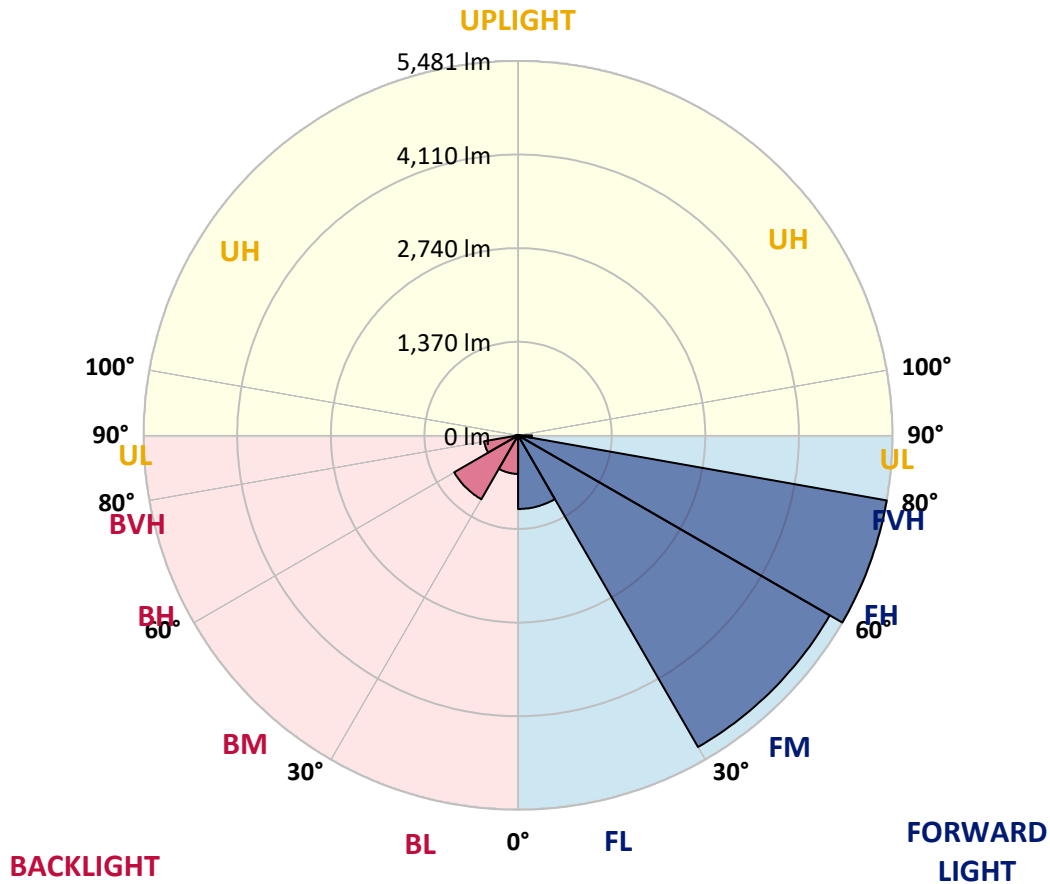
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1078.0	7.6			
FM (30°-60°)	5268.2	37.0			
FH (60°-80°)	5480.6	38.5			G3/7500
FVH (80°-90°)	202.7	1.4			G2/225
BL (0°-30°)	564.4	4.0	B2/1000		
BM (30°-60°)	1079.6	7.6	B2/2500		
BH (60°-80°)	505.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	40.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7
2.5°	2429.5	2433.8	2436.9	2441.2	2439.1	2432.7	2438.0	2438.0	2426.3	2413.6	2401.9
5°	2432.7	2438.0	2436.9	2435.9	2427.4	2416.8	2416.8	2410.4	2390.2	2370.1	2351.0
7.5°	2426.3	2425.3	2424.2	2421.0	2411.5	2399.8	2397.7	2384.9	2358.4	2330.8	2303.2
10°	2397.7	2396.6	2399.8	2407.2	2405.1	2394.5	2394.5	2382.8	2352.0	2318.1	2282.0
12.5°	2374.3	2374.3	2387.1	2407.2	2414.7	2410.4	2411.5	2403.0	2368.0	2327.6	2285.2
15°	2377.5	2378.6	2406.2	2439.1	2452.9	2449.7	2450.7	2441.2	2401.9	2361.6	2304.3
17.5°	2398.7	2404.0	2451.8	2497.4	2515.5	2511.2	2503.8	2487.9	2443.3	2397.7	2327.6
20°	2443.3	2451.8	2513.4	2570.7	2591.9	2582.3	2569.6	2537.8	2488.9	2439.1	2353.1
22.5°	2531.4	2536.7	2604.6	2660.9	2677.9	2666.2	2640.7	2595.1	2538.8	2486.8	2383.9
25°	2655.6	2662.0	2726.7	2778.7	2774.5	2760.7	2725.6	2669.4	2602.5	2547.3	2428.4
27.5°	2803.1	2813.7	2877.4	2918.8	2891.2	2871.0	2831.8	2763.8	2688.5	2638.6	2496.4
30°	2964.4	2968.7	3022.8	3064.2	3021.8	2994.2	2946.4	2873.2	2805.2	2768.1	2598.3
32.5°	3120.5	3124.7	3171.4	3194.8	3150.2	3130.0	3088.6	3011.1	2963.4	2943.2	2750.0
35°	3285.0	3283.9	3322.1	3342.3	3296.7	3288.2	3245.7	3186.3	3177.8	3204.3	2971.9
37.5°	3449.5	3439.9	3460.1	3486.7	3461.2	3469.7	3442.1	3421.9	3454.8	3523.8	3266.9
40°	3581.1	3581.1	3602.3	3635.2	3643.7	3680.9	3665.0	3691.5	3797.6	3962.2	3632.1
42.5°	3697.9	3698.9	3743.5	3794.5	3856.0	3913.3	3926.1	3995.1	4214.8	4472.7	4090.6
45°	3819.9	3821.0	3881.5	3955.8	4086.3	4195.7	4221.1	4376.1	4690.3	5004.4	4588.4
47.5°	3961.1	3949.4	4033.3	4157.4	4343.2	4500.3	4566.1	4785.8	5182.7	5569.1	5057.5
50°	4120.3	4095.9	4189.3	4403.7	4632.9	4848.4	4958.8	5210.3	5711.3	6090.2	5499.0
52.5°	4299.7	4285.9	4383.5	4644.6	4994.9	5243.2	5392.9	5723.0	6225.0	6609.2	5849.3
55°	4522.6	4489.7	4630.8	4963.0	5419.4	5735.7	5913.0	6230.3	6786.5	7080.5	6116.8
57.5°	4766.7	4730.6	4919.5	5361.1	5971.4	6318.4	6540.3	6801.4	7315.1	7441.4	6273.8
60°	5029.9	5018.2	5242.2	5828.1	6629.4	7032.7	7193.0	7429.7	7774.6	7650.5	6234.6
62.5°	5270.8	5266.6	5592.4	6334.3	7326.7	7770.4	7897.8	7960.4	8105.8	7636.7	5922.5
65°	5524.5	5560.6	6001.1	6921.3	8126.0	8561.1	8614.2	8455.0	8217.2	7274.7	5283.6
67.5°	5556.4	5626.4	6257.9	7471.1	8883.8	9294.5	9252.1	8642.9	7888.2	6267.5	4141.5
70°	4969.4	5091.5	5848.2	7554.9	9417.7	9720.2	9413.4	8238.5	6694.2	4540.6	2604.6
72.5°	4152.1	4257.2	4925.9	6442.6	8728.8	9114.1	8699.1	6973.3	4730.6	2604.6	1326.7
75°	3231.9	3354.0	3970.6	5121.2	6534.9	6688.8	6480.8	4863.3	2600.4	1074.1	602.9
77.5°	1972.1	2060.1	2539.9	3469.7	4572.4	4342.1	3679.8	2726.7	1141.0	514.8	372.5
80°	872.5	926.6	1251.4	1863.8	2641.8	2497.4	1968.9	1164.3	624.1	326.9	260.0
82.5°	468.1	503.1	616.7	737.7	1160.1	1213.2	983.9	670.8	335.4	186.8	148.6
85°	205.9	226.1	280.2	267.5	381.0	374.7	377.9	460.6	160.3	86.0	96.6
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	11.7	61.6	15.9	25.5	22.3
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°	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7
2.5°	2389.2	2370.1	2364.8	2358.4	2346.7	2326.6	2311.7	2294.7	2287.3	2278.8	2279.9
5°	2329.7	2306.4	2284.1	2255.4	2219.4	2179.0	2151.4	2119.6	2102.6	2086.7	2090.9
7.5°	2278.8	2242.7	2197.1	2136.6	2071.8	1999.6	1941.3	1895.6	1864.9	1843.6	1854.2
10°	2247.0	2204.5	2124.9	2026.2	1916.9	1806.5	1722.6	1644.1	1595.3	1557.1	1554.9
12.5°	2240.6	2185.4	2069.7	1926.4	1768.3	1620.7	1497.6	1391.5	1326.7	1279.0	1297.0
15°	2247.0	2176.9	2021.9	1834.1	1634.5	1435.0	1282.2	1160.1	1082.6	1039.1	1035.9
17.5°	2254.4	2168.4	1967.8	1734.3	1494.4	1266.2	1089.0	959.5	879.9	836.4	837.4
20°	2260.8	2155.7	1904.1	1625.0	1352.2	1109.1	925.5	802.4	731.3	699.5	704.8
22.5°	2271.4	2142.9	1836.2	1508.2	1206.8	957.4	796.0	696.3	653.8	632.6	633.6
25°	2291.5	2135.5	1766.1	1380.9	1063.5	836.4	706.9	640.0	613.5	600.7	599.7
27.5°	2332.9	2141.9	1692.9	1257.7	934.0	744.0	649.6	606.1	588.0	579.5	578.5
30°	2401.9	2167.3	1629.2	1132.5	822.6	671.9	610.3	583.8	573.1	565.7	564.7
32.5°	2507.0	2215.1	1560.2	1015.7	732.4	618.8	579.5	565.7	558.3	554.0	554.0
35°	2666.2	2302.1	1492.3	913.9	662.3	577.4	555.1	549.8	543.4	541.3	543.4
37.5°	2895.5	2441.2	1430.7	824.7	612.4	545.6	528.6	530.7	525.4	528.6	531.8
40°	3186.3	2626.9	1378.7	751.5	575.3	522.2	505.2	512.6	509.5	512.6	518.0
42.5°	3554.6	2857.2	1339.5	694.1	548.7	503.1	487.2	494.6	492.5	496.7	502.0
45°	3965.3	3160.8	1321.4	653.8	529.6	489.3	472.3	477.6	475.5	478.7	484.0
47.5°	4359.1	3436.8	1337.3	630.5	513.7	477.6	459.6	461.7	460.6	459.6	462.8
50°	4698.8	3656.5	1383.0	623.0	503.1	465.9	449.0	450.0	446.8	440.5	442.6
52.5°	4975.8	3832.7	1410.6	623.0	497.8	453.2	437.3	438.4	432.0	423.5	424.6
55°	5158.3	3903.8	1388.3	622.0	495.7	442.6	425.6	426.7	420.3	409.7	410.8
57.5°	5210.3	3834.8	1294.9	610.3	493.5	434.1	413.9	416.1	411.8	400.1	400.1
60°	5064.9	3582.2	1124.0	583.8	488.2	428.8	405.4	408.6	406.5	394.8	394.8
62.5°	4683.9	3133.2	920.2	543.4	473.4	422.4	398.0	404.4	409.7	403.3	402.3
65°	3970.6	2510.2	748.3	498.9	454.3	411.8	387.4	403.3	415.0	423.5	423.5
67.5°	2979.3	1796.9	610.3	452.2	425.6	390.6	373.6	388.5	397.0	402.3	405.4
70°	1816.0	1057.1	480.8	398.0	384.2	358.7	346.0	331.2	319.5	317.4	318.4
72.5°	888.4	605.0	390.6	338.6	328.0	304.6	276.0	269.6	264.3	261.1	260.0
75°	489.3	421.4	322.7	281.3	262.2	233.5	227.1	216.5	214.4	210.2	211.2
77.5°	346.0	332.2	266.4	228.2	199.5	184.7	187.9	180.4	180.4	177.3	176.2
80°	260.0	261.1	204.8	166.6	147.5	142.2	145.4	145.4	143.3	142.2	141.2
82.5°	164.5	185.7	138.0	107.2	105.1	106.1	105.1	104.0	106.1	103.0	101.9
85°	113.6	133.7	83.8	63.7	63.7	62.6	64.7	63.7	65.8	62.6	62.6
87.5°	25.5	59.4	30.8	19.1	20.2	19.1	20.2	21.2	23.4	24.4	24.4
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)