

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: P641502

Luminaire Tested: GWS-SA6B-722-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-722-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

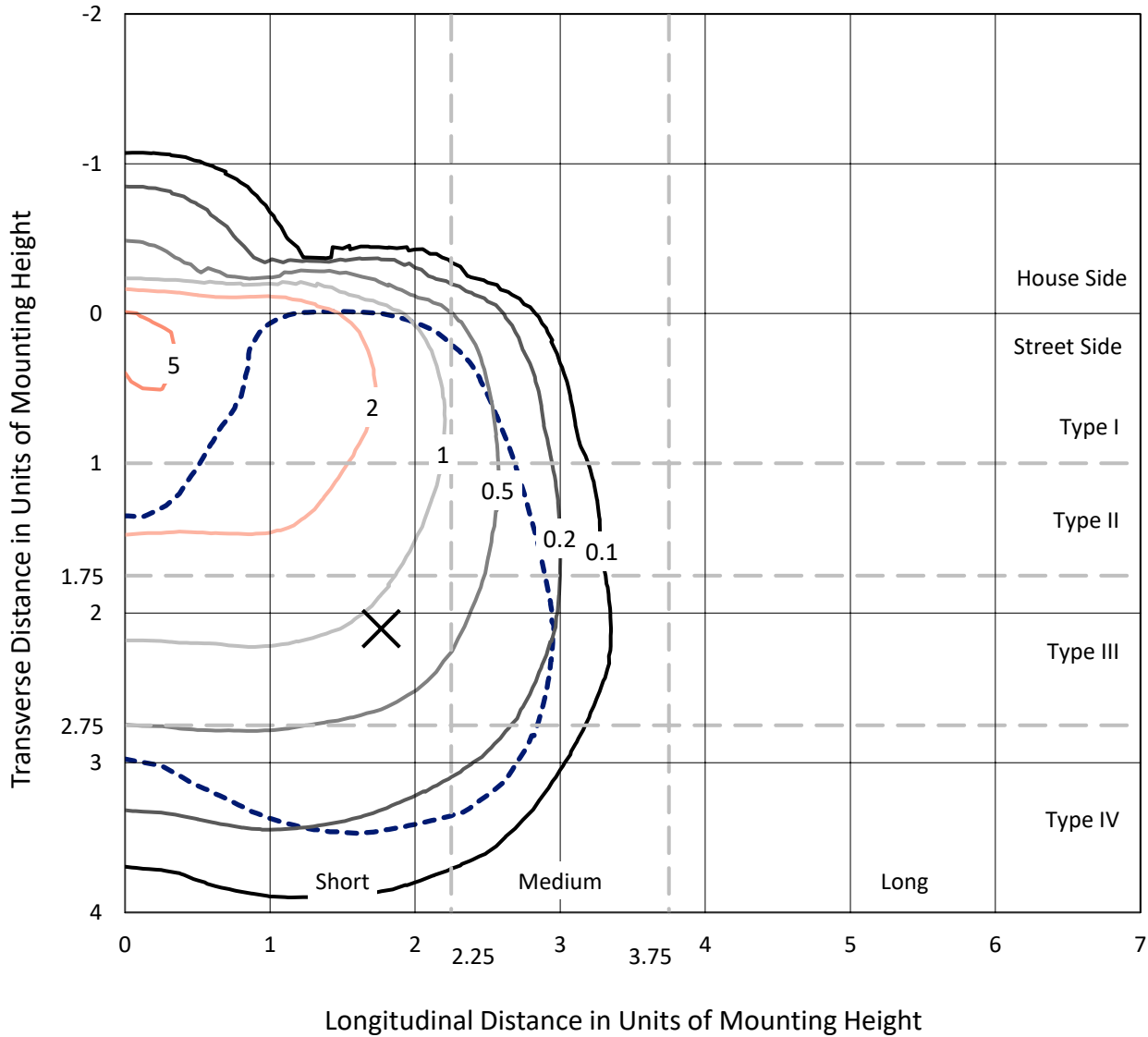
Lumens per Lamp: N/A  
Luminaire Lumens: 12288 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

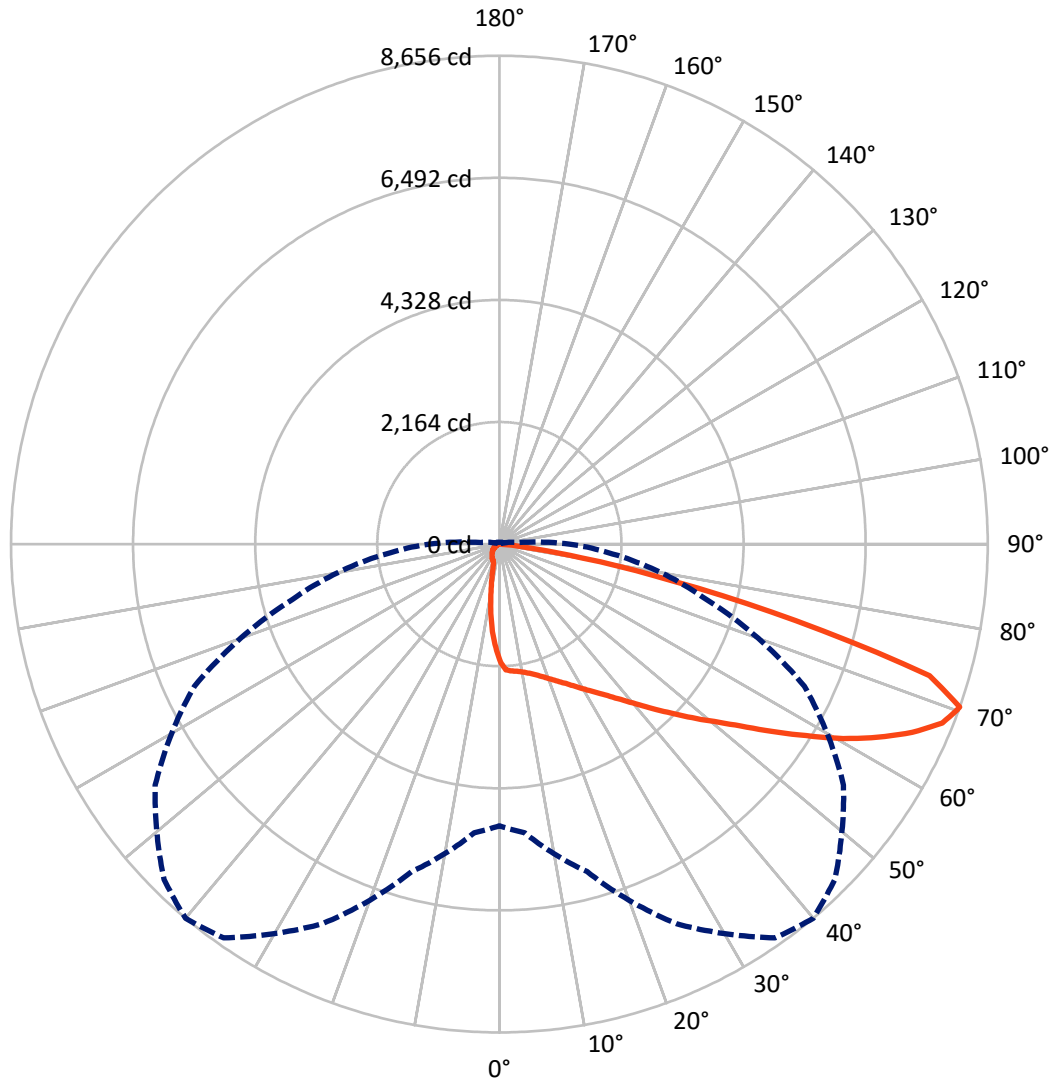
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	1004.8	0.0	1004.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	11283.2	0.0	11283.2
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	12288.0	0.0	12288.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	1.4
10°-20°	447.0	3.6
20°-30°	748.1	6.1
30°-40°	1175.0	9.6
40°-50°	1858.5	15.1
50°-60°	2711.1	22.1
60°-70°	3360.8	27.4
70°-80°	1700.4	13.8
80°-90°	111.0	0.9
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°	12288.0	100.0
0°-180°	12288.0	100.0

**Coefficient of Utilization**



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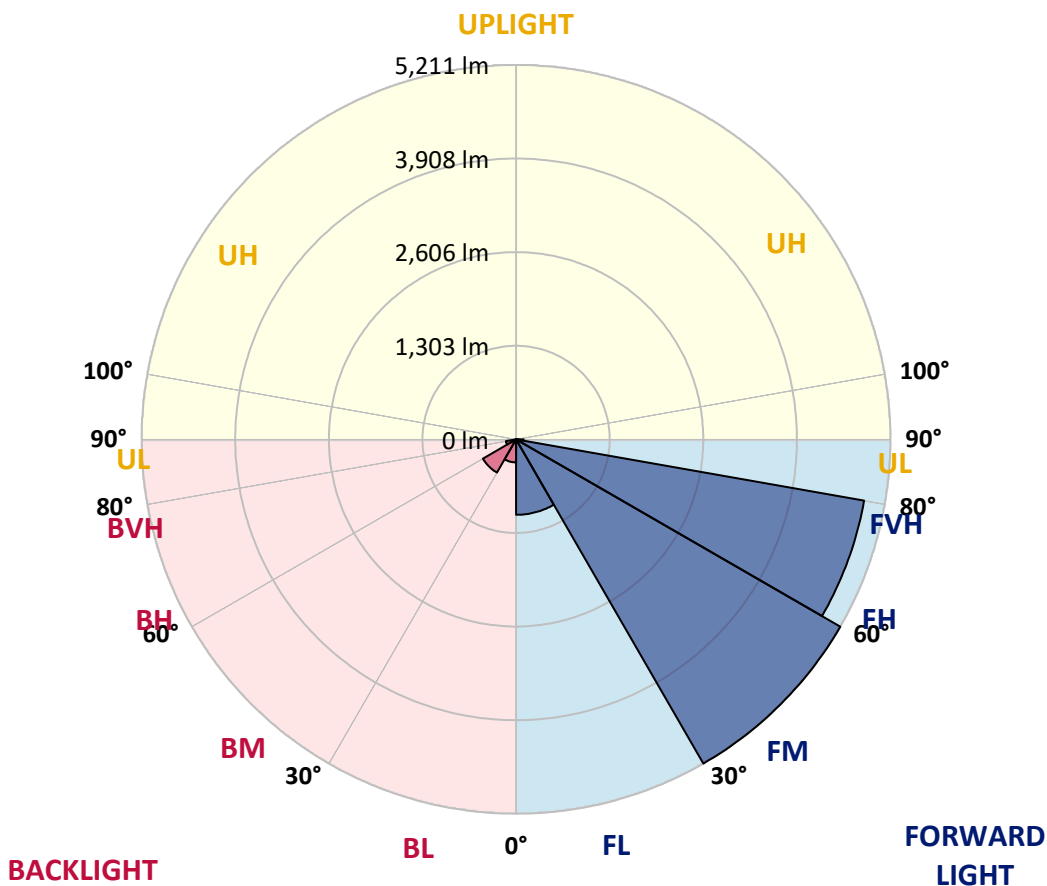
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.4	8.5			
FM (30°-60°)	5211.2	42.4			
FH (60°-80°)	4917.9	40.0			G2/5000
FVH (80°-90°)	103.7	0.8			G2/225
BL (0°-30°)	320.9	2.6	B1/500		
BM (30°-60°)	533.4	4.3	B1/1000		
BH (60°-80°)	143.3	1.2	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1
2.5°	2241.7	2249.5	2248.4	2251.7	2243.9	2231.6	2229.4	2212.6	2182.4	2144.4	2101.9
5°	2287.5	2296.4	2289.7	2286.4	2271.8	2258.4	2255.1	2237.2	2202.5	2151.1	2077.3
7.5°	2326.6	2328.9	2324.4	2316.6	2295.3	2277.4	2265.1	2240.5	2199.2	2147.7	2062.8
10°	2333.3	2332.2	2334.4	2335.6	2322.1	2306.5	2296.4	2262.9	2210.3	2155.6	2063.9
12.5°	2325.5	2325.5	2340.0	2356.8	2356.8	2349.0	2338.9	2308.7	2247.2	2182.4	2086.2
15°	2335.6	2338.9	2366.9	2398.2	2408.2	2400.4	2395.9	2364.6	2300.9	2229.4	2126.5
17.5°	2371.3	2374.7	2419.4	2466.4	2478.7	2469.7	2460.8	2429.5	2361.3	2283.0	2172.3
20°	2423.9	2432.8	2489.9	2550.2	2561.4	2550.2	2532.3	2488.7	2420.5	2341.2	2215.9
22.5°	2520.0	2525.6	2587.1	2650.8	2656.4	2638.6	2611.7	2551.3	2479.8	2402.6	2265.1
25°	2647.5	2655.3	2716.8	2778.3	2763.8	2736.9	2700.0	2631.8	2550.2	2475.3	2327.7
27.5°	2799.5	2808.5	2868.9	2922.5	2884.5	2853.2	2811.8	2726.9	2644.1	2575.9	2408.2
30°	2963.9	2971.7	3025.4	3073.5	3023.2	2986.3	2937.1	2849.9	2766.0	2714.6	2522.3
32.5°	3122.7	3121.5	3173.0	3212.1	3160.7	3131.6	3086.9	2998.6	2931.5	2909.1	2692.2
35°	3270.2	3270.2	3312.7	3351.9	3315.0	3299.3	3257.9	3187.5	3149.5	3176.3	2919.2
37.5°	3418.9	3411.1	3451.4	3495.0	3491.6	3492.7	3469.2	3435.7	3437.9	3533.0	3231.1
40°	3541.9	3538.6	3585.5	3642.5	3687.3	3723.0	3708.5	3720.8	3791.2	3969.0	3630.2
42.5°	3640.3	3648.1	3708.5	3799.1	3912.0	3984.7	3994.7	4045.0	4226.2	4501.2	4080.8
45°	3753.2	3754.3	3838.2	3976.8	4156.8	4272.0	4312.2	4441.9	4699.1	5053.5	4575.0
47.5°	3891.9	3878.4	3972.4	4166.9	4427.4	4597.3	4668.9	4831.0	5229.0	5592.4	4977.5
50°	4045.0	4020.4	4126.6	4391.6	4730.4	4942.8	5088.2	5325.2	5754.5	6035.1	5277.1
52.5°	4222.8	4199.3	4320.1	4649.9	5093.7	5352.0	5538.7	5778.0	6205.1	6372.8	5456.0
55°	4448.6	4425.2	4552.6	4959.6	5523.1	5858.5	6054.1	6255.4	6624.3	6622.1	5585.7
57.5°	4699.1	4666.7	4843.3	5350.9	6058.6	6407.4	6606.4	6704.8	6943.0	6815.5	5672.9
60°	4986.4	4957.3	5202.2	5817.1	6676.9	7000.0	7125.2	7085.0	7204.6	6929.6	5642.7
62.5°	5245.8	5232.4	5536.5	6311.3	7266.1	7538.9	7573.5	7398.0	7396.9	6931.8	5439.2
65°	5515.2	5541.0	5992.6	6880.4	7858.6	8042.0	7982.7	7708.8	7474.0	6657.9	4837.7
67.5°	5615.9	5690.8	6293.4	7394.7	8326.0	8469.1	8365.1	7864.2	7153.2	5736.6	3683.9
70°	4994.2	5135.1	6009.4	7423.7	8519.4	8655.8	8406.5	7446.1	5963.6	3800.2	2018.0
72.5°	3797.9	3962.3	5007.7	6078.7	7661.9	7972.7	7546.7	6066.4	3843.8	1664.7	677.5
75°	2125.4	2303.1	3729.7	4577.2	5144.1	5428.0	5271.5	3891.9	1702.8	434.9	202.4
77.5°	718.9	778.1	1735.2	2832.0	3395.5	3140.5	2658.7	1933.1	626.1	165.5	107.3
80°	426.0	448.3	646.2	1409.8	1786.6	1481.4	1169.5	714.4	318.6	88.3	74.9
82.5°	127.5	150.9	356.7	523.2	699.9	436.0	368.9	408.1	165.5	48.1	62.6
85°	0.0	0.0	76.0	162.1	183.4	71.6	71.6	231.4	30.2	20.1	45.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.6	3.4	4.5	10.1
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°	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1	2085.1
2.5°	2071.7	2032.6	1986.7	1943.1	1901.8	1848.1	1822.4	1791.1	1764.3	1749.7	1757.5
5°	2030.3	1968.9	1874.9	1779.9	1683.8	1593.2	1511.6	1456.8	1407.6	1381.9	1387.5
7.5°	1994.6	1911.8	1765.4	1610.0	1455.7	1300.3	1173.9	1075.5	999.5	968.2	962.6
10°	1978.9	1874.9	1668.1	1444.5	1207.5	998.4	819.5	711.1	633.9	595.9	602.6
12.5°	1986.7	1855.9	1585.4	1282.4	974.9	731.2	560.1	458.4	403.6	381.2	375.7
15°	2009.1	1851.5	1511.6	1116.9	752.4	510.9	386.8	345.5	334.3	332.1	332.1
17.5°	2034.8	1852.6	1435.6	949.2	571.3	379.0	330.9	323.1	319.8	317.5	318.6
20°	2060.5	1852.6	1348.3	779.3	429.3	327.6	315.3	309.7	306.3	305.2	305.2
22.5°	2091.8	1852.6	1251.1	621.6	344.4	310.8	300.8	297.4	294.0	292.9	291.8
25°	2129.8	1853.7	1143.7	486.3	313.0	296.3	288.5	285.1	281.7	279.5	279.5
27.5°	2184.6	1862.6	1025.2	379.0	295.2	282.9	276.2	272.8	269.4	266.1	266.1
30°	2264.0	1885.0	892.2	313.0	278.4	268.3	261.6	259.4	256.0	252.7	251.6
32.5°	2382.5	1924.1	754.7	280.6	262.7	252.7	244.8	242.6	239.3	235.9	234.8
35°	2548.0	1995.7	620.5	260.5	242.6	232.6	228.1	227.0	222.5	219.1	219.1
37.5°	2790.6	2112.0	491.9	240.4	225.8	218.0	212.4	210.2	205.7	202.4	201.2
40°	3086.9	2262.9	382.4	224.7	210.2	202.4	196.8	193.4	187.8	183.4	181.1
42.5°	3464.8	2447.4	301.9	208.0	195.7	187.8	183.4	176.6	168.8	162.1	161.0
45°	3858.3	2637.4	249.3	192.3	182.2	175.5	169.9	161.0	149.8	142.0	139.8
47.5°	4160.2	2755.9	218.0	175.5	167.7	162.1	155.4	144.2	130.8	121.9	119.6
50°	4376.0	2773.8	194.5	159.9	155.4	149.8	139.8	126.3	111.8	102.9	100.6
52.5°	4482.2	2693.3	175.5	145.3	142.0	136.4	124.1	109.6	93.9	85.0	82.7
55°	4530.3	2541.3	157.6	133.0	128.6	121.9	108.4	92.8	77.1	69.3	67.1
57.5°	4511.3	2316.6	142.0	120.7	115.2	107.3	92.8	76.0	63.7	55.9	54.8
60°	4370.4	2001.3	126.3	108.4	101.7	92.8	78.3	62.6	51.4	45.8	44.7
62.5°	4066.3	1610.0	110.7	93.9	89.4	80.5	67.1	51.4	42.5	39.1	38.0
65°	3443.5	1138.2	95.0	79.4	77.1	68.2	55.9	42.5	36.9	34.7	33.5
67.5°	2475.3	692.1	80.5	68.2	66.0	58.1	47.0	36.9	33.5	32.4	32.4
70°	1244.4	327.6	63.7	55.9	55.9	48.1	40.2	33.5	32.4	31.3	31.3
72.5°	422.6	139.8	48.1	43.6	45.8	41.4	34.7	31.3	31.3	31.3	31.3
75°	144.2	73.8	33.5	31.3	33.5	33.5	30.2	30.2	31.3	31.3	31.3
77.5°	93.9	49.2	23.5	21.2	25.7	25.7	25.7	28.0	30.2	30.2	30.2
80°	77.1	26.8	15.7	14.5	19.0	19.0	21.2	25.7	28.0	28.0	28.0
82.5°	66.0	16.8	8.9	10.1	13.4	14.5	17.9	21.2	24.6	25.7	25.7
85°	44.7	8.9	6.7	7.8	8.9	11.2	14.5	17.9	20.1	22.4	22.4
87.5°	12.3	3.4	4.5	5.6	5.6	7.8	11.2	13.4	15.7	16.8	16.8
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)