

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: P636711

Luminaire Tested: GWS-SA4B-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11316.8 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

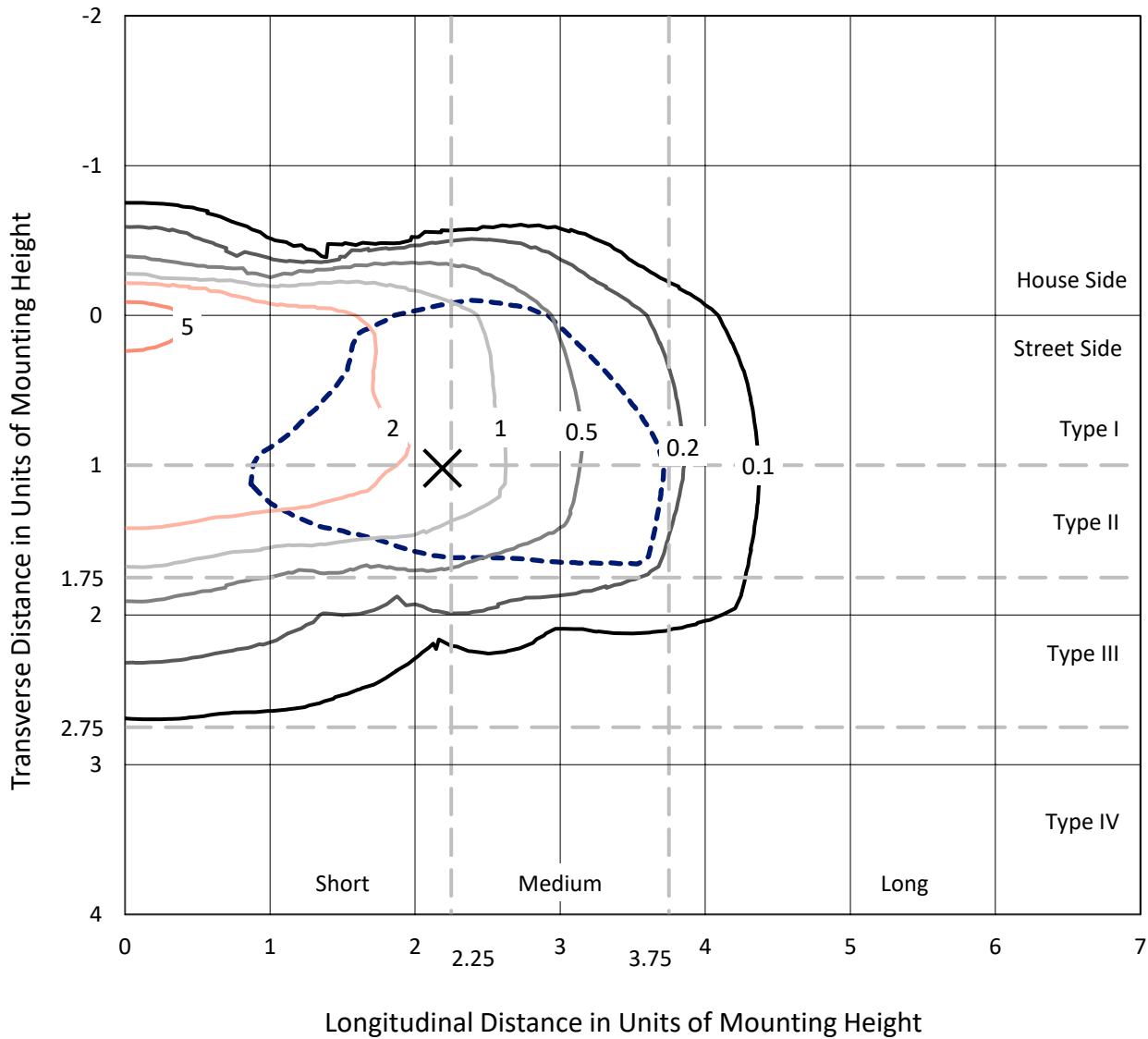
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

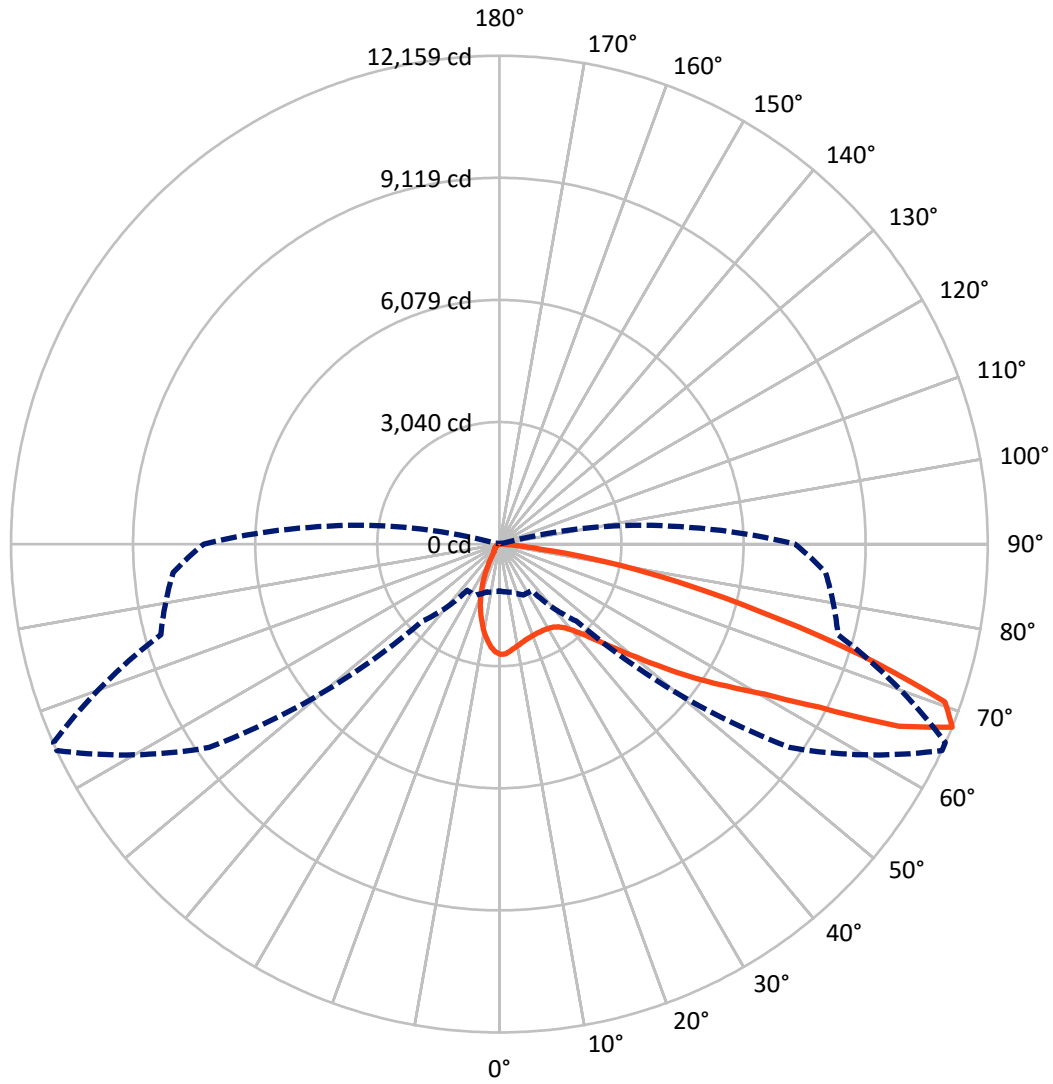
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1413.1	0.0	1413.1
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	9903.7	0.0	9903.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	11316.8	0.0	11316.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	2.0
10°-20°	512.4	4.5
20°-30°	732.3	6.5
30°-40°	1065.3	9.4
40°-50°	1668.5	14.7
50°-60°	2602.9	23.0
60°-70°	2859.1	25.3
70°-80°	1521.6	13.4
80°-90°	126.7	1.1
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°	11316.8	100.0
0°-180°	11316.8	100.0

Coefficient of Utilization



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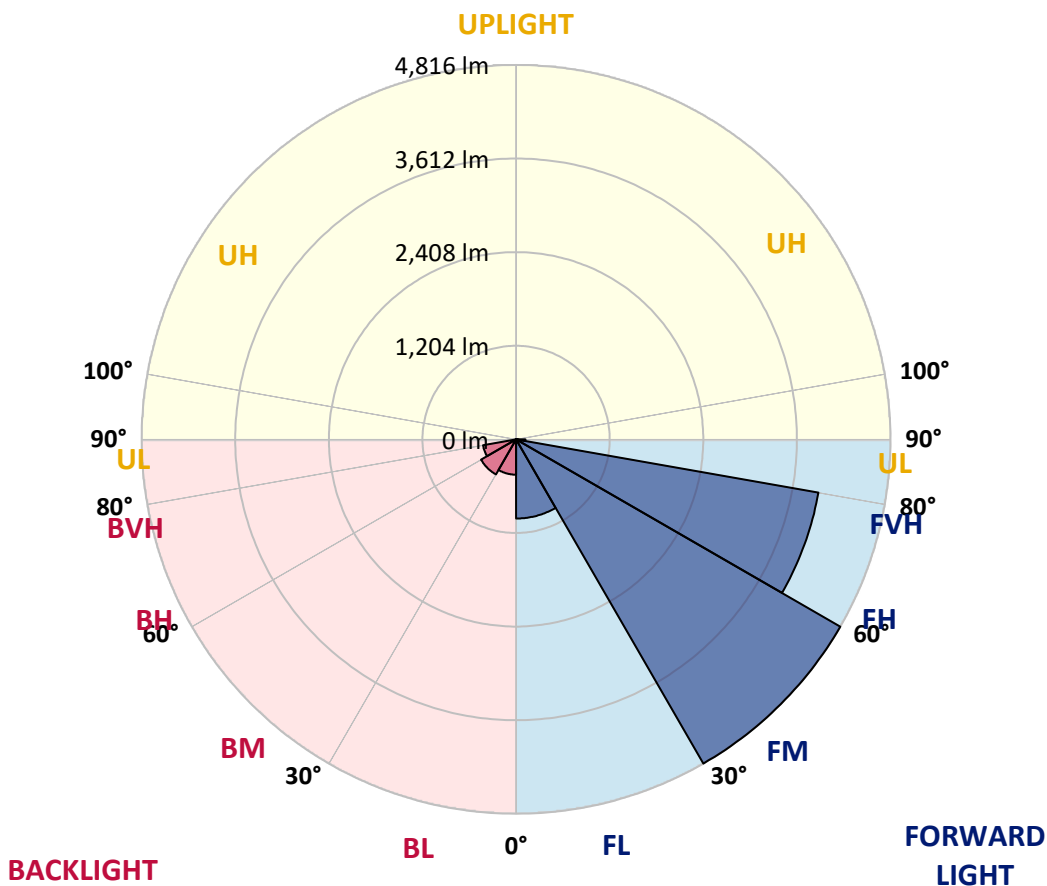
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.4	9.0			
FM (30°-60°)	4816.2	42.6			
FH (60°-80°)	3949.1	34.9			G2/5000
FVH (80°-90°)	119.9	1.1			G2/225
BL (0°-30°)	454.2	4.0	B1/500		
BM (30°-60°)	520.5	4.6	B1/1000		
BH (60°-80°)	431.6	3.8	B1/500		G1/500
BVH (80°-90°)	6.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7
2.5°	2649.5	2657.7	2646.4	2674.1	2679.2	2709.9	2727.3	2739.6	2738.5	2753.9	2753.9
5°	2494.0	2502.1	2496.0	2525.7	2549.2	2597.3	2637.2	2683.3	2685.3	2732.4	2749.8
7.5°	2361.9	2363.0	2363.0	2399.8	2430.5	2489.9	2549.2	2619.8	2628.0	2700.7	2746.7
10°	2253.5	2256.5	2257.6	2299.5	2333.3	2404.9	2480.7	2565.6	2574.8	2673.0	2744.7
12.5°	2178.8	2179.8	2183.9	2227.9	2264.7	2339.4	2416.2	2513.4	2525.7	2641.3	2735.5
15°	2142.9	2140.9	2142.9	2179.8	2216.6	2288.3	2367.1	2471.4	2484.7	2614.7	2736.5
17.5°	2140.9	2137.8	2135.8	2163.4	2186.9	2250.4	2330.2	2443.8	2458.1	2602.4	2747.8
20°	2170.6	2168.5	2158.3	2170.6	2175.7	2227.9	2306.7	2422.3	2436.6	2600.4	2772.3
22.5°	2248.3	2243.2	2227.9	2216.6	2189.0	2219.7	2290.3	2407.0	2423.3	2605.5	2804.0
25°	2364.0	2361.9	2342.5	2314.9	2244.3	2232.0	2291.3	2407.0	2422.3	2611.6	2837.8
27.5°	2538.0	2525.7	2501.1	2453.0	2351.7	2280.1	2311.8	2413.1	2428.5	2619.8	2865.4
30°	2715.0	2714.0	2705.8	2656.7	2506.2	2372.2	2354.8	2429.5	2443.8	2627.0	2891.0
32.5°	2898.2	2901.3	2921.7	2883.9	2719.1	2509.3	2432.6	2463.3	2473.5	2641.3	2913.5
35°	3072.2	3078.3	3132.5	3145.8	2978.0	2717.0	2559.5	2530.8	2531.8	2673.0	2943.2
37.5°	3239.0	3259.4	3346.4	3410.9	3300.4	2968.8	2742.6	2645.4	2637.2	2736.5	2988.2
40°	3428.3	3467.2	3576.7	3686.2	3651.4	3301.4	2992.3	2821.4	2804.0	2853.2	3069.1
42.5°	3638.1	3680.0	3825.4	3978.9	3995.2	3703.6	3304.5	3078.3	3048.6	3049.6	3220.5
45°	3863.2	3919.5	4088.4	4309.4	4408.7	4151.8	3689.3	3425.2	3395.5	3351.5	3464.1
47.5°	4159.0	4208.1	4370.8	4625.6	4816.0	4632.8	4193.8	3871.4	3817.2	3752.7	3842.8
50°	4413.8	4456.8	4597.0	4916.3	5312.3	5253.0	4765.8	4429.1	4377.0	4267.5	4342.2
52.5°	4470.1	4503.9	4632.8	4992.0	5692.0	6035.8	5466.8	5103.6	5066.7	4864.1	4892.7
55°	4217.3	4268.5	4384.1	4783.2	5791.3	6801.3	6376.6	5863.9	5787.2	5463.8	5514.9
57.5°	3578.7	3669.8	3778.3	4297.1	5522.1	7208.6	7647.7	6669.3	6599.7	6041.0	6042.0
60°	2622.9	2696.6	2769.2	3244.1	4883.5	7181.0	8801.0	7574.0	7447.1	6512.7	6495.3
62.5°	1907.6	1945.4	1944.4	2113.3	3353.6	6708.2	9406.8	8937.1	8641.3	7017.3	6918.0
65°	1500.3	1499.2	1543.2	1598.5	1872.8	5178.3	9481.5	10927.6	10608.3	7693.7	7487.0
67.5°	1167.7	1190.2	1234.2	1396.9	1407.1	2709.9	8824.5	12158.7	12152.5	8726.3	8153.2
70°	900.6	931.3	993.7	1231.1	1299.7	1516.6	6602.8	11768.8	11868.0	9187.8	7681.4
72.5°	578.2	576.2	668.3	994.7	1248.5	1263.9	3651.4	9348.5	9461.1	8322.1	6210.8
75°	323.4	325.4	377.6	608.9	1163.6	1189.2	1808.3	6666.2	6755.3	6488.2	4772.0
77.5°	126.9	131.0	177.0	320.3	767.5	1062.3	1074.5	4545.8	4559.1	4020.8	2926.8
80°	51.2	54.2	90.1	198.5	467.7	715.3	767.5	2678.2	2623.9	1556.5	851.4
82.5°	15.4	16.4	35.8	112.6	244.6	508.6	517.8	1027.5	970.2	334.6	217.0
85°	1.0	1.0	8.2	34.8	87.0	127.9	344.9	334.6	296.8	83.9	96.2
87.5°	0.0	0.0	1.0	1.0	2.0	4.1	36.8	61.4	62.4	15.4	43.0
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°	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7
2.5°	2753.9	2717.0	2714.0	2685.3	2656.7	2620.9	2578.9	2548.2	2526.7	2488.8	2481.7
5°	2749.8	2700.7	2654.6	2572.8	2481.7	2383.4	2297.5	2217.6	2167.5	2133.7	2119.4
7.5°	2741.6	2679.2	2572.8	2418.2	2265.7	2093.8	1959.8	1837.0	1753.0	1703.9	1682.4
10°	2735.5	2651.6	2478.6	2244.3	2007.9	1770.4	1566.8	1384.6	1283.3	1203.5	1190.2
12.5°	2723.2	2611.6	2357.8	2040.6	1735.6	1420.4	1160.5	937.4	782.9	713.3	688.7
15°	2710.9	2569.7	2237.1	1825.7	1438.9	1050.0	734.8	519.9	413.4	380.7	378.6
17.5°	2708.9	2531.8	2106.1	1622.0	1127.8	687.7	418.6	336.7	314.2	306.0	306.0
20°	2715.0	2500.1	1977.2	1387.7	821.8	418.6	312.1	291.7	278.4	271.2	271.2
22.5°	2721.1	2467.3	1853.3	1151.3	545.5	306.0	275.3	257.9	242.5	234.4	230.3
25°	2725.2	2431.5	1716.2	913.9	356.1	266.1	241.5	219.0	200.6	190.3	190.3
27.5°	2724.2	2388.5	1578.0	681.6	276.3	236.4	206.7	183.2	164.8	153.5	154.5
30°	2716.0	2341.5	1434.8	475.9	241.5	206.7	177.0	152.5	134.1	124.9	123.8
32.5°	2709.9	2291.3	1269.0	334.6	217.0	181.1	150.4	126.9	111.5	104.4	103.4
35°	2702.7	2242.2	1111.4	254.8	195.5	156.6	126.9	107.5	95.2	89.0	89.0
37.5°	2704.8	2191.0	940.5	219.0	174.0	136.1	108.5	92.1	81.9	75.7	74.7
40°	2736.5	2160.3	772.6	198.5	154.5	117.7	94.2	79.8	69.6	63.4	62.4
42.5°	2815.3	2161.4	612.0	183.2	137.1	100.3	81.9	68.6	59.4	52.2	51.2
45°	2972.9	2204.3	469.7	166.8	118.7	87.0	70.6	58.3	49.1	43.0	42.0
47.5°	3230.8	2332.3	356.1	152.5	103.4	75.7	60.4	49.1	40.9	35.8	34.8
50°	3641.2	2563.5	280.4	135.1	87.0	65.5	51.2	40.9	33.8	28.7	27.6
52.5°	4134.4	2910.5	240.5	119.7	74.7	57.3	44.0	33.8	27.6	23.5	22.5
55°	4701.4	3324.9	222.1	104.4	63.4	49.1	35.8	27.6	22.5	19.4	17.4
57.5°	5221.2	3698.5	221.0	89.0	54.2	42.0	29.7	23.5	19.4	15.4	14.3
60°	5727.8	4010.6	207.7	73.7	47.1	34.8	25.6	19.4	16.4	13.3	12.3
62.5°	6187.3	4264.4	174.0	59.4	39.9	28.7	21.5	17.4	14.3	11.3	11.3
65°	6764.5	4587.8	133.0	48.1	32.7	23.5	18.4	15.4	13.3	10.2	10.2
67.5°	7361.1	4758.7	95.2	39.9	26.6	20.5	16.4	14.3	11.3	9.2	9.2
70°	6667.3	4020.8	68.6	32.7	22.5	17.4	14.3	13.3	11.3	9.2	8.2
72.5°	5206.9	2899.2	51.2	25.6	19.4	16.4	13.3	12.3	10.2	8.2	8.2
75°	3861.2	1690.6	38.9	20.5	15.4	13.3	13.3	12.3	10.2	8.2	7.2
77.5°	2098.9	589.5	29.7	16.4	12.3	10.2	11.3	11.3	9.2	7.2	6.1
80°	555.7	161.7	20.5	12.3	10.2	8.2	8.2	10.2	8.2	6.1	6.1
82.5°	161.7	47.1	14.3	10.2	8.2	7.2	7.2	7.2	6.1	5.1	4.1
85°	78.8	17.4	10.2	8.2	7.2	6.1	5.1	5.1	4.1	3.1	3.1
87.5°	34.8	7.2	8.2	7.2	7.2	5.1	4.1	3.1	3.1	2.0	1.0
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)