

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: P636883

Luminaire Tested: GWS-SA4B-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636883
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-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14024.7 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

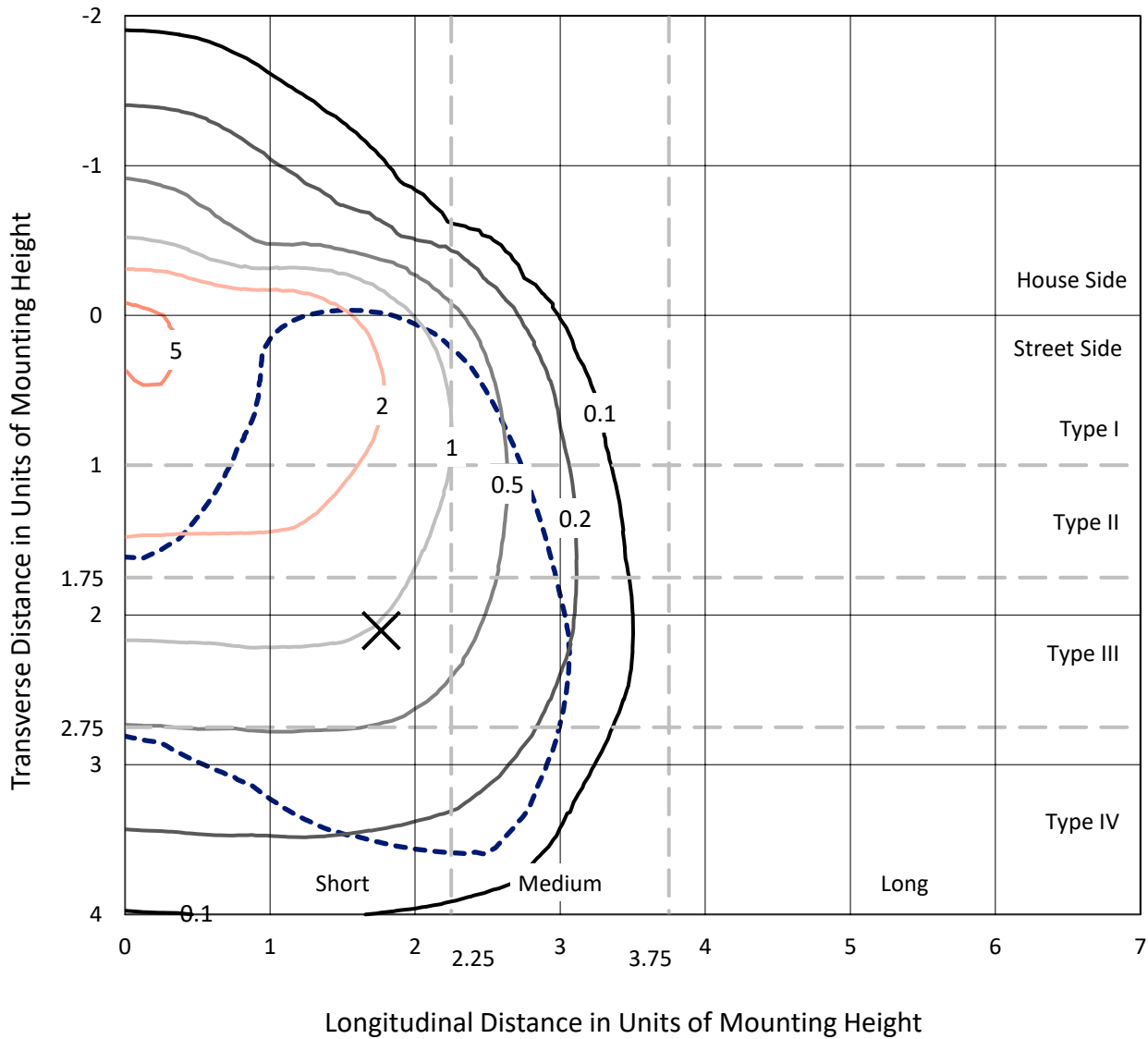
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

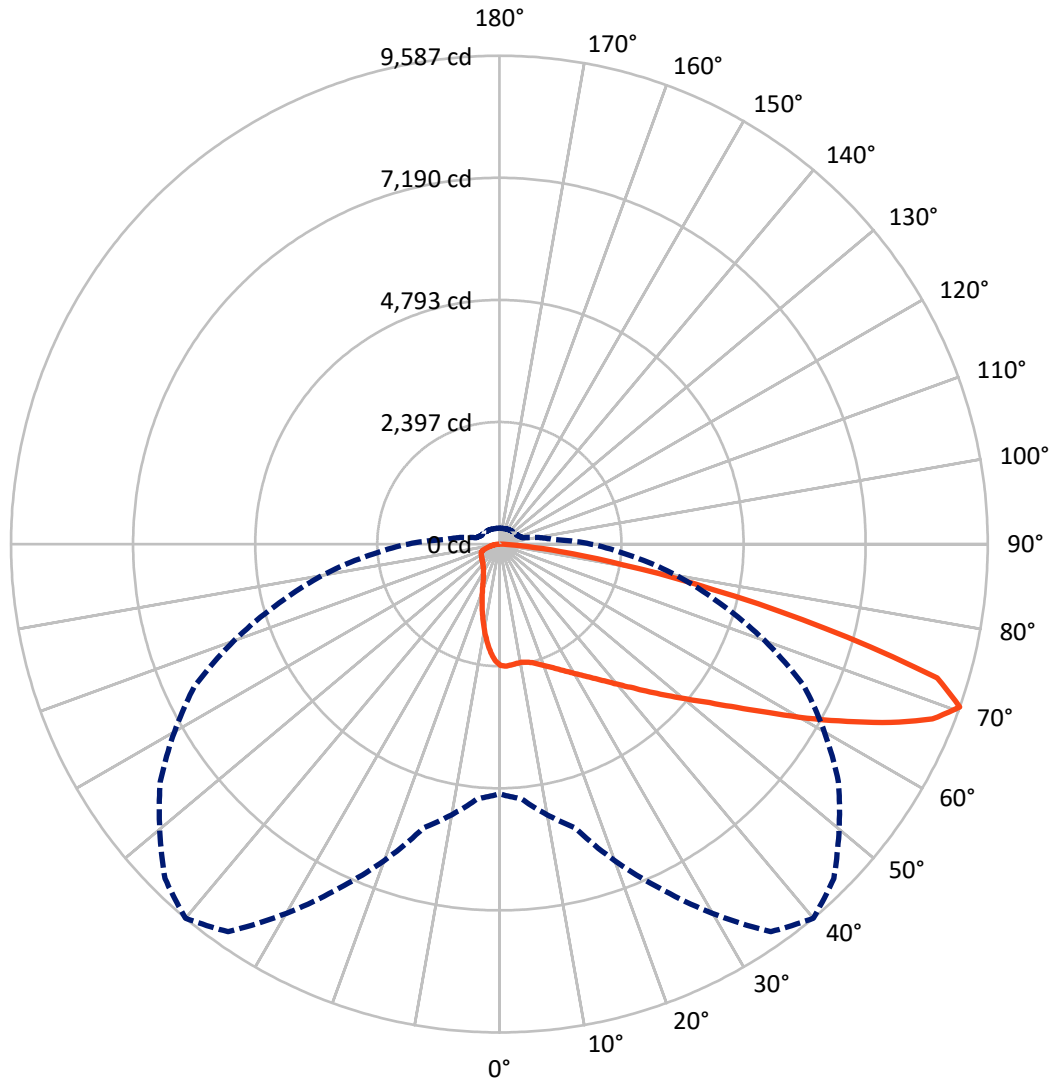
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2160.2	0.0	2160.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11864.5	0.0	11864.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	14024.7	0.0	14024.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.5
10°-20°	548.4	3.9
20°-30°	861.1	6.1
30°-40°	1294.7	9.2
40°-50°	1998.4	14.2
50°-60°	2967.7	21.2
60°-70°	3740.8	26.7
70°-80°	2163.3	15.4
80°-90°	240.1	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°	14024.7	100.0
0°-180°	14024.7	100.0

Coefficient of Utilization



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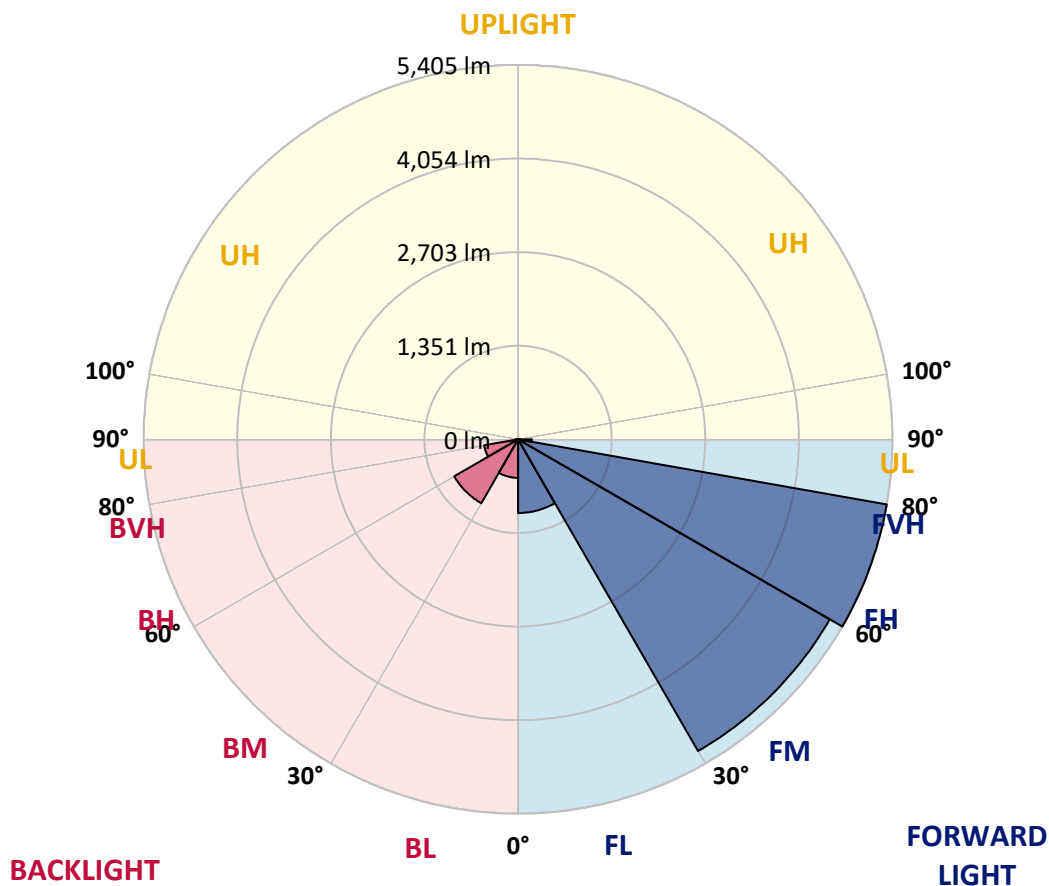
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.2	7.6			
FM (30°-60°)	5196.0	37.0			
FH (60°-80°)	5405.4	38.5			G3/7500
FVH (80°-90°)	199.9	1.4			G2/225
BL (0°-30°)	556.7	4.0	B2/1000		
BM (30°-60°)	1064.8	7.6	B2/2500		
BH (60°-80°)	498.6	3.6	B1/500		G1/500
BVH (80°-90°)	40.1	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°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2396.2	2400.4	2403.5	2407.7	2405.6	2399.4	2404.6	2404.6	2393.1	2380.5	2369.0
5°	2399.4	2404.6	2403.5	2402.5	2394.1	2383.6	2383.6	2377.4	2357.5	2337.6	2318.7
7.5°	2393.1	2392.0	2391.0	2387.8	2378.4	2366.9	2364.8	2352.2	2326.1	2298.9	2271.6
10°	2364.8	2363.8	2366.9	2374.2	2372.1	2361.7	2361.7	2350.1	2319.8	2286.3	2250.7
12.5°	2341.8	2341.8	2354.3	2374.2	2381.6	2377.4	2378.4	2370.0	2335.5	2295.7	2253.8
15°	2344.9	2346.0	2373.2	2405.6	2419.2	2416.1	2417.1	2407.7	2369.0	2329.2	2272.7
17.5°	2365.9	2371.1	2418.2	2463.2	2481.0	2476.8	2469.5	2453.8	2409.8	2364.8	2295.7
20°	2409.8	2418.2	2478.9	2535.4	2556.4	2547.0	2534.4	2503.0	2454.8	2405.6	2320.8
22.5°	2496.7	2501.9	2568.9	2624.4	2641.2	2629.7	2604.5	2559.5	2504.0	2452.7	2351.2
25°	2619.2	2625.5	2689.3	2740.6	2736.4	2722.8	2688.3	2632.8	2566.8	2512.4	2395.2
27.5°	2764.7	2775.2	2838.0	2878.8	2851.6	2831.7	2793.0	2726.0	2651.6	2602.4	2462.2
30°	2923.8	2928.0	2981.4	3022.2	2980.3	2953.1	2906.0	2833.8	2766.8	2730.2	2562.7
32.5°	3077.7	3081.9	3127.9	3151.0	3107.0	3087.1	3046.3	2969.9	2922.8	2902.9	2712.4
35°	3240.0	3238.9	3276.6	3296.5	3251.5	3243.1	3201.2	3142.6	3134.2	3160.4	2931.1
37.5°	3402.2	3392.8	3412.7	3438.9	3413.7	3422.1	3394.9	3375.0	3407.5	3475.5	3222.2
40°	3532.0	3532.0	3553.0	3585.4	3593.8	3630.4	3614.7	3640.9	3745.6	3907.8	3582.3
42.5°	3647.2	3648.2	3692.2	3742.4	3803.2	3859.7	3872.3	3940.3	4157.0	4411.4	4034.5
45°	3767.6	3768.6	3828.3	3901.6	4030.3	4138.1	4163.3	4316.1	4626.0	4935.8	4525.5
47.5°	3906.8	3895.3	3978.0	4100.5	4283.7	4438.6	4503.5	4720.2	5111.7	5492.8	4988.2
50°	4063.8	4039.7	4131.9	4343.3	4569.4	4782.0	4890.8	5138.9	5633.0	6006.8	5423.7
52.5°	4240.7	4227.1	4323.4	4581.0	4926.4	5171.4	5319.0	5644.5	6139.7	6518.7	5769.1
55°	4460.6	4428.1	4567.4	4895.0	5345.2	5657.1	5831.9	6144.9	6693.5	6983.5	6032.9
57.5°	4701.3	4665.8	4852.1	5287.6	5889.5	6231.8	6450.6	6708.1	7214.8	7339.4	6187.9
60°	4961.0	4949.4	5170.3	5748.2	6538.5	6936.3	7094.4	7327.9	7668.1	7545.6	6149.1
62.5°	5198.6	5194.4	5515.8	6247.5	7226.3	7663.9	7789.5	7851.3	7994.7	7532.0	5841.4
65°	5448.8	5484.4	5918.8	6826.4	8014.6	8443.8	8496.1	8339.1	8104.6	7175.0	5211.2
67.5°	5480.2	5549.3	6172.2	7368.7	8762.0	9167.2	9125.3	8524.4	7780.1	6181.6	4084.8
70°	4901.3	5021.7	5768.1	7451.4	9288.6	9586.9	9284.4	8125.6	6602.4	4478.4	2568.9
72.5°	4095.2	4198.9	4858.4	6354.3	8609.2	8989.2	8579.9	6877.7	4665.8	2568.9	1308.5
75°	3187.6	3308.0	3916.2	5051.0	6445.4	6597.2	6392.0	4796.6	2564.8	1059.4	594.6
77.5°	1945.0	2031.9	2505.1	3422.1	4509.8	4282.6	3629.4	2689.3	1125.4	507.7	367.4
80°	860.5	913.9	1234.2	1838.2	2605.6	2463.2	1941.9	1148.4	615.5	322.4	256.5
82.5°	461.7	496.2	608.2	727.6	1144.2	1196.5	970.4	661.6	330.8	184.2	146.6
85°	203.1	223.0	276.4	263.8	375.8	369.5	372.7	454.3	158.1	84.8	95.3
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.5	60.7	15.7	25.1	22.0
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°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2356.4	2337.6	2332.4	2326.1	2314.6	2294.7	2280.0	2263.3	2255.9	2247.6	2248.6
5°	2297.8	2274.8	2252.8	2224.5	2188.9	2149.2	2121.9	2090.5	2073.8	2058.1	2062.3
7.5°	2247.6	2212.0	2167.0	2107.3	2043.4	1972.2	1914.7	1869.7	1839.3	1818.4	1828.8
10°	2216.2	2174.3	2095.8	1998.4	1890.6	1781.7	1699.0	1621.6	1573.4	1535.7	1533.6
12.5°	2209.9	2155.4	2041.3	1900.0	1744.0	1598.5	1477.1	1372.4	1308.5	1261.4	1279.2
15°	2216.2	2147.1	1994.2	1808.9	1612.1	1415.3	1264.6	1144.2	1067.8	1024.9	1021.7
17.5°	2223.5	2138.7	1940.8	1710.5	1473.9	1248.9	1074.1	946.3	867.8	824.9	826.0
20°	2229.8	2126.1	1878.0	1602.7	1333.7	1093.9	912.8	791.4	721.3	689.9	695.1
22.5°	2240.2	2113.6	1811.0	1487.6	1190.3	944.2	785.1	686.7	644.9	623.9	625.0
25°	2260.1	2106.2	1741.9	1361.9	1048.9	824.9	697.2	631.2	605.1	592.5	591.5
27.5°	2300.9	2112.5	1669.7	1240.5	921.2	733.8	640.7	597.7	579.9	571.6	570.5
30°	2369.0	2137.6	1606.9	1117.0	811.3	662.6	601.9	575.8	565.3	558.0	556.9
32.5°	2472.6	2184.7	1538.9	1001.8	722.3	610.3	571.6	558.0	550.6	546.4	546.4
35°	2629.7	2270.6	1471.9	901.3	653.2	569.5	547.5	542.3	536.0	533.9	536.0
37.5°	2855.8	2407.7	1411.1	813.4	604.0	538.1	521.3	523.4	518.2	521.3	524.5
40°	3142.6	2590.9	1359.8	741.2	567.4	515.0	498.3	505.6	502.5	505.6	510.9
42.5°	3505.9	2818.1	1321.1	684.6	541.2	496.2	480.5	487.8	485.7	489.9	495.2
45°	3911.0	3117.5	1303.3	644.9	522.4	482.6	465.8	471.1	469.0	472.1	477.4
47.5°	4299.4	3389.7	1319.0	621.8	506.7	471.1	453.3	455.4	454.3	453.3	456.4
50°	4634.3	3606.4	1364.0	614.5	496.2	459.6	442.8	443.9	440.7	434.4	436.5
52.5°	4907.6	3780.1	1391.2	614.5	491.0	447.0	431.3	432.3	426.1	417.7	418.7
55°	5087.6	3850.3	1369.3	613.4	488.9	436.5	419.8	420.8	414.5	404.1	405.1
57.5°	5138.9	3782.2	1277.1	601.9	486.8	428.2	408.3	410.4	406.2	394.7	394.7
60°	4995.5	3533.1	1108.6	575.8	481.5	422.9	399.9	403.0	400.9	389.4	389.4
62.5°	4619.7	3090.3	907.6	536.0	466.9	416.6	392.6	398.8	404.1	397.8	396.8
65°	3916.2	2475.8	738.0	492.0	448.0	406.2	382.1	397.8	409.3	417.7	417.7
67.5°	2938.5	1772.3	601.9	446.0	419.8	385.2	368.5	383.1	391.5	396.8	399.9
70°	1791.1	1042.6	474.2	392.6	379.0	353.8	341.3	326.6	315.1	313.0	314.1
72.5°	876.2	596.7	385.2	333.9	323.5	300.4	272.2	265.9	260.7	257.5	256.5
75°	482.6	415.6	318.2	277.4	258.6	230.3	224.0	213.6	211.5	207.3	208.3
77.5°	341.3	327.7	262.8	225.1	196.8	182.1	185.3	178.0	178.0	174.8	173.8
80°	256.5	257.5	202.0	164.4	145.5	140.3	143.4	143.4	141.3	140.3	139.2
82.5°	162.3	183.2	136.1	105.7	103.6	104.7	103.6	102.6	104.7	101.5	100.5
85°	112.0	131.9	82.7	62.8	62.8	61.8	63.9	62.8	64.9	61.8	61.8
87.5°	25.1	58.6	30.4	18.8	19.9	18.8	19.9	20.9	23.0	24.1	24.1
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)