

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: P639037

Luminaire Tested: GWS-SA5B-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13054.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

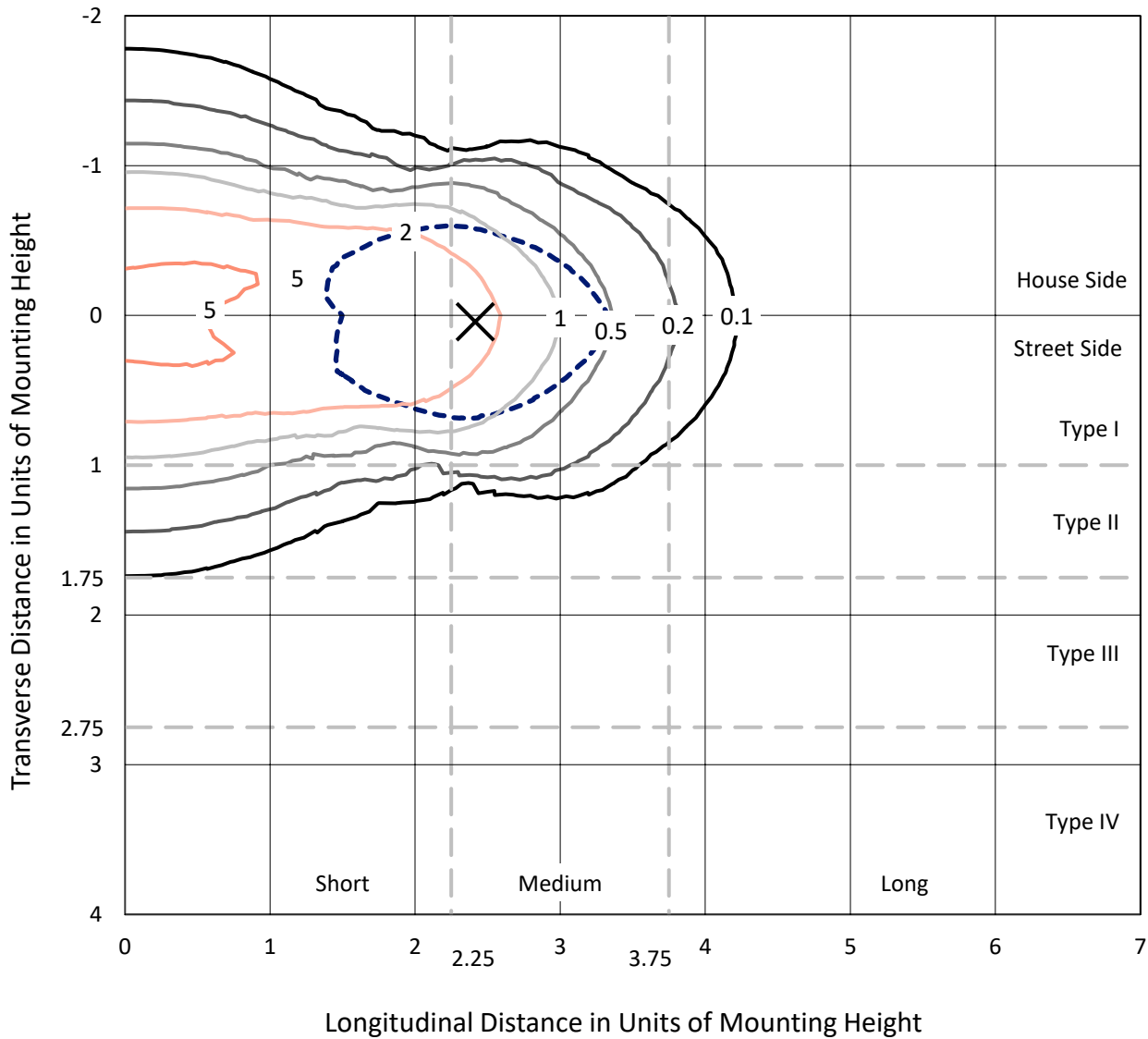
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

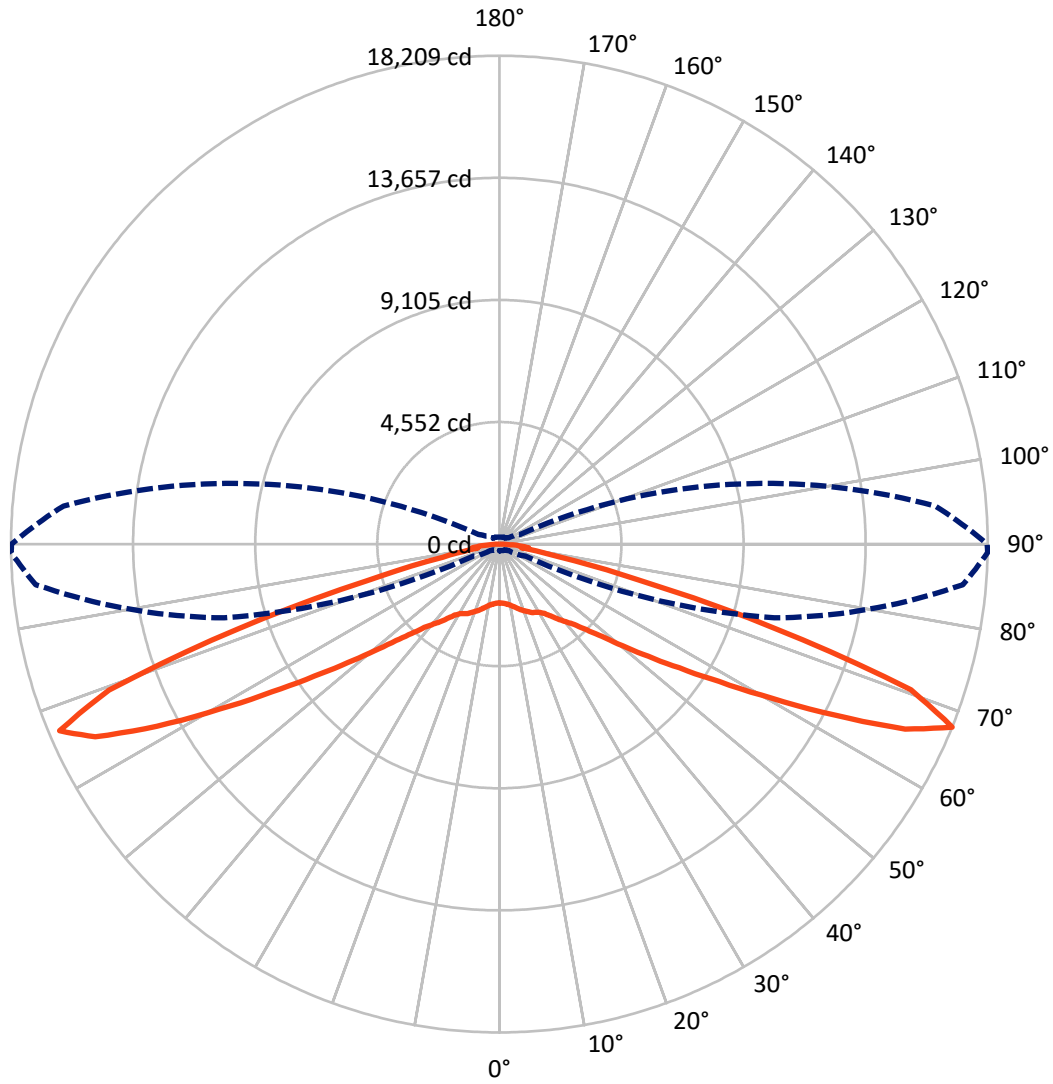
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6470.2	0.0	6470.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6584.7	0.0	6584.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	13054.9	0.0	13054.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.7
10°-20°	715.7	5.5
20°-30°	1209.8	9.3
30°-40°	1660.3	12.7
40°-50°	2117.3	16.2
50°-60°	2656.4	20.3
60°-70°	3203.9	24.5
70°-80°	1159.1	8.9
80°-90°	112.7	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°	13054.9	100.0
0°-180°	13054.9	100.0

Coefficient of Utilization



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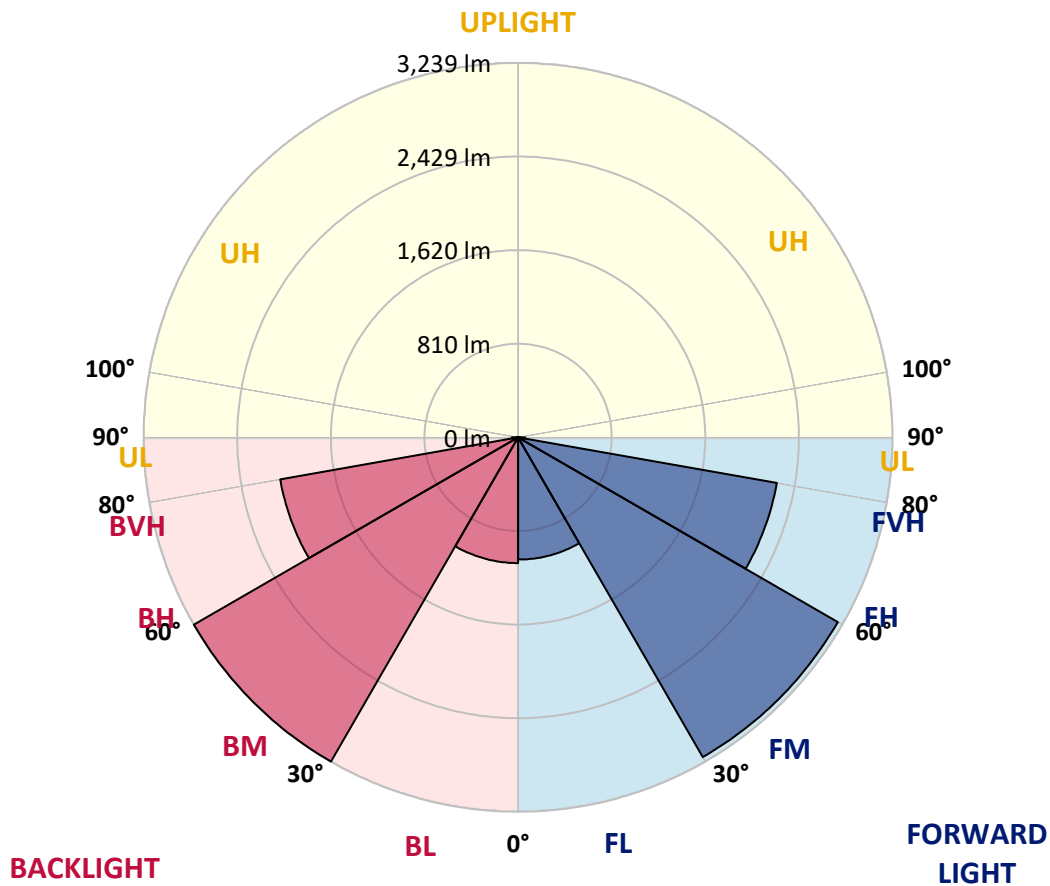
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.3	8.1			
FM (30°-60°)	3194.8	24.5			
FH (60°-80°)	2273.1	17.4			G2/5000
FVH (80°-90°)	59.5	0.5			G1/100
BL (0°-30°)	1087.9	8.3	B3/2500		
BM (30°-60°)	3239.2	24.8	B3/5000		
BH (60°-80°)	2089.9	16.0	B3/2500		G3/2500
BVH (80°-90°)	53.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2197.7	2195.8	2191.2	2205.2	2202.4	2203.3	2209.0	2205.2	2198.7	2187.4	2203.3
5°	2259.6	2258.7	2248.4	2256.8	2247.4	2240.9	2239.9	2230.5	2223.0	2210.8	2227.7
7.5°	2319.6	2318.7	2310.2	2325.2	2317.7	2310.2	2301.8	2283.0	2265.2	2247.4	2266.2
10°	2365.6	2364.6	2362.7	2384.3	2386.2	2389.0	2385.2	2353.4	2322.4	2300.9	2319.6
12.5°	2391.8	2394.6	2399.3	2438.7	2458.4	2477.1	2481.8	2455.6	2404.0	2373.1	2395.6
15°	2374.0	2379.6	2403.1	2474.3	2528.7	2570.9	2588.7	2567.1	2500.6	2449.0	2474.3
17.5°	2288.7	2293.4	2339.3	2448.1	2568.1	2665.6	2694.6	2681.5	2607.5	2544.6	2569.0
20°	2170.5	2180.8	2230.5	2382.4	2561.5	2731.2	2809.0	2804.3	2723.7	2627.1	2656.2
22.5°	2063.6	2075.8	2128.3	2296.2	2517.4	2748.1	2924.4	2936.5	2829.7	2709.6	2733.1
25°	1943.6	1954.9	2022.4	2194.0	2441.5	2735.0	3022.8	3078.1	2949.7	2804.3	2825.9
27.5°	1820.8	1829.2	1895.8	2078.6	2342.1	2710.6	3100.6	3233.8	3067.8	2870.0	2885.0
30°	1713.0	1724.2	1785.2	1963.3	2233.4	2661.8	3164.4	3399.7	3203.8	2944.0	2956.2
32.5°	1608.9	1618.3	1684.9	1849.9	2118.0	2586.8	3221.6	3594.7	3405.3	3081.9	3081.9
35°	1477.6	1494.5	1569.5	1741.1	2009.3	2487.4	3262.8	3821.6	3681.0	3285.3	3286.3
37.5°	1356.7	1366.1	1444.8	1618.3	1894.9	2374.9	3266.6	4057.0	4029.8	3544.1	3546.0
40°	1218.9	1231.1	1315.4	1487.0	1763.6	2256.8	3231.0	4276.4	4395.4	3810.4	3800.1
42.5°	1079.2	1097.0	1177.6	1345.4	1622.0	2112.4	3136.3	4485.5	4859.6	4118.9	4093.5
45°	944.2	955.4	1036.0	1194.5	1459.8	1939.9	2984.4	4686.1	5410.9	4587.7	4551.1
47.5°	792.3	797.0	880.4	1032.3	1292.0	1747.7	2766.8	4865.2	6016.5	5208.3	5145.5
50°	657.3	663.8	729.4	859.8	1086.7	1519.8	2495.9	4970.2	6788.2	6055.0	5946.2
52.5°	531.6	538.2	590.7	694.8	898.2	1260.1	2160.2	4945.8	7571.1	7106.0	6947.6
55°	429.4	434.1	469.7	551.3	706.9	1002.3	1763.6	4727.4	8440.2	8478.7	8137.4
57.5°	362.8	364.7	389.1	438.8	552.2	772.6	1361.4	4211.7	9351.6	10230.1	9669.4
60°	324.4	325.3	336.6	367.5	436.0	589.7	997.6	3390.3	10295.7	12421.3	11652.4
62.5°	300.0	300.0	309.4	327.2	361.9	453.8	733.2	2434.9	10973.6	14805.6	14041.4
65°	276.6	276.6	283.2	298.2	316.9	370.4	550.4	1570.5	11306.5	16798.9	16629.2
67.5°	246.6	247.5	252.2	268.2	285.0	309.4	417.2	1062.3	10615.5	17350.2	18209.0
70°	218.5	219.4	226.0	236.3	250.3	267.2	326.3	732.3	7726.7	14450.2	16281.3
72.5°	187.5	191.3	196.0	207.2	215.6	227.8	266.3	474.4	4495.8	9295.3	10762.7
75°	153.8	158.5	164.1	175.3	181.0	185.6	219.4	338.5	2163.0	4710.5	5364.0
77.5°	119.1	123.8	130.3	140.6	144.4	150.0	167.8	244.7	1036.0	2088.0	2251.2
80°	79.7	81.6	87.2	99.4	105.9	109.7	123.8	166.9	450.0	838.2	830.7
82.5°	48.8	49.7	51.6	59.1	61.9	65.6	80.6	102.2	214.7	952.6	1092.3
85°	17.8	16.9	15.9	20.6	24.4	28.1	37.5	51.6	93.8	654.4	732.3
87.5°	0.0	0.0	0.0	0.9	1.9	1.9	3.8	7.5	22.5	244.7	167.8
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°	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2198.7	2188.3	2201.5	2210.8	2231.5	2239.0	2240.9	2234.3	2234.3	2223.0	2224.9
5°	2224.0	2217.4	2239.0	2254.9	2284.9	2296.2	2303.7	2299.0	2301.8	2294.3	2296.2
7.5°	2262.4	2256.8	2294.3	2325.2	2356.2	2369.3	2375.9	2372.1	2373.1	2363.7	2366.5
10°	2315.9	2317.7	2362.7	2403.1	2444.3	2457.4	2460.2	2449.0	2439.6	2422.7	2423.7
12.5°	2389.0	2398.4	2462.1	2507.1	2549.3	2568.1	2547.4	2506.2	2467.8	2438.7	2434.9
15°	2468.7	2485.6	2577.4	2634.6	2680.6	2671.2	2610.3	2517.4	2441.5	2398.4	2389.9
17.5°	2564.3	2589.6	2705.0	2773.4	2812.8	2752.8	2625.3	2486.5	2380.6	2322.4	2311.2
20°	2654.3	2694.6	2840.0	2929.0	2933.7	2798.7	2618.7	2423.7	2290.5	2219.3	2204.3
22.5°	2736.8	2788.4	2981.6	3095.0	3034.1	2819.3	2578.4	2334.6	2181.8	2098.3	2085.2
25°	2826.8	2900.0	3146.6	3252.5	3134.4	2810.9	2494.0	2224.0	2050.5	1965.2	1955.8
27.5°	2888.7	2980.6	3312.5	3413.8	3216.9	2763.1	2385.2	2103.0	1930.5	1849.9	1836.7
30°	2960.0	3077.2	3495.4	3589.1	3267.5	2692.8	2269.0	1990.5	1818.9	1731.7	1722.4
32.5°	3089.4	3236.6	3722.3	3774.8	3283.5	2605.6	2157.4	1881.8	1702.7	1615.5	1602.4
35°	3297.5	3470.0	4041.0	3982.0	3271.3	2509.9	2051.5	1754.2	1583.6	1502.0	1488.9
37.5°	3560.0	3774.8	4396.4	4168.5	3237.5	2404.9	1925.8	1647.4	1476.7	1394.2	1386.7
40°	3804.8	4069.2	4794.9	4329.8	3169.1	2275.5	1804.9	1535.8	1361.4	1274.2	1257.3
42.5°	4111.4	4463.0	5256.2	4469.5	3056.6	2120.8	1668.9	1398.0	1217.0	1138.2	1117.6
45°	4577.3	5014.3	5792.5	4603.6	2888.7	1930.5	1498.3	1230.1	1058.5	977.9	962.0
47.5°	5158.6	5703.4	6373.8	4683.3	2633.7	1729.9	1305.1	1052.9	881.3	790.4	782.9
50°	5975.3	6705.7	6997.3	4669.2	2348.7	1491.7	1087.6	842.0	698.5	632.9	622.6
52.5°	6970.1	7963.9	7671.4	4500.5	2045.8	1220.7	847.6	661.0	554.1	507.2	498.8
55°	8218.0	9470.6	8381.2	4138.5	1663.3	934.8	665.7	521.3	448.2	420.0	416.3
57.5°	9763.2	11421.8	9064.7	3529.1	1250.8	713.5	512.9	430.4	395.7	378.8	377.9
60°	11802.4	13492.9	9658.2	2742.5	895.4	545.7	423.8	384.4	357.2	346.0	345.0
62.5°	14227.1	15373.7	10027.6	1867.7	673.2	435.0	373.2	348.8	332.8	326.3	325.3
65°	16719.2	16562.6	9851.3	1223.6	511.0	369.4	334.7	321.6	307.5	301.0	301.0
67.5°	18191.2	16311.3	8498.4	849.5	405.0	324.4	301.9	289.7	266.3	260.7	260.7
70°	16112.6	13217.3	5570.3	621.6	328.2	284.1	262.5	245.6	236.3	230.6	229.7
72.5°	10656.7	8600.6	2961.9	431.3	273.8	241.9	222.2	215.6	204.4	198.8	197.8
75°	5304.0	4517.3	1518.0	311.3	227.8	194.1	185.6	182.8	173.5	166.0	164.1
77.5°	2210.8	2011.1	707.9	226.0	173.5	156.6	149.1	149.1	138.8	130.3	126.6
80°	833.5	742.6	334.7	154.7	128.5	116.3	111.6	107.8	99.4	89.1	83.4
82.5°	1114.8	728.5	164.1	96.6	84.4	75.0	68.4	65.6	60.9	56.3	52.5
85°	721.9	517.6	74.1	49.7	42.2	31.9	28.1	26.3	23.4	20.6	18.8
87.5°	147.2	173.5	22.5	9.4	5.6	2.8	2.8	0.9	0.0	0.0	0.0
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)