

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: P641735

Luminaire Tested: GWS-SA6B-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15859.5 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

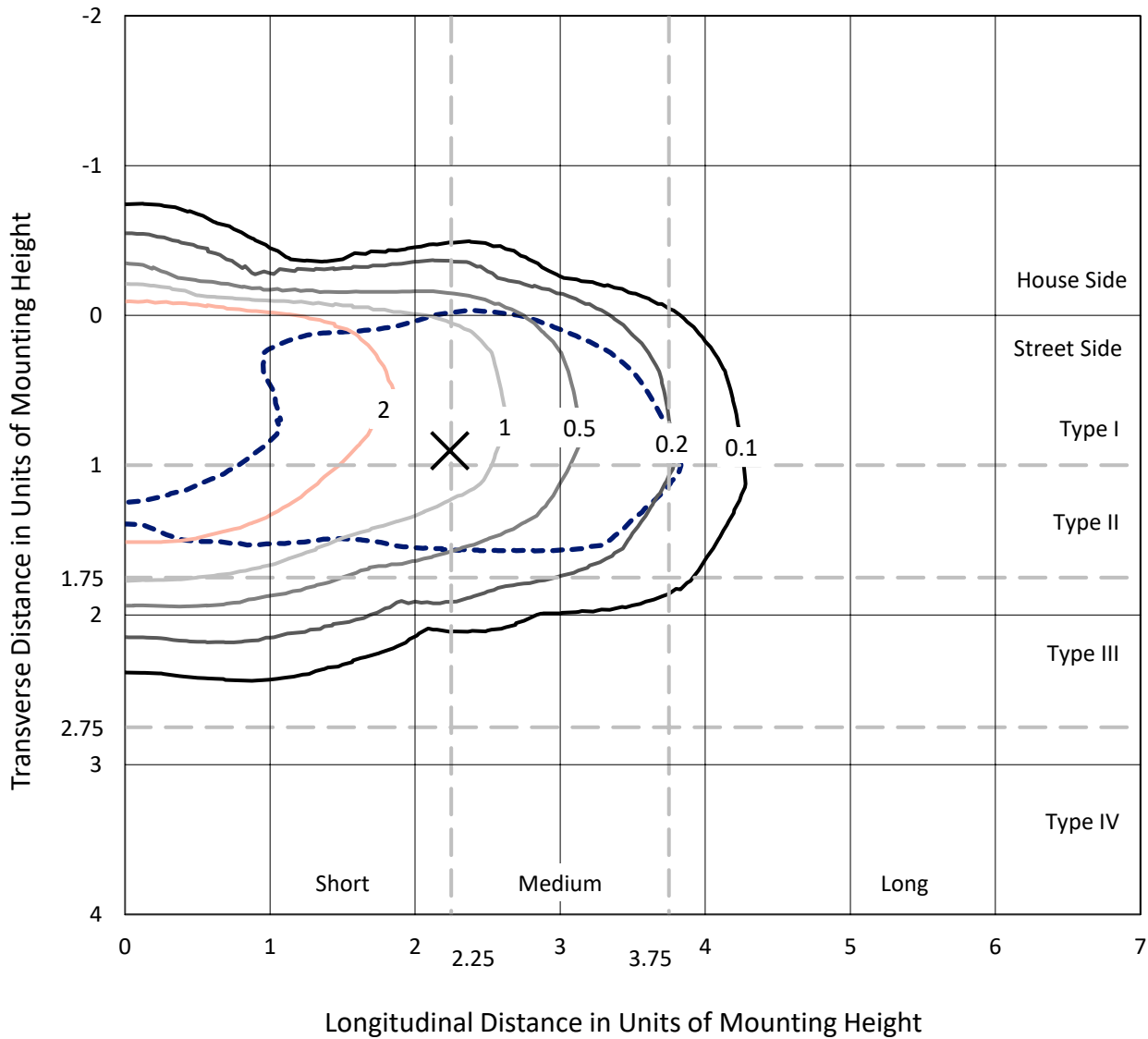
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

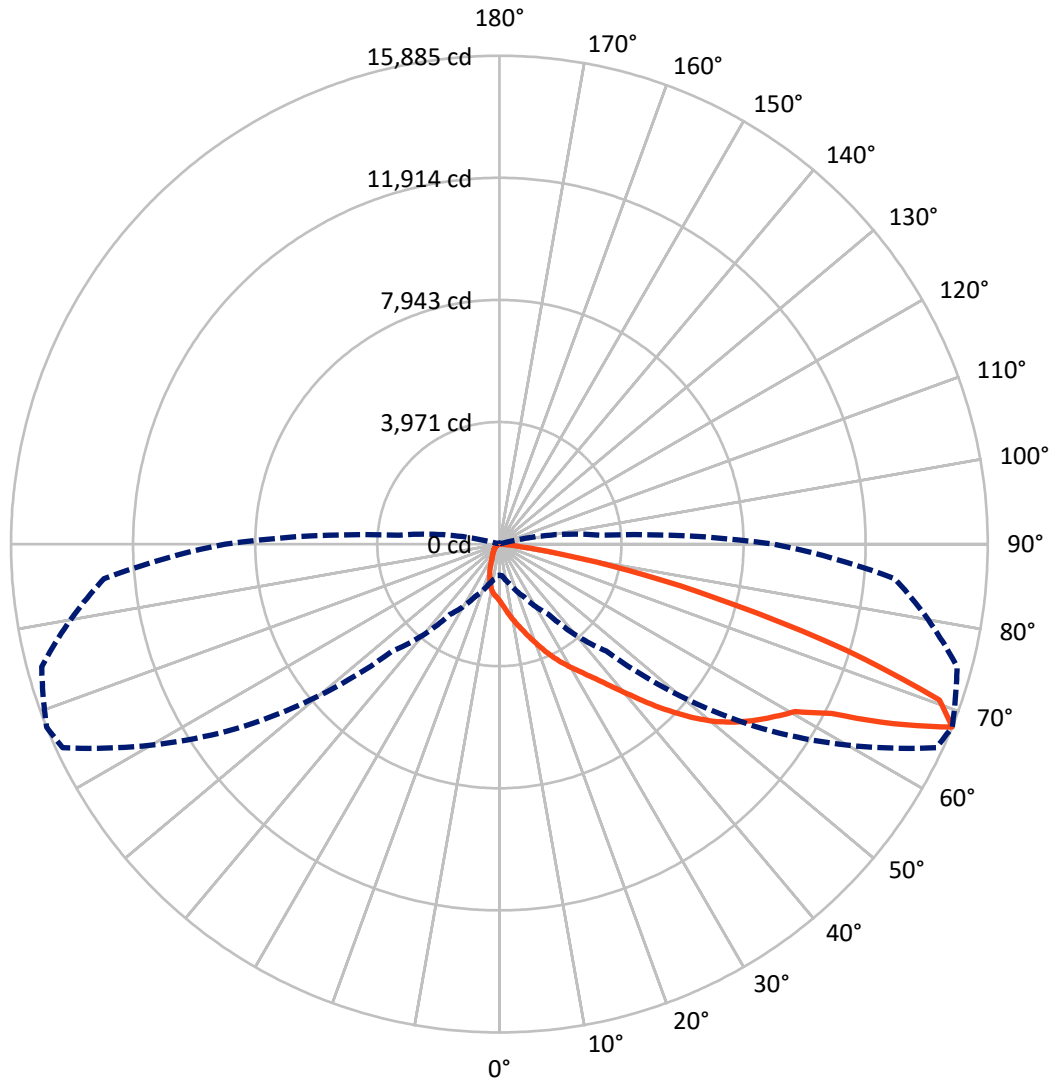
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.2	0.0	1145.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14714.3	0.0	14714.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	15859.5	0.0	15859.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.1
10°-20°	516.9	3.3
20°-30°	888.3	5.6
30°-40°	1544.5	9.7
40°-50°	2694.9	17.0
50°-60°	4064.7	25.6
60°-70°	4075.8	25.7
70°-80°	1798.2	11.3
80°-90°	96.1	0.6
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°	15859.5	100.0
0°-180°	15859.5	100.0

Coefficient of Utilization



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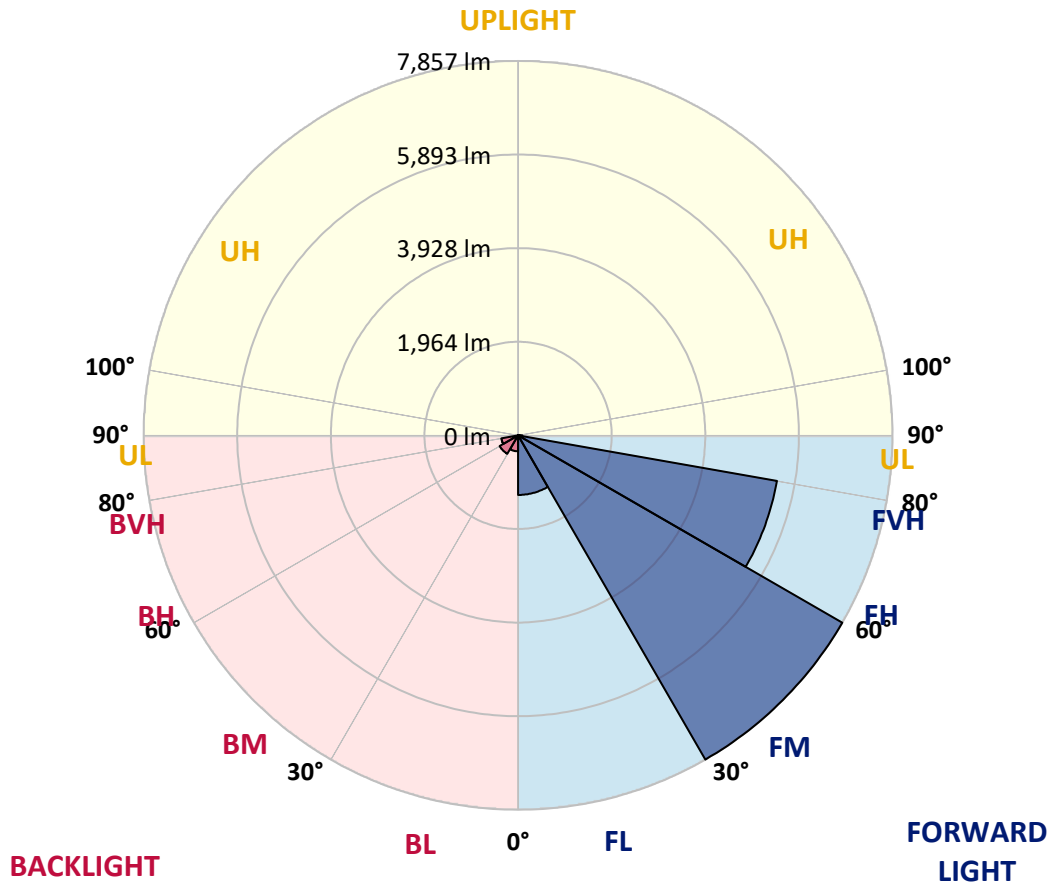
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.2	7.9			
FM (30°-60°)	7856.8	49.5			
FH (60°-80°)	5516.7	34.8			G3/7500
FVH (80°-90°)	90.6	0.6			G1/100
BL (0°-30°)	335.0	2.1	B1/500		
BM (30°-60°)	447.4	2.8	B1/1000		
BH (60°-80°)	357.4	2.3	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	2149.2	2162.9	2149.2	2152.2	2112.8	2094.6	2055.1	2000.5	1986.8	1951.9	1898.8
5°	2411.8	2423.9	2410.3	2407.2	2361.7	2328.3	2263.0	2168.9	2141.6	2073.3	1968.6
7.5°	2554.5	2562.0	2566.6	2574.2	2557.5	2530.2	2471.0	2354.1	2325.3	2214.5	2067.2
10°	2569.6	2575.7	2598.5	2644.0	2677.4	2694.1	2660.7	2552.9	2507.4	2399.6	2188.7
12.5°	2527.1	2536.2	2572.7	2648.6	2741.1	2826.1	2847.4	2753.3	2712.3	2574.2	2331.3
15°	2471.0	2478.6	2528.7	2631.9	2771.5	2927.8	3015.9	2974.9	2929.4	2785.2	2489.2
17.5°	2384.5	2395.1	2464.9	2604.5	2785.2	3008.3	3198.0	3211.7	3179.8	3023.5	2663.7
20°	2335.9	2343.5	2405.7	2549.9	2776.1	3067.5	3368.0	3497.0	3462.1	3298.2	2864.1
22.5°	2376.9	2382.9	2423.9	2536.2	2745.7	3100.9	3525.8	3782.4	3762.6	3592.6	3075.1
25°	2592.4	2612.1	2587.8	2607.6	2759.4	3119.1	3653.3	4067.7	4072.3	3900.7	3293.6
27.5°	3029.5	3003.7	2946.0	2847.4	2865.6	3167.6	3762.6	4336.3	4375.8	4201.3	3487.9
30°	3474.2	3459.1	3424.2	3270.9	3143.4	3275.4	3855.2	4611.1	4673.3	4497.2	3660.9
32.5°	3973.6	3988.8	3926.5	3742.9	3525.8	3494.0	3950.8	4872.1	4989.0	4832.7	3864.3
35°	4570.1	4574.6	4451.7	4248.3	4002.4	3855.2	4122.3	5160.5	5376.0	5260.7	4136.0
37.5°	5151.4	5178.7	5111.9	4791.7	4573.1	4304.5	4406.2	5530.9	5834.4	5788.9	4477.5
40°	5665.9	5708.4	5687.2	5377.6	5090.7	4864.5	4846.3	5964.9	6388.4	6440.0	4928.3
42.5°	6075.7	6103.1	6119.8	5899.7	5646.2	5518.7	5389.7	6468.9	7042.6	7253.6	5480.8
45°	6508.3	6517.4	6552.3	6403.6	6182.0	6192.6	6031.7	7080.5	7731.7	8155.1	6115.2
47.5°	7059.3	7089.6	7072.9	6916.6	6716.3	6836.2	6695.0	7710.4	8411.6	9117.4	6764.8
50°	7730.1	7762.0	7746.8	7564.7	7341.6	7391.7	7303.6	8322.1	9067.3	10025.1	7305.2
52.5°	8076.2	8102.0	8290.2	8372.2	8255.3	7936.6	7822.7	8994.5	9621.3	10771.8	7801.5
55°	7909.2	7927.5	8337.3	8683.3	9111.3	8792.6	8344.9	9513.6	10110.1	11354.6	8170.3
57.5°	7217.1	7315.8	7872.8	8458.7	9358.7	9638.0	9191.8	10078.2	10580.6	11759.9	8533.1
60°	5798.0	5793.4	6591.8	7643.6	8876.1	9870.2	10387.8	10841.6	11052.6	12071.0	9018.8
62.5°	3204.1	3232.9	4295.4	5681.1	7534.3	9269.2	11284.8	12160.6	12128.7	12614.4	9779.2
65°	1595.2	1652.9	2229.6	3254.2	5013.3	7660.3	11439.6	14173.2	14082.1	13893.9	11350.1
67.5°	1012.4	1035.1	1353.9	1891.2	2786.7	4923.7	10475.8	15674.3	15885.3	15411.7	12908.9
70°	655.7	693.6	941.0	1293.2	1681.7	2537.8	7674.0	14701.4	15185.6	15244.8	11937.5
72.5°	356.7	384.0	601.0	922.8	1214.2	1268.9	4310.5	11032.9	11811.5	12931.6	9339.0
75°	203.4	223.1	329.4	626.9	890.9	772.6	1910.9	7385.6	7881.9	9241.9	6692.0
77.5°	122.9	139.6	185.2	305.1	558.5	516.1	722.5	4495.7	4811.4	5514.2	3512.2
80°	56.2	66.8	116.9	168.5	305.1	244.4	276.2	2096.1	2164.4	2263.0	1162.6
82.5°	25.8	30.4	53.1	100.2	173.0	141.2	106.2	484.2	681.5	645.1	296.0
85°	3.0	3.0	19.7	41.0	48.6	36.4	44.0	109.3	138.1	194.3	85.0
87.5°	0.0	0.0	1.5	1.5	3.0	4.6	9.1	13.7	19.7	31.9	21.2
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°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1874.5	1832.0	1794.0	1737.9	1699.9	1657.4	1628.6	1593.7	1580.0	1569.4	1554.2
5°	1917.0	1848.7	1756.1	1652.9	1567.9	1487.4	1413.1	1364.5	1322.0	1315.9	1294.7
7.5°	1986.8	1885.1	1728.8	1560.3	1416.1	1282.5	1177.8	1092.8	1050.3	1036.7	1012.4
10°	2079.4	1939.7	1687.8	1429.8	1221.8	1062.5	944.1	848.4	781.7	757.4	739.2
12.5°	2182.6	1989.8	1622.5	1268.9	1032.1	850.0	699.7	598.0	555.5	540.3	526.7
15°	2301.0	2036.9	1519.3	1108.0	846.9	625.3	519.1	475.1	456.9	452.3	447.8
17.5°	2414.8	2067.2	1396.4	941.0	651.1	485.7	435.6	418.9	414.4	409.8	406.8
20°	2543.8	2088.5	1252.2	783.2	505.4	411.3	387.0	374.9	365.8	356.7	355.2
22.5°	2675.9	2088.5	1095.9	628.4	423.5	368.8	341.5	318.7	302.0	292.9	289.9
25°	2801.9	2059.7	941.0	502.4	373.4	327.8	292.9	267.1	244.4	233.7	230.7
27.5°	2891.4	1985.3	806.0	425.0	338.5	291.4	248.9	220.1	201.9	191.2	189.7
30°	2947.6	1874.5	681.5	379.4	308.1	253.5	211.0	186.7	173.0	165.4	162.4
32.5°	2990.1	1737.9	570.7	347.6	279.3	220.1	183.7	163.9	151.8	145.7	144.2
35°	3075.1	1608.9	488.7	318.7	248.9	192.8	160.9	145.7	136.6	129.0	127.5
37.5°	3193.4	1501.1	423.5	292.9	220.1	171.5	145.7	132.0	124.5	116.9	115.4
40°	3368.0	1432.8	374.9	267.1	194.3	154.8	133.6	121.4	110.8	103.2	101.7
42.5°	3636.6	1400.9	343.0	241.3	171.5	139.6	122.9	107.8	97.1	89.6	88.0
45°	3956.9	1417.6	315.7	215.5	156.3	129.0	109.3	94.1	83.5	75.9	74.4
47.5°	4299.9	1476.8	292.9	191.2	141.2	118.4	97.1	80.4	71.3	63.7	62.2
50°	4658.1	1574.0	273.2	168.5	129.0	106.2	83.5	69.8	60.7	54.6	53.1
52.5°	4969.3	1706.0	253.5	151.8	118.4	94.1	72.9	60.7	51.6	45.5	44.0
55°	5266.8	1830.5	238.3	136.6	106.2	82.0	63.7	51.6	44.0	37.9	36.4
57.5°	5590.1	1962.5	220.1	122.9	95.6	72.9	56.2	44.0	37.9	31.9	30.4
60°	6060.6	2158.3	192.8	112.3	83.5	63.7	48.6	39.5	33.4	25.8	24.3
62.5°	6739.0	2515.0	162.4	97.1	71.3	54.6	41.0	33.4	27.3	21.2	18.2
65°	8007.9	3122.1	133.6	80.4	57.7	45.5	34.9	27.3	21.2	15.2	13.7
67.5°	8921.6	3280.0	107.8	65.3	47.1	34.9	28.8	21.2	15.2	10.6	9.1
70°	7800.0	2355.6	83.5	53.1	39.5	27.3	22.8	16.7	10.6	7.6	6.1
72.5°	5876.9	1539.0	62.2	41.0	30.4	22.8	16.7	13.7	9.1	6.1	4.6
75°	4142.1	889.4	45.5	30.4	21.2	16.7	13.7	10.6	7.6	4.6	4.6
77.5°	2123.4	367.3	31.9	21.2	15.2	10.6	9.1	6.1	6.1	4.6	3.0
80°	645.1	121.4	18.2	13.7	10.6	7.6	4.6	4.6	4.6	3.0	1.5
82.5°	147.2	39.5	10.6	10.6	7.6	6.1	4.6	1.5	1.5	0.0	0.0
85°	37.9	12.1	9.1	7.6	7.6	6.1	3.0	1.5	0.0	0.0	0.0
87.5°	13.7	7.6	7.6	7.6	6.1	4.6	3.0	0.0	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)