

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: P641680

Luminaire Tested: GWS-SA6B-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641680
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15642.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

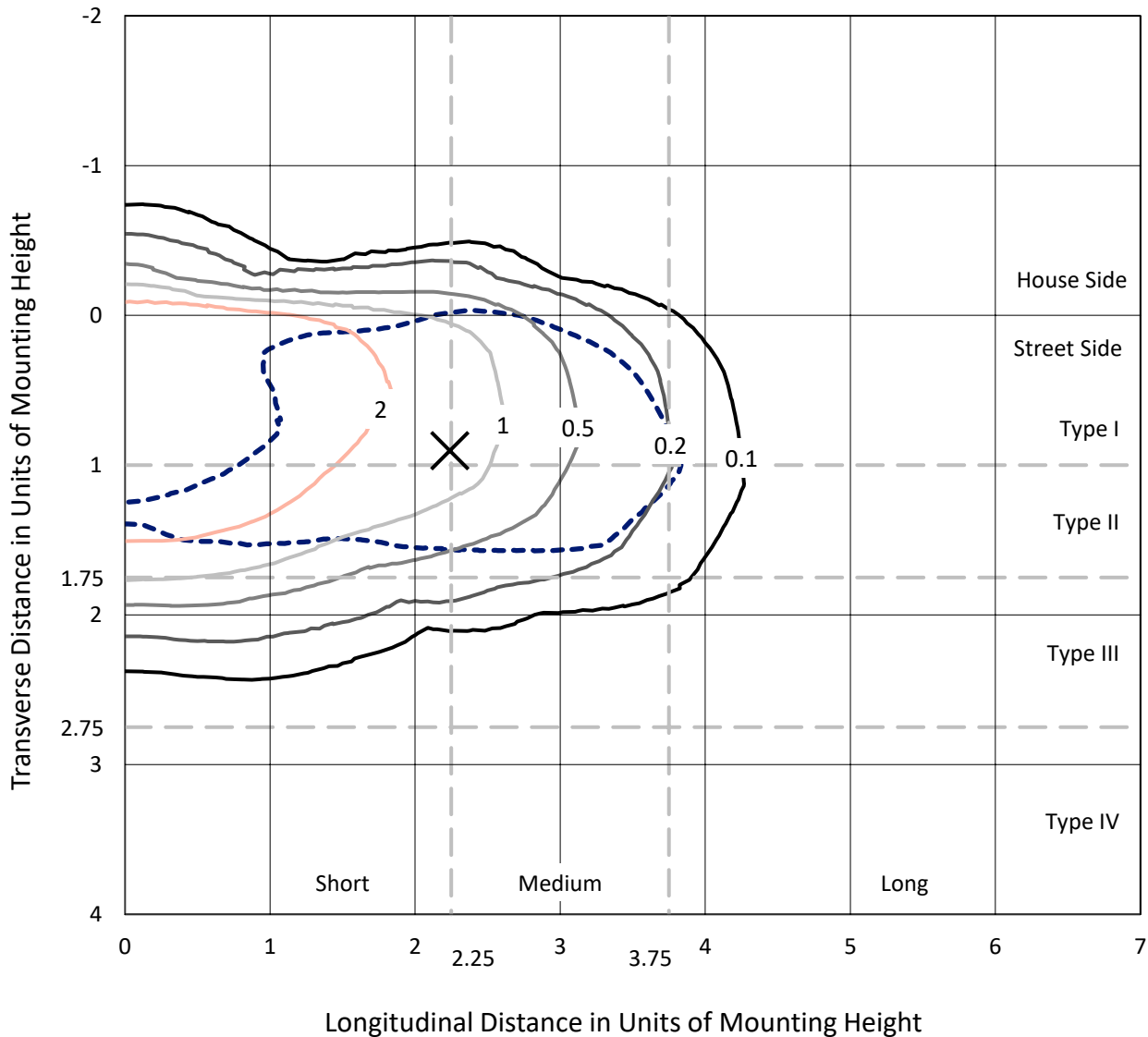
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

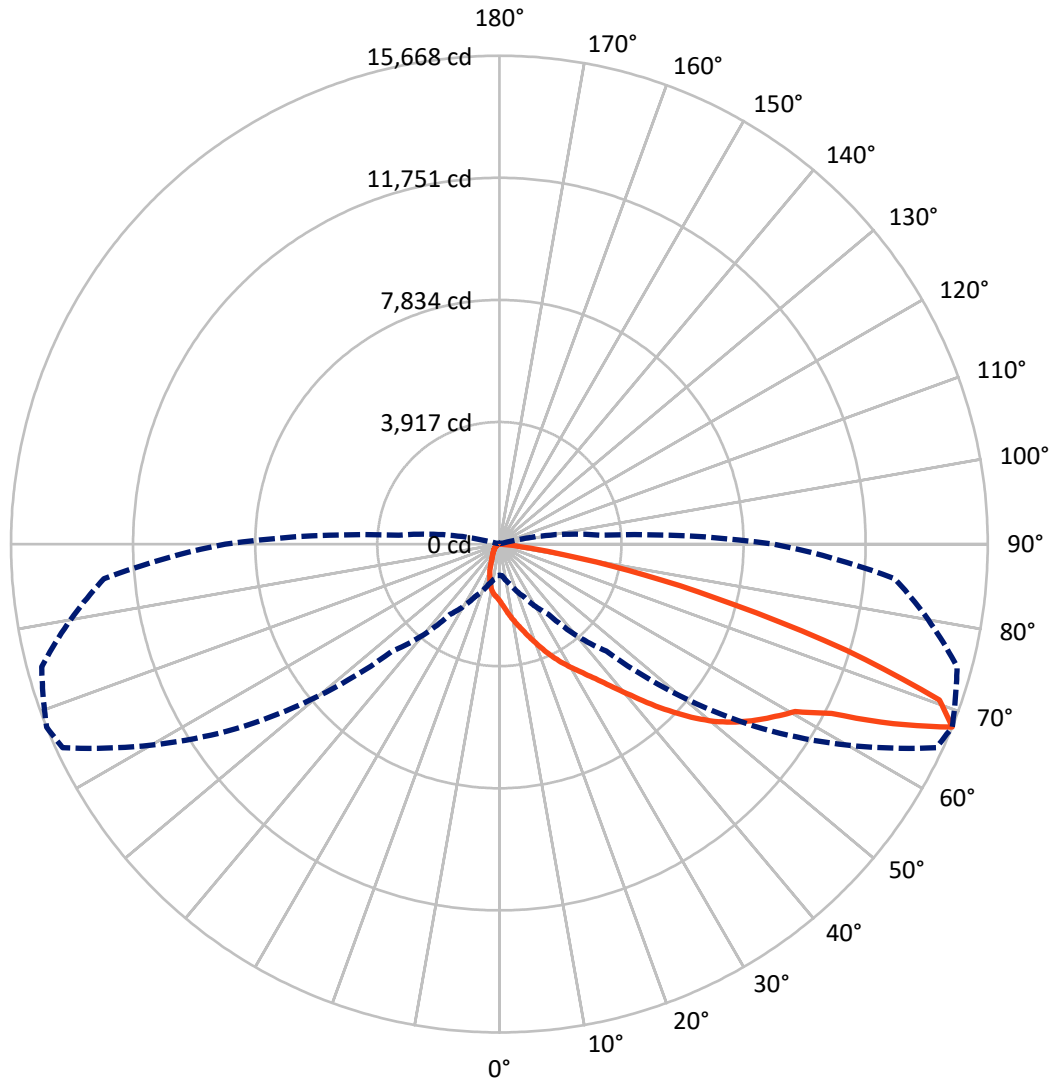
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1129.6	0.0	1129.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14512.6	0.0	14512.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	15642.1	0.0	15642.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	1.1
10°-20°	509.8	3.3
20°-30°	876.2	5.6
30°-40°	1523.3	9.7
40°-50°	2658.0	17.0
50°-60°	4009.0	25.6
60°-70°	4019.9	25.7
70°-80°	1773.6	11.3
80°-90°	94.8	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°	15642.1	100.0
0°-180°	15642.1	100.0

Coefficient of Utilization



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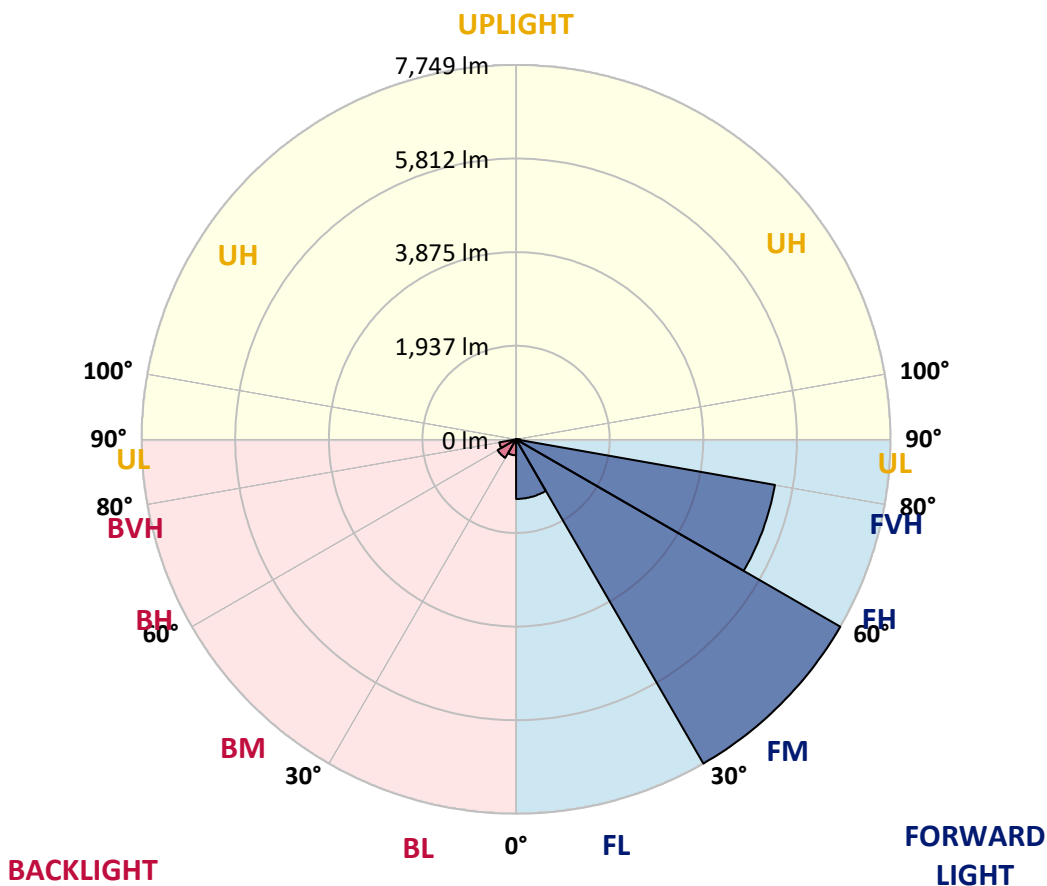
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.1	7.9			
FM (30°-60°)	7749.1	49.5			
FH (60°-80°)	5441.0	34.8			G3/7500
FVH (80°-90°)	89.4	0.6			G1/100
BL (0°-30°)	330.5	2.1	B1/500		
BM (30°-60°)	441.2	2.8	B1/1000		
BH (60°-80°)	352.5	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°	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3
2.5°	2119.7	2133.2	2119.7	2122.7	2083.8	2065.8	2026.9	1973.0	1959.6	1925.1	1872.7
5°	2378.7	2390.7	2377.2	2374.2	2329.3	2296.4	2232.0	2139.2	2112.3	2044.9	1941.6
7.5°	2519.4	2526.9	2531.4	2538.9	2522.4	2495.5	2437.1	2321.8	2293.4	2184.1	2038.9
10°	2534.4	2540.4	2562.9	2607.8	2640.7	2657.2	2624.2	2517.9	2473.0	2366.7	2158.7
12.5°	2492.5	2501.5	2537.4	2612.3	2703.6	2787.4	2808.4	2715.5	2675.1	2538.9	2299.4
15°	2437.1	2444.6	2494.0	2595.8	2733.5	2887.7	2974.5	2934.1	2889.2	2747.0	2455.1
17.5°	2351.8	2362.3	2431.1	2568.8	2747.0	2967.0	3154.2	3167.6	3136.2	2982.0	2627.2
20°	2303.9	2311.4	2372.7	2514.9	2738.0	3025.4	3321.8	3449.1	3414.6	3253.0	2824.8
22.5°	2344.3	2350.3	2390.7	2501.5	2708.1	3058.4	3477.5	3730.5	3711.0	3543.4	3032.9
25°	2556.9	2576.3	2552.4	2571.8	2721.5	3076.3	3603.3	4011.9	4016.4	3847.3	3248.5
27.5°	2988.0	2962.5	2905.7	2808.4	2826.3	3124.2	3711.0	4276.9	4315.8	4143.7	3440.1
30°	3426.6	3411.6	3377.2	3226.0	3100.3	3230.5	3802.4	4547.9	4609.2	4435.6	3610.7
32.5°	3919.1	3934.1	3872.7	3691.6	3477.5	3446.1	3896.7	4805.3	4920.6	4766.4	3811.3
35°	4507.4	4511.9	4390.7	4190.1	3947.6	3802.4	4065.8	5089.8	5302.3	5188.6	4079.3
37.5°	5080.8	5107.7	5041.9	4726.0	4510.4	4245.5	4345.8	5455.0	5754.4	5709.5	4416.1
40°	5588.3	5630.2	5609.2	5303.8	5020.9	4797.9	4779.9	5883.2	6300.8	6351.7	4860.7
42.5°	5992.5	6019.4	6035.9	5818.8	5568.8	5443.1	5315.8	6380.2	6946.0	7154.1	5405.6
45°	6419.1	6428.1	6462.5	6315.8	6097.2	6107.7	5949.0	6983.5	7625.7	8043.3	6031.4
47.5°	6962.5	6992.5	6976.0	6821.8	6624.2	6742.5	6603.2	7604.7	8296.3	8992.4	6672.1
50°	7624.2	7655.6	7640.6	7461.0	7241.0	7290.4	7203.5	8208.0	8943.0	9887.6	7205.0
52.5°	7965.5	7990.9	8176.6	8257.4	8142.1	7827.8	7715.5	8871.2	9489.4	10624.2	7694.5
55°	7800.8	7818.8	8223.0	8564.3	8986.4	8672.1	8230.5	9383.1	9971.5	11199.0	8058.3
57.5°	7118.2	7215.5	7764.9	8342.7	9230.5	9505.9	9065.8	9940.0	10435.5	11598.7	8416.1
60°	5718.5	5714.0	6501.4	7538.9	8754.4	9734.9	10245.4	10693.0	10901.1	11905.6	8895.1
62.5°	3160.2	3188.6	4236.5	5603.2	7431.1	9142.1	11130.1	11993.9	11962.5	12441.5	9645.1
65°	1573.3	1630.2	2199.1	3209.6	4944.6	7555.3	11282.8	13978.9	13889.1	13703.5	11194.5
67.5°	998.5	1020.9	1335.3	1865.3	2748.5	4856.2	10332.2	15459.4	15667.5	15200.5	12731.9
70°	646.7	684.1	928.1	1275.4	1658.7	2503.0	7568.8	14499.9	14977.4	15035.8	11773.8
72.5°	351.8	378.7	592.8	910.2	1197.6	1251.5	4251.5	10881.6	11649.6	12754.4	9211.0
75°	200.6	220.1	324.8	618.3	878.7	762.0	1884.7	7284.4	7773.9	9115.2	6600.2
77.5°	121.3	137.7	182.6	300.9	550.9	509.0	712.6	4434.1	4745.5	5438.6	3464.0
80°	55.4	65.9	115.3	166.2	300.9	241.0	272.5	2067.3	2134.7	2232.0	1146.7
82.5°	25.4	29.9	52.4	98.8	170.7	139.2	104.8	477.5	672.1	636.2	291.9
85°	3.0	3.0	19.5	40.4	47.9	35.9	43.4	107.8	136.2	191.6	83.8
87.5°	0.0	0.0	1.5	1.5	3.0	4.5	9.0	13.5	19.5	31.4	21.0
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°	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3	1820.3
2.5°	1848.8	1806.9	1769.4	1714.1	1676.6	1634.7	1606.3	1571.8	1558.4	1547.9	1532.9
5°	1890.7	1823.3	1732.0	1630.2	1546.4	1467.1	1393.7	1345.8	1303.9	1297.9	1276.9
7.5°	1959.6	1859.3	1705.1	1538.9	1396.7	1265.0	1161.7	1077.8	1035.9	1022.4	998.5
10°	2050.9	1913.2	1664.7	1410.2	1205.1	1047.9	931.1	836.8	771.0	747.0	729.0
12.5°	2152.7	1962.6	1600.3	1251.5	1018.0	838.3	690.1	589.8	547.9	532.9	519.5
15°	2269.4	2009.0	1498.5	1092.8	835.3	616.8	512.0	468.6	450.6	446.1	441.6
17.5°	2381.7	2038.9	1377.2	928.1	642.2	479.0	429.6	413.2	408.7	404.2	401.2
20°	2509.0	2059.9	1235.0	772.4	498.5	405.7	381.7	369.8	360.8	351.8	350.3
22.5°	2639.2	2059.9	1080.8	619.8	417.7	363.8	336.8	314.4	297.9	288.9	285.9
25°	2763.4	2031.4	928.1	495.5	368.3	323.4	288.9	263.5	241.0	230.5	227.5
27.5°	2851.8	1958.1	794.9	419.2	333.8	287.4	245.5	217.1	199.1	188.6	187.1
30°	2907.2	1848.8	672.1	374.2	303.9	250.0	208.1	184.1	170.7	163.2	160.2
32.5°	2949.1	1714.1	562.9	342.8	275.4	217.1	181.1	161.7	149.7	143.7	142.2
35°	3032.9	1586.8	482.0	314.4	245.5	190.1	158.7	143.7	134.7	127.2	125.7
37.5°	3149.7	1480.5	417.7	288.9	217.1	169.2	143.7	130.2	122.8	115.3	113.8
40°	3321.8	1413.2	369.8	263.5	191.6	152.7	131.7	119.8	109.3	101.8	100.3
42.5°	3586.8	1381.7	338.3	238.0	169.2	137.7	121.3	106.3	95.8	88.3	86.8
45°	3902.7	1398.2	311.4	212.6	154.2	127.2	107.8	92.8	82.3	74.8	73.4
47.5°	4241.0	1456.6	288.9	188.6	139.2	116.8	95.8	79.3	70.4	62.9	61.4
50°	4594.3	1552.4	269.5	166.2	127.2	104.8	82.3	68.9	59.9	53.9	52.4
52.5°	4901.2	1682.6	250.0	149.7	116.8	92.8	71.9	59.9	50.9	44.9	43.4
55°	5194.6	1805.4	235.0	134.7	104.8	80.8	62.9	50.9	43.4	37.4	35.9
57.5°	5513.4	1935.6	217.1	121.3	94.3	71.9	55.4	43.4	37.4	31.4	29.9
60°	5977.5	2128.7	190.1	110.8	82.3	62.9	47.9	38.9	32.9	25.4	24.0
62.5°	6646.6	2480.5	160.2	95.8	70.4	53.9	40.4	32.9	26.9	21.0	18.0
65°	7898.1	3079.3	131.7	79.3	56.9	44.9	34.4	26.9	21.0	15.0	13.5
67.5°	8799.3	3235.0	106.3	64.4	46.4	34.4	28.4	21.0	15.0	10.5	9.0
70°	7693.0	2323.3	82.3	52.4	38.9	26.9	22.5	16.5	10.5	7.5	6.0
72.5°	5796.4	1518.0	61.4	40.4	29.9	22.5	16.5	13.5	9.0	6.0	4.5
75°	4085.3	877.2	44.9	29.9	21.0	16.5	13.5	10.5	7.5	4.5	4.5
77.5°	2094.3	362.3	31.4	21.0	15.0	10.5	9.0	6.0	6.0	4.5	3.0
80°	636.2	119.8	18.0	13.5	10.5	7.5	4.5	4.5	4.5	3.0	1.5
82.5°	145.2	38.9	10.5	10.5	7.5	6.0	4.5	1.5	1.5	0.0	0.0
85°	37.4	12.0	9.0	7.5	7.5	6.0	3.0	1.5	0.0	0.0	0.0
87.5°	13.5	7.5	7.5	7.5	6.0	4.5	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)