

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: P637402

Luminaire Tested: GWS-SA4C-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15331.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

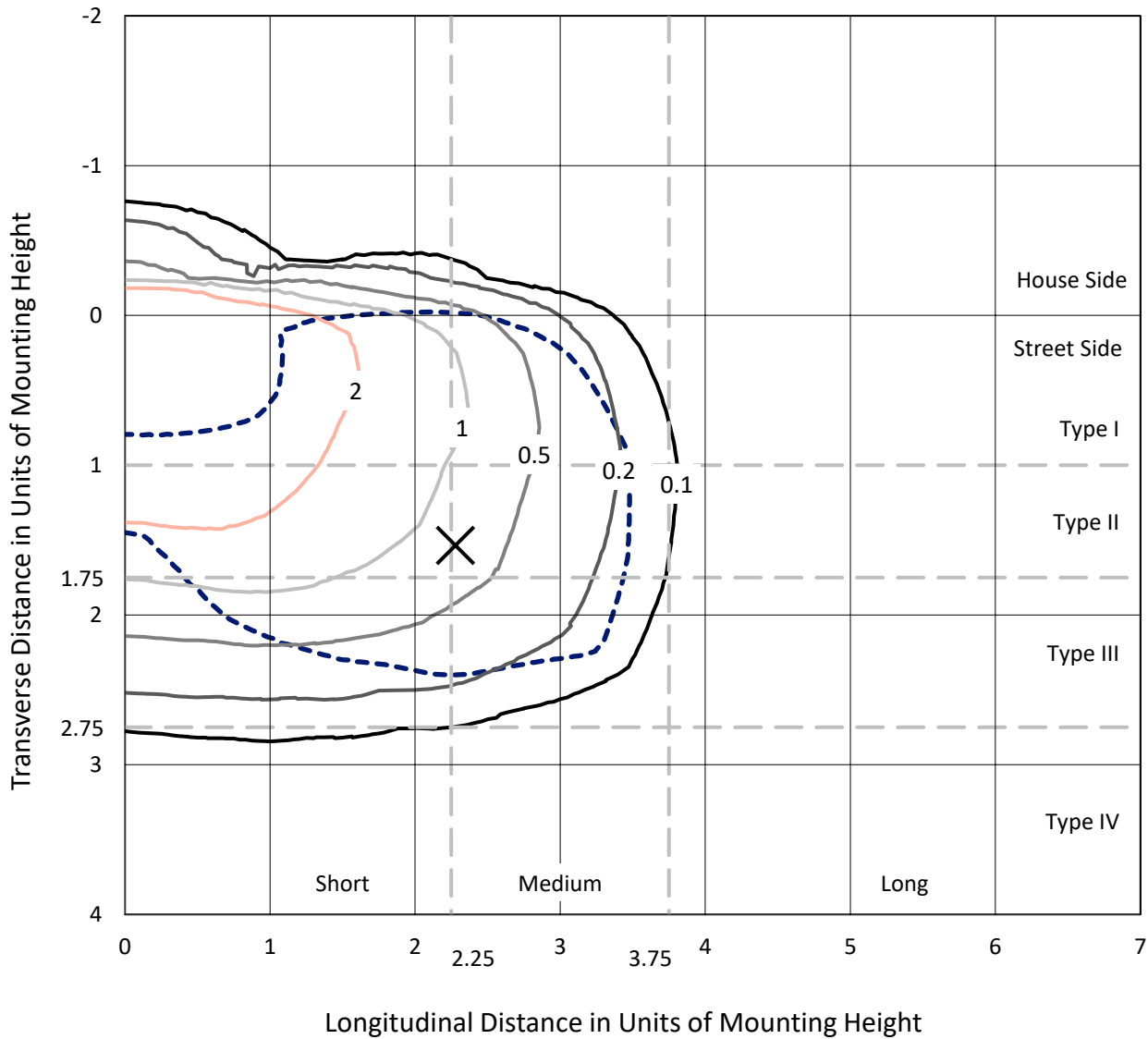
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

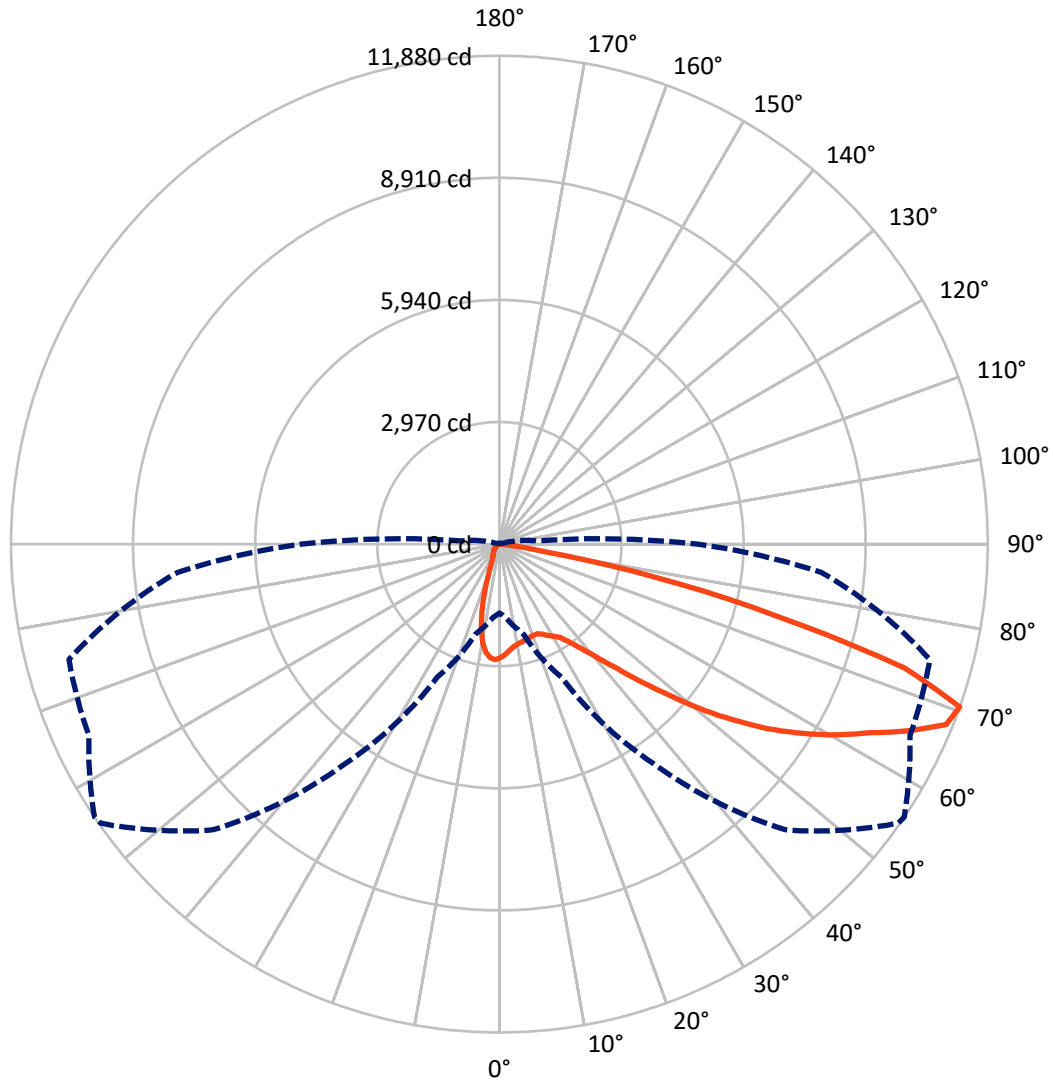
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.0	0.0	1377.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	13954.1	0.0	13954.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	15331.1	0.0	15331.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.5
10°-20°	533.8	3.5
20°-30°	845.6	5.5
30°-40°	1458.2	9.5
40°-50°	2462.3	16.1
50°-60°	3618.0	23.6
60°-70°	4289.3	28.0
70°-80°	1829.1	11.9
80°-90°	57.4	0.4
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°	15331.1	100.0
0°-180°	15331.1	100.0

Coefficient of Utilization



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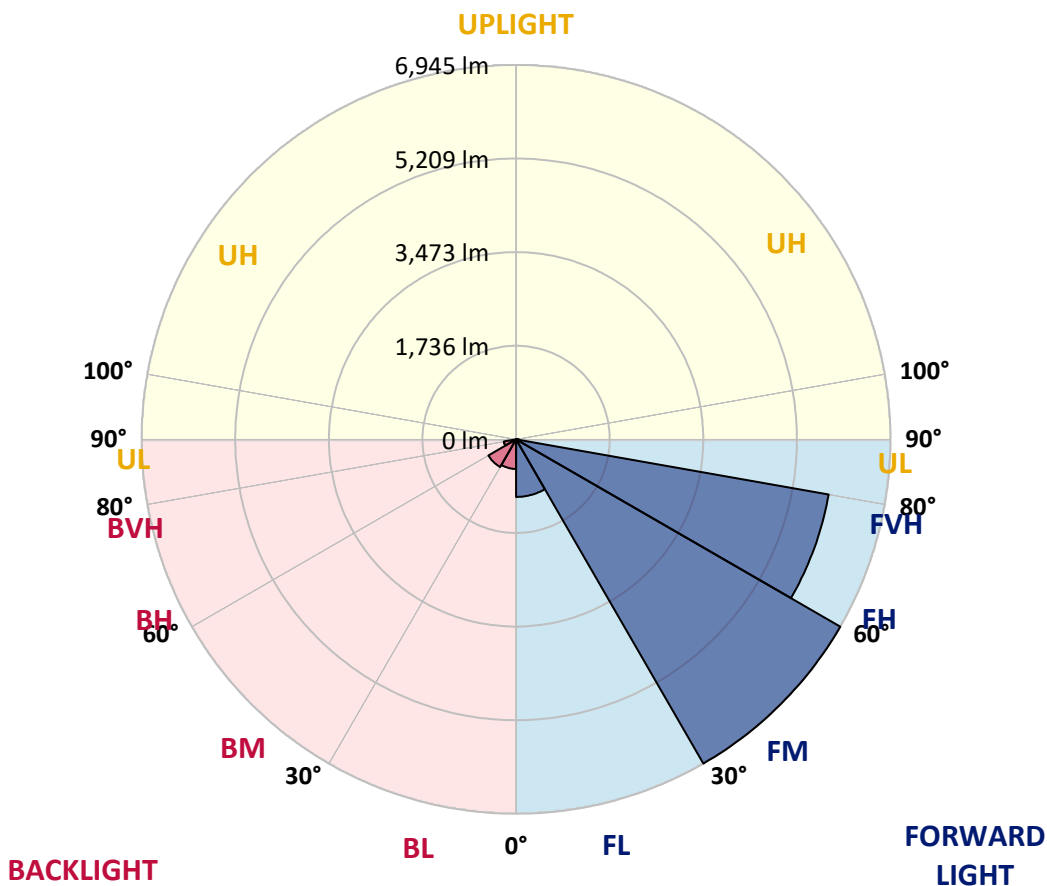
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.3	7.0			
FM (30°-60°)	6945.4	45.3			
FH (60°-80°)	5888.8	38.4			G3/7500
FVH (80°-90°)	51.6	0.3			G1/100
BL (0°-30°)	548.4	3.6	B2/1000		
BM (30°-60°)	593.1	3.9	B1/1000		
BH (60°-80°)	229.7	1.5	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4
2.5°	2573.4	2569.2	2572.0	2593.1	2632.4	2650.6	2681.5	2687.1	2712.4	2744.7	2757.3
5°	2406.3	2392.3	2399.3	2428.8	2473.7	2524.3	2581.8	2597.3	2660.5	2732.1	2785.4
7.5°	2253.3	2237.9	2254.7	2301.1	2364.2	2419.0	2504.6	2514.5	2615.5	2741.9	2838.8
10°	2013.2	2017.5	2051.2	2132.6	2229.5	2343.2	2458.3	2472.3	2597.3	2774.2	2924.4
12.5°	1829.3	1819.5	1856.0	1948.7	2084.8	2250.5	2423.2	2441.4	2598.7	2823.3	3033.9
15°	1743.7	1740.9	1756.3	1823.7	1955.7	2150.8	2390.9	2414.8	2616.9	2868.2	3137.8
17.5°	1746.5	1742.3	1740.9	1780.2	1878.5	2076.4	2355.8	2386.7	2632.4	2917.4	3247.3
20°	1868.6	1849.0	1813.9	1795.6	1854.6	2028.7	2331.9	2367.0	2654.8	2969.3	3363.8
22.5°	2124.2	2131.2	2037.1	1938.8	1910.8	2034.3	2329.1	2369.8	2704.0	3050.8	3507.0
25°	2635.2	2624.0	2449.9	2229.5	2076.4	2098.9	2378.3	2427.4	2800.9	3167.3	3641.8
27.5°	3275.4	3285.2	3046.5	2695.6	2375.5	2232.3	2468.1	2517.3	2913.2	3240.3	3731.7
30°	3973.1	3963.3	3707.8	3318.9	2799.5	2454.1	2558.0	2601.5	2969.3	3279.6	3824.3
32.5°	4633.0	4610.5	4357.8	3950.7	3340.0	2803.7	2681.5	2706.8	3043.7	3365.2	3949.3
35°	5196.0	5194.6	4974.1	4540.3	3895.9	3241.7	2893.5	2914.6	3182.7	3501.4	4133.2
37.5°	5777.2	5757.5	5510.5	5114.5	4467.3	3721.8	3217.8	3209.4	3401.7	3702.2	4359.2
40°	6254.5	6241.9	6052.4	5671.9	5061.2	4252.5	3610.9	3585.7	3661.5	3980.2	4673.7
42.5°	6608.3	6609.7	6550.8	6319.1	5690.2	4866.0	4105.1	4065.8	4064.4	4399.9	5089.3
45°	6876.5	6894.7	6983.2	6948.1	6432.8	5580.6	4738.3	4697.6	4628.8	4944.7	5565.2
47.5°	7001.4	7025.3	7292.0	7432.4	7082.9	6289.6	5492.2	5406.6	5271.8	5669.1	6097.3
50°	6988.8	7030.9	7403.0	7829.8	7672.5	7008.5	6313.5	6272.8	6052.4	6435.6	6623.8
52.5°	6702.4	6792.2	7410.0	8071.2	8126.0	7671.1	7162.9	7087.1	6980.4	7235.9	7118.0
55°	5924.6	6034.1	7113.7	8148.4	8479.8	8249.5	7994.0	7932.2	7755.3	7991.2	7549.0
57.5°	5502.0	5596.1	6490.4	8110.5	8780.2	8784.4	8733.9	8683.3	8537.3	8738.1	8054.4
60°	5247.9	5342.0	6157.7	7971.6	9052.6	9348.8	9428.8	9423.2	9212.6	9587.5	8646.8
62.5°	4875.9	5005.0	5810.9	7610.7	9246.3	9904.8	10146.3	10108.3	9873.9	10472.0	9233.7
65°	4124.8	4237.1	5100.5	7015.5	9132.6	10365.3	10924.0	10943.7	10672.7	11304.5	9697.0
67.5°	2892.1	2974.9	3832.7	5766.0	8360.4	10516.9	11720.1	11718.7	11256.8	11731.3	9492.0
70°	1676.3	1790.0	2264.6	3564.6	6504.4	9827.6	11839.4	11880.1	11019.5	10839.8	7855.0
72.5°	648.6	742.7	1283.2	1893.9	3391.9	7527.9	10184.2	10303.5	9222.5	8361.8	5466.9
75°	193.7	216.2	603.7	1008.0	1361.8	3636.2	6894.7	6928.4	6326.1	5215.6	2802.3
77.5°	144.6	160.0	263.9	509.6	477.3	1102.1	3567.4	3895.9	3358.2	1863.0	772.2
80°	98.3	116.5	188.1	248.5	176.9	293.4	1002.4	1100.7	1024.9	418.4	193.7
82.5°	43.5	56.2	133.4	125.0	64.6	84.2	308.9	328.5	212.0	126.4	67.4
85°	4.2	5.6	50.5	54.8	23.9	19.7	64.6	64.6	46.3	43.5	28.1
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	5.6	7.0	8.4	11.2	14.0
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°	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4
2.5°	2789.6	2772.8	2793.8	2810.7	2814.9	2784.0	2765.8	2739.1	2733.5	2734.9	2727.8
5°	2827.5	2819.1	2834.5	2816.3	2768.6	2678.7	2601.5	2515.9	2469.5	2442.9	2440.0
7.5°	2897.7	2893.5	2876.7	2793.8	2645.0	2445.7	2253.3	2065.2	1948.7	1906.5	1899.5
10°	3001.6	2993.2	2924.4	2727.8	2410.6	2027.3	1704.4	1434.8	1270.6	1222.8	1163.9
12.5°	3121.0	3104.1	2953.9	2586.1	2056.8	1526.1	1123.1	821.3	679.5	637.4	637.4
15°	3236.1	3199.6	2937.0	2351.6	1621.5	992.6	627.6	474.5	431.0	419.8	419.8
17.5°	3354.0	3283.8	2871.1	2031.5	1120.3	586.8	418.4	388.9	383.3	384.7	386.1
20°	3464.9	3355.4	2754.5	1646.8	714.6	409.9	374.9	367.8	365.0	367.8	366.4
22.5°	3585.7	3421.4	2577.6	1227.0	464.7	369.2	356.6	351.0	348.2	352.4	352.4
25°	3705.0	3469.1	2343.2	825.5	369.2	344.0	336.9	331.3	328.5	329.9	329.9
27.5°	3766.8	3450.9	2035.7	526.5	331.3	318.7	311.7	304.7	300.4	299.0	300.4
30°	3808.9	3394.7	1659.5	374.9	300.4	285.0	278.0	272.4	261.1	254.1	256.9
32.5°	3874.9	3338.6	1250.9	314.5	275.2	251.3	240.1	226.0	210.6	203.6	203.6
35°	3953.5	3261.3	877.5	283.6	248.5	223.2	202.2	178.3	160.0	154.4	154.4
37.5°	4057.4	3188.3	584.0	262.5	226.0	199.4	169.9	141.8	122.1	119.3	117.9
40°	4213.2	3126.6	411.4	247.1	206.4	174.1	139.0	109.5	95.5	91.3	91.3
42.5°	4415.4	3063.4	325.7	231.6	189.5	150.2	110.9	87.0	75.8	73.0	71.6
45°	4665.3	2989.0	283.6	217.6	172.7	125.0	88.4	73.0	64.6	61.8	61.8
47.5°	4936.2	2887.9	263.9	199.4	153.0	101.1	74.4	63.2	59.0	57.6	56.2
50°	5203.0	2751.7	247.1	182.5	130.6	82.8	64.6	57.6	54.8	53.3	53.3
52.5°	5436.0	2593.1	226.0	162.9	106.7	71.6	57.6	53.3	50.5	47.7	46.3
55°	5635.4	2420.4	199.4	140.4	87.0	63.2	53.3	49.1	46.3	43.5	42.1
57.5°	5892.3	2322.1	160.0	113.7	71.6	56.2	49.1	44.9	42.1	37.9	37.9
60°	6177.3	2250.5	119.3	89.9	61.8	51.9	44.9	40.7	37.9	33.7	33.7
62.5°	6406.2	2143.8	94.1	73.0	53.3	46.3	40.7	36.5	33.7	29.5	29.5
65°	6493.2	1923.4	77.2	57.6	43.5	40.7	36.5	33.7	29.5	25.3	25.3
67.5°	6100.1	1482.6	64.6	46.3	36.5	35.1	32.3	30.9	25.3	22.5	21.1
70°	4830.9	904.1	53.3	37.9	30.9	29.5	29.5	26.7	22.5	21.1	19.7
72.5°	3310.5	466.1	43.5	30.9	26.7	26.7	25.3	23.9	21.1	19.7	19.7
75°	1719.8	155.8	33.7	23.9	21.1	22.5	22.5	21.1	19.7	19.7	18.3
77.5°	492.8	70.2	25.3	18.3	16.8	16.8	18.3	18.3	18.3	16.8	16.8
80°	127.8	40.7	18.3	14.0	14.0	14.0	14.0	15.4	16.8	15.4	15.4
82.5°	51.9	22.5	12.6	11.2	11.2	11.2	11.2	12.6	14.0	14.0	14.0
85°	32.3	11.2	9.8	9.8	9.8	8.4	8.4	9.8	9.8	11.2	11.2
87.5°	19.7	8.4	8.4	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0
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)