

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: P637390

Luminaire Tested: GWS-SA4C-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637390
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-SA4C-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14669.8 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

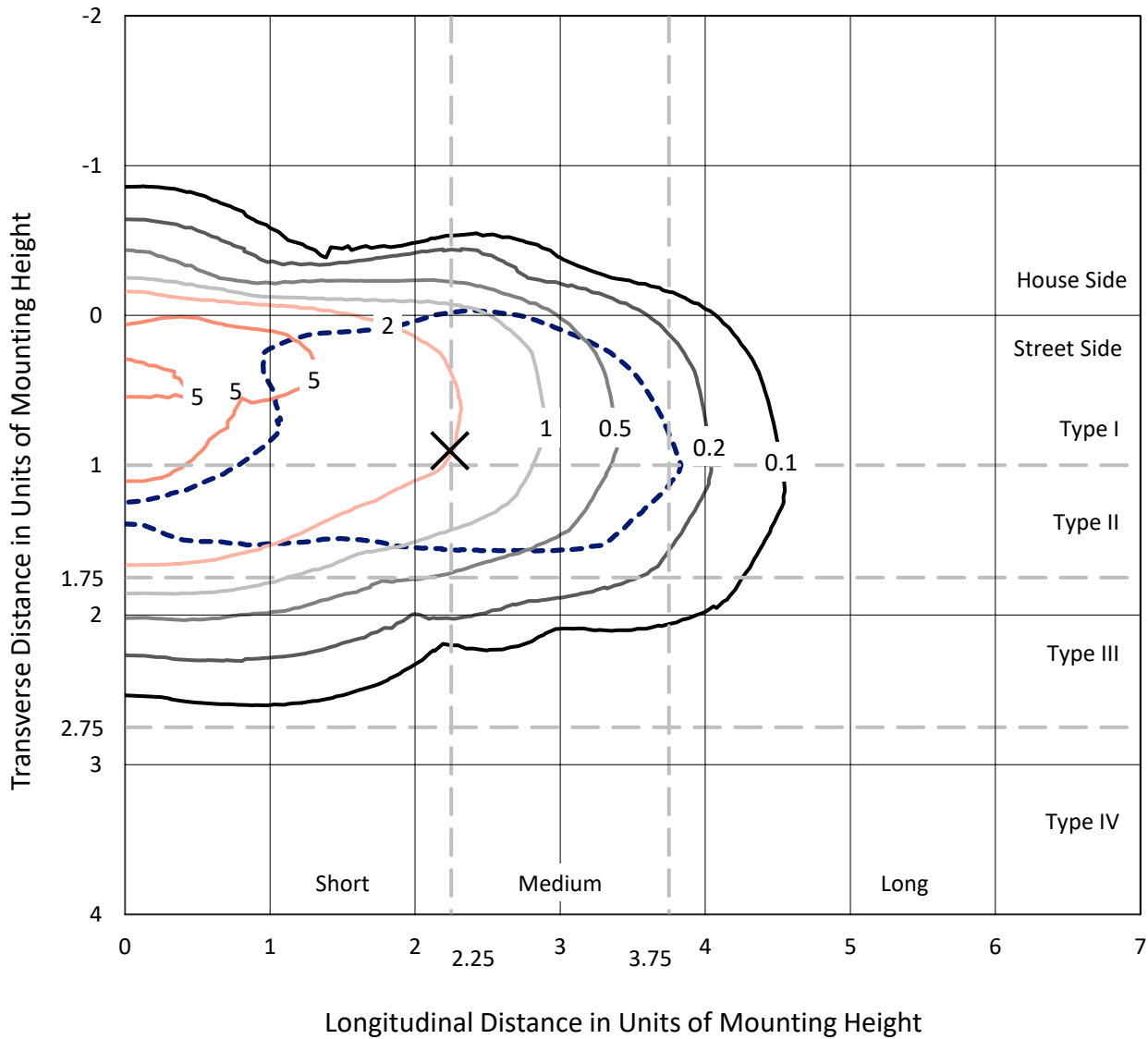
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

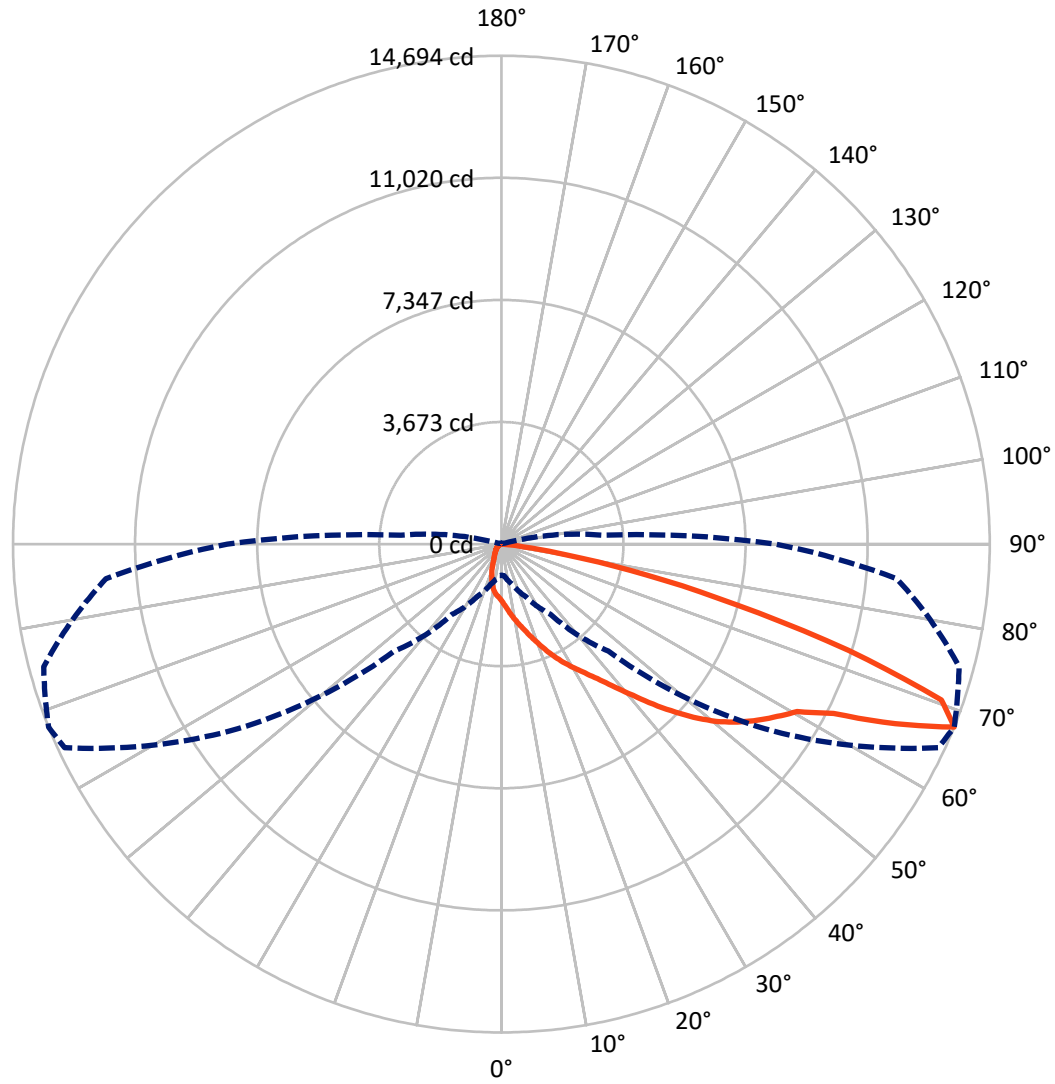
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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	1059.3	0.0	1059.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13610.5	0.0	13610.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	14669.8	0.0	14669.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.1
10°-20°	478.1	3.3
20°-30°	821.7	5.6
30°-40°	1428.6	9.7
40°-50°	2492.8	17.0
50°-60°	3759.8	25.6
60°-70°	3770.1	25.7
70°-80°	1663.3	11.3
80°-90°	88.9	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°	14669.8	100.0
0°-180°	14669.8	100.0

Coefficient of Utilization



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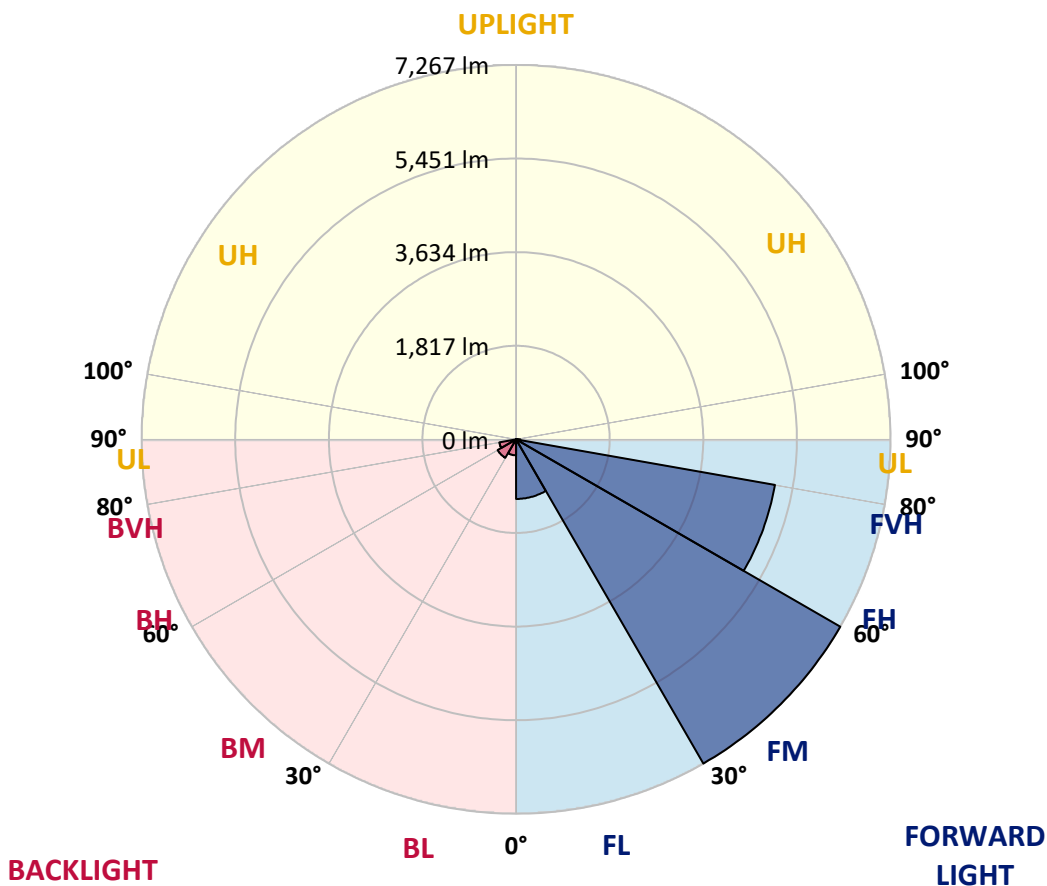
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.4	7.9			
FM (30°-60°)	7267.4	49.5			
FH (60°-80°)	5102.8	34.8			G3/7500
FVH (80°-90°)	83.8	0.6			G1/100
BL (0°-30°)	309.9	2.1	B1/500		
BM (30°-60°)	413.8	2.8	B1/1000		
BH (60°-80°)	330.6	2.3	B1/500		G1/500
BVH (80°-90°)	5.0	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°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1988.0	2000.6	1988.0	1990.8	1954.3	1937.4	1900.9	1850.4	1837.8	1805.5	1756.3
5°	2230.9	2242.1	2229.5	2226.6	2184.5	2153.6	2093.3	2006.2	1981.0	1917.8	1820.9
7.5°	2362.8	2369.9	2374.1	2381.1	2365.6	2340.4	2285.6	2177.5	2150.8	2048.3	1912.2
10°	2376.9	2382.5	2403.5	2445.7	2476.6	2492.0	2461.1	2361.4	2319.3	2219.6	2024.5
12.5°	2337.6	2346.0	2379.7	2449.9	2535.5	2614.1	2633.8	2546.7	2508.8	2381.1	2156.5
15°	2285.6	2292.6	2339.0	2434.4	2563.6	2708.2	2789.6	2751.7	2709.6	2576.2	2302.5
17.5°	2205.6	2215.4	2280.0	2409.2	2576.2	2782.6	2958.1	2970.7	2941.3	2796.6	2463.9
20°	2160.7	2167.7	2225.2	2358.6	2567.8	2837.4	3115.3	3234.7	3202.4	3050.8	2649.2
22.5°	2198.6	2204.2	2242.1	2346.0	2539.7	2868.3	3261.4	3498.6	3480.4	3323.1	2844.4
25°	2397.9	2416.2	2393.7	2412.0	2552.4	2885.1	3379.3	3762.6	3766.8	3608.1	3046.6
27.5°	2802.3	2778.4	2725.0	2633.8	2650.6	2930.0	3480.4	4011.1	4047.6	3886.1	3226.3
30°	3213.6	3199.6	3167.3	3025.5	2907.6	3029.7	3566.0	4265.2	4322.7	4159.9	3386.3
32.5°	3675.5	3689.6	3632.0	3462.1	3261.4	3231.9	3654.5	4506.6	4614.8	4470.1	3574.4
35°	4227.3	4231.5	4117.8	3929.6	3702.2	3566.0	3813.1	4773.4	4972.8	4866.1	3825.7
37.5°	4765.0	4790.2	4728.5	4432.2	4230.1	3981.6	4075.6	5116.0	5396.7	5354.6	4141.6
40°	5240.9	5280.2	5260.6	4974.2	4708.8	4499.6	4482.8	5517.5	5909.2	5956.9	4558.6
42.5°	5620.0	5645.2	5660.7	5457.1	5222.7	5104.7	4985.4	5983.6	6514.3	6709.4	5069.6
45°	6020.1	6028.5	6060.8	5923.2	5718.2	5728.1	5579.3	6549.4	7151.7	7543.4	5656.5
47.5°	6529.7	6557.8	6542.4	6397.8	6212.4	6323.3	6192.8	7132.0	7780.6	8433.5	6257.4
50°	7150.3	7179.8	7165.7	6997.2	6790.9	6837.2	6755.8	7697.8	8387.1	9273.0	6757.2
52.5°	7470.4	7494.2	7668.3	7744.1	7636.0	7341.2	7235.9	8319.8	8899.6	9963.8	7216.3
55°	7315.9	7332.8	7711.8	8031.9	8427.9	8133.0	7718.9	8799.9	9351.6	10502.9	7557.4
57.5°	6675.7	6767.0	7282.2	7824.2	8656.7	8915.0	8502.3	9322.2	9786.9	10877.7	7893.0
60°	5363.1	5358.8	6097.3	7070.2	8210.2	9129.8	9608.6	10028.3	10223.5	11165.5	8342.2
62.5°	2963.7	2990.4	3973.2	5254.9	6969.2	8573.9	10438.3	11248.4	11218.9	11668.1	9045.6
65°	1475.5	1528.9	2062.4	3010.0	4637.2	7085.7	10581.5	13110.0	13025.8	12851.7	10498.7
67.5°	936.4	957.5	1252.3	1749.3	2577.6	4554.4	9690.0	14498.5	14693.6	14255.6	11940.5
70°	606.5	641.6	870.4	1196.2	1555.6	2347.4	7098.3	13598.6	14046.4	14101.2	11042.0
72.5°	329.9	355.2	556.0	853.6	1123.2	1173.7	3987.2	10205.2	10925.5	11961.6	8638.4
75°	188.1	206.4	304.7	579.8	824.1	714.6	1767.6	6831.6	7290.7	8548.6	6190.0
77.5°	113.7	129.2	171.3	282.2	516.7	477.3	668.3	4158.5	4450.5	5100.5	3248.7
80°	51.9	61.8	108.1	155.8	282.2	226.0	255.5	1938.8	2002.0	2093.3	1075.4
82.5°	23.9	28.1	49.1	92.7	160.0	130.6	98.3	447.9	630.4	596.7	273.8
85°	2.8	2.8	18.3	37.9	44.9	33.7	40.7	101.1	127.8	179.7	78.6
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	8.4	12.6	18.3	29.5	19.7
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°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1733.9	1694.6	1659.5	1607.5	1572.4	1533.1	1506.4	1474.1	1461.5	1451.7	1437.6
5°	1773.2	1710.0	1624.4	1528.9	1450.3	1375.9	1307.1	1262.1	1222.8	1217.2	1197.6
7.5°	1837.8	1743.7	1599.1	1443.3	1309.9	1186.3	1089.5	1010.8	971.5	958.9	936.4
10°	1923.4	1794.2	1561.2	1322.5	1130.2	982.8	873.3	784.8	723.0	700.6	683.7
12.5°	2018.9	1840.6	1500.8	1173.7	954.7	786.2	647.2	553.2	513.8	499.8	487.2
15°	2128.4	1884.1	1405.3	1024.9	783.4	578.4	480.1	439.4	422.6	418.4	414.2
17.5°	2233.7	1912.2	1291.6	870.4	602.3	449.3	402.9	387.5	383.3	379.1	376.3
20°	2353.0	1931.8	1158.3	724.4	467.5	380.5	358.0	346.8	338.3	329.9	328.5
22.5°	2475.1	1931.8	1013.6	581.2	391.7	341.2	315.9	294.8	279.4	271.0	268.2
25°	2591.7	1905.1	870.4	464.7	345.4	303.3	271.0	247.1	226.0	216.2	213.4
27.5°	2674.5	1836.4	745.5	393.1	313.1	269.6	230.2	203.6	186.7	176.9	175.5
30°	2726.5	1733.9	630.4	351.0	285.0	234.5	195.1	172.7	160.0	153.0	150.2
32.5°	2765.8	1607.5	527.9	321.5	258.3	203.6	169.9	151.6	140.4	134.8	133.4
35°	2844.4	1488.2	452.1	294.8	230.2	178.3	148.8	134.8	126.4	119.3	117.9
37.5°	2953.9	1388.5	391.7	271.0	203.6	158.6	134.8	122.1	115.1	108.1	106.7
40°	3115.3	1325.3	346.8	247.1	179.7	143.2	123.5	112.3	102.5	95.5	94.1
42.5°	3363.8	1295.8	317.3	223.2	158.6	129.2	113.7	99.7	89.9	82.8	81.4
45°	3660.1	1311.3	292.0	199.4	144.6	119.3	101.1	87.0	77.2	70.2	68.8
47.5°	3977.4	1366.0	271.0	176.9	130.6	109.5	89.9	74.4	66.0	59.0	57.6
50°	4308.7	1455.9	252.7	155.8	119.3	98.3	77.2	64.6	56.2	50.5	49.1
52.5°	4596.5	1578.0	234.5	140.4	109.5	87.0	67.4	56.2	47.7	42.1	40.7
55°	4871.7	1693.2	220.4	126.4	98.3	75.8	59.0	47.7	40.7	35.1	33.7
57.5°	5170.7	1815.3	203.6	113.7	88.4	67.4	51.9	40.7	35.1	29.5	28.1
60°	5605.9	1996.4	178.3	103.9	77.2	59.0	44.9	36.5	30.9	23.9	22.5
62.5°	6233.5	2326.3	150.2	89.9	66.0	50.5	37.9	30.9	25.3	19.7	16.8
65°	7407.2	2887.9	123.5	74.4	53.3	42.1	32.3	25.3	19.7	14.0	12.6
67.5°	8252.4	3033.9	99.7	60.4	43.5	32.3	26.7	19.7	14.0	9.8	8.4
70°	7214.9	2178.9	77.2	49.1	36.5	25.3	21.1	15.4	9.8	7.0	5.6
72.5°	5436.1	1423.6	57.6	37.9	28.1	21.1	15.4	12.6	8.4	5.6	4.2
75°	3831.4	822.7	42.1	28.1	19.7	15.4	12.6	9.8	7.0	4.2	4.2
77.5°	1964.1	339.8	29.5	19.7	14.0	9.8	8.4	5.6	5.6	4.2	2.8
80°	596.7	112.3	16.8	12.6	9.8	7.0	4.2	4.2	4.2	2.8	1.4
82.5°	136.2	36.5	9.8	9.8	7.0	5.6	4.2	1.4	1.4	0.0	0.0
85°	35.1	11.2	8.4	7.0	7.0	5.6	2.8	1.4	0.0	0.0	0.0
87.5°	12.6	7.0	7.0	7.0	5.6	4.2	2.8	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)