

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: P638553

Luminaire Tested: GWS-SA4F-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18399.5 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

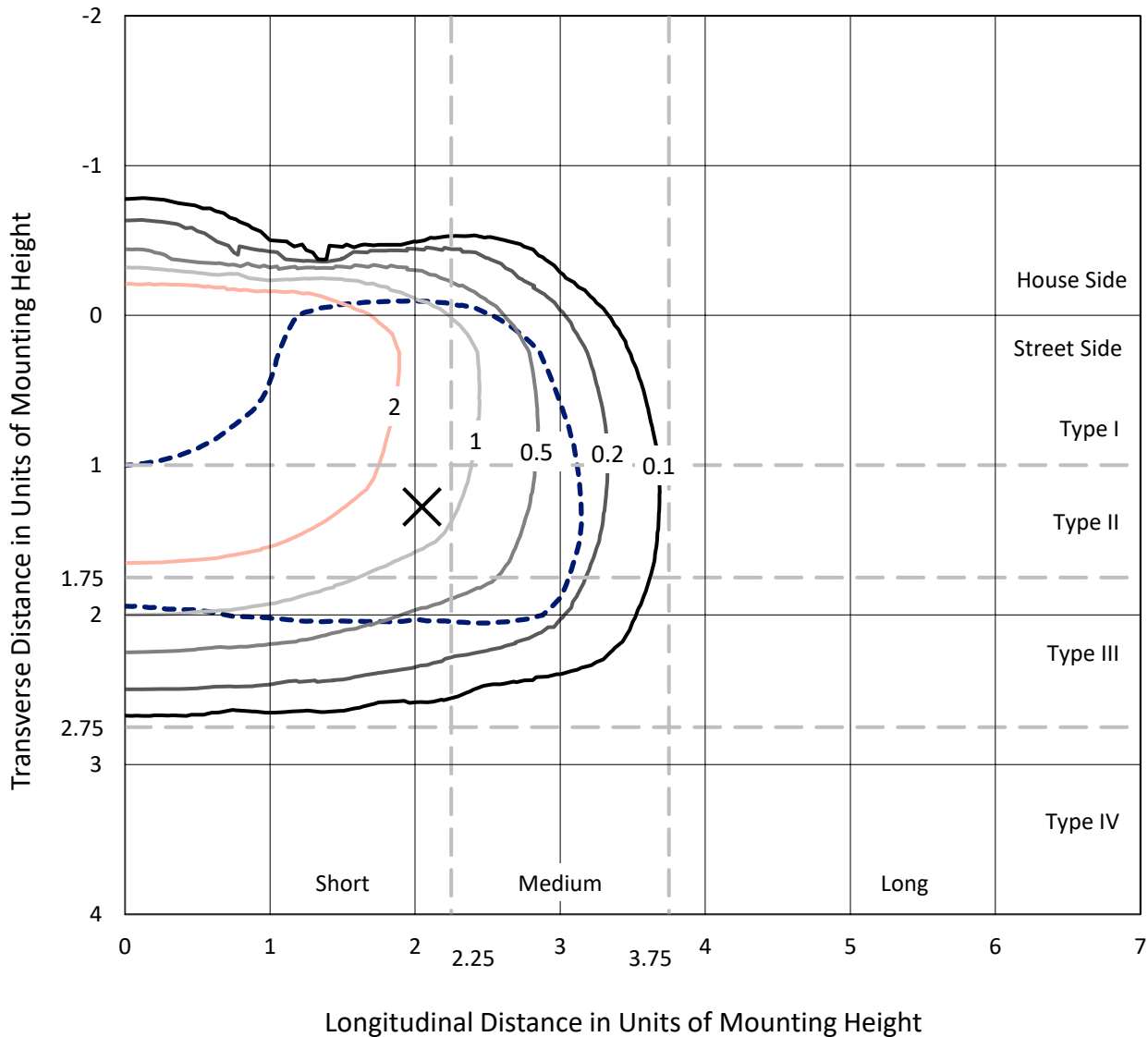
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

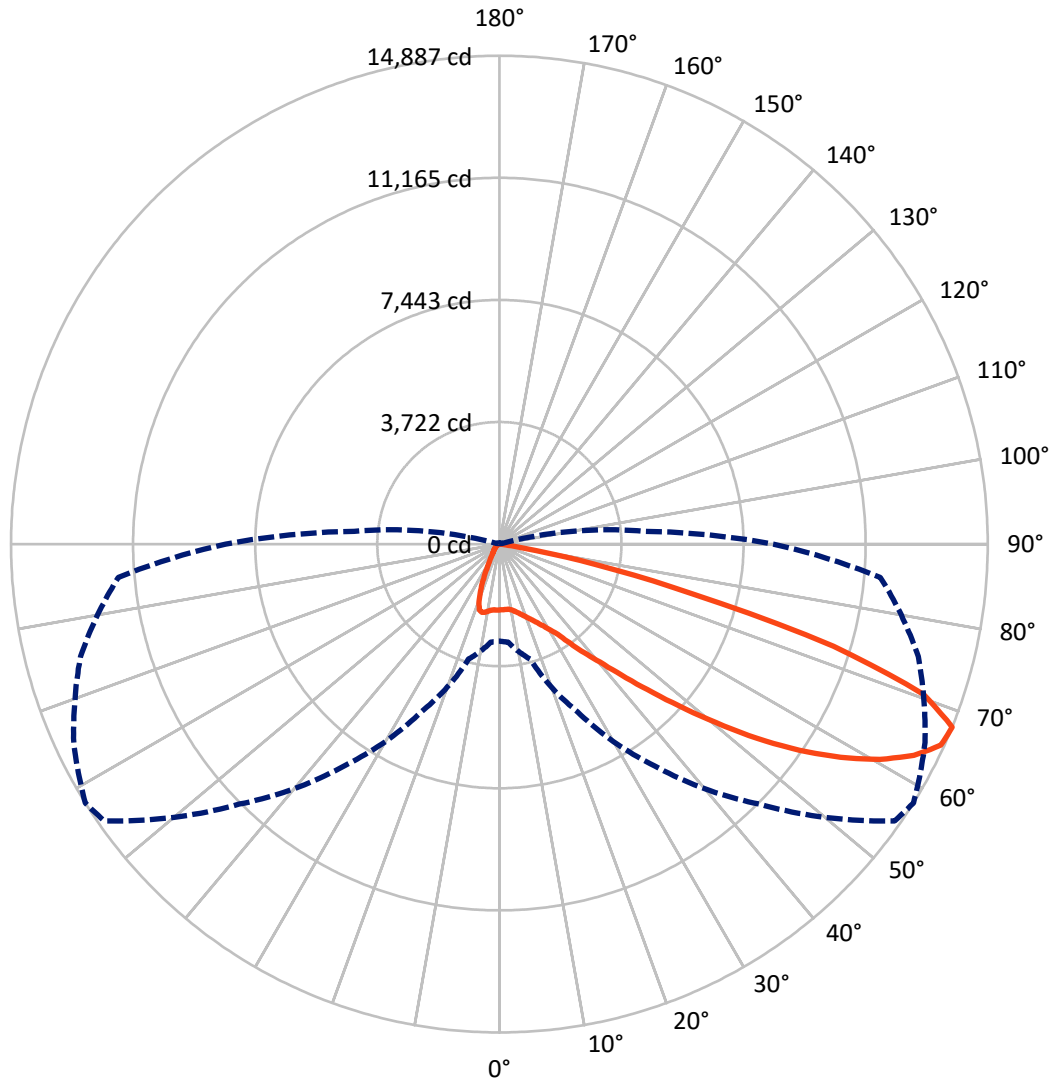
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.4	0.0	2007.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	16392.2	0.0	16392.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	18399.5	0.0	18399.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.0
10°-20°	528.8	2.9
20°-30°	923.1	5.0
30°-40°	1648.5	9.0
40°-50°	3013.1	16.4
50°-60°	5011.1	27.2
60°-70°	5442.9	29.6
70°-80°	1598.1	8.7
80°-90°	45.5	0.2
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°	18399.5	100.0
0°-180°	18399.5	100.0

Coefficient of Utilization



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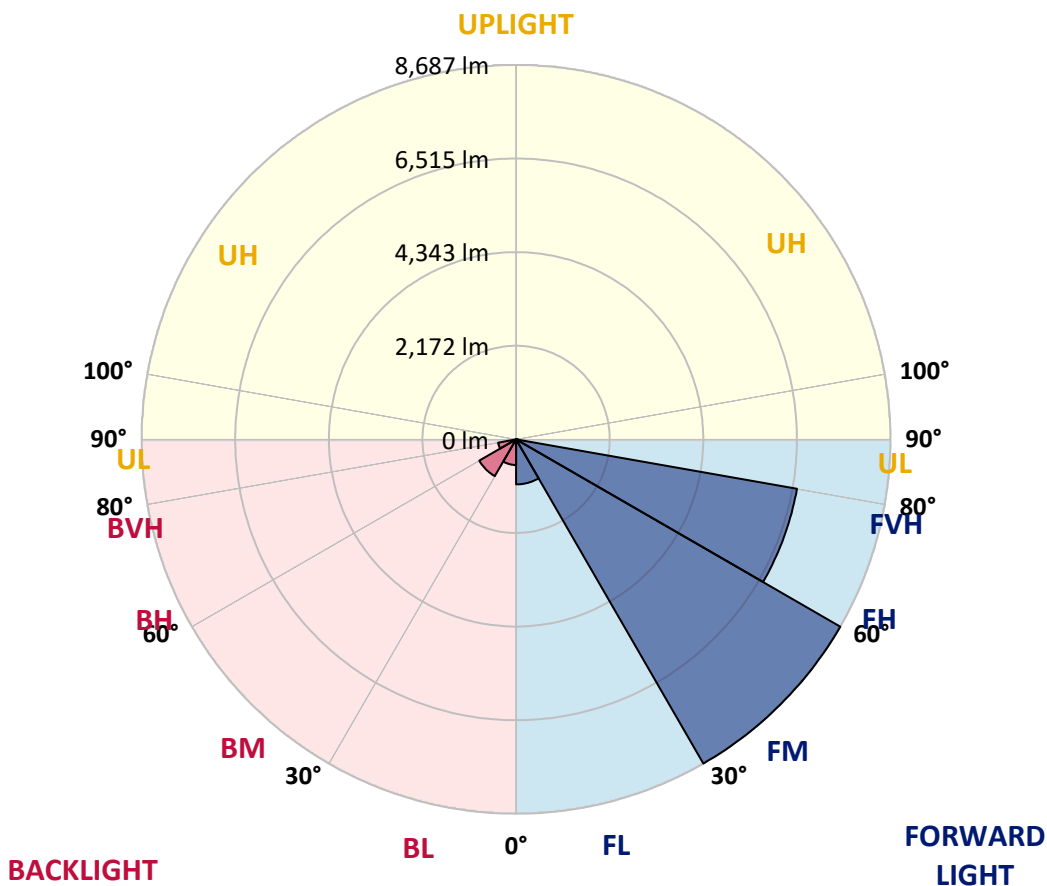
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.8	5.7			
FM (30°-60°)	8686.8	47.2			
FH (60°-80°)	6617.3	36.0			G3/7500
FVH (80°-90°)	43.3	0.2			G1/100
BL (0°-30°)	595.4	3.2	B2/1000		
BM (30°-60°)	985.9	5.4	B1/1000		
BH (60°-80°)	423.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0
2.5°	1967.3	1963.7	1963.7	1978.0	1979.8	1987.0	2003.2	2005.0	2014.0	2010.4	1997.8
5°	1864.9	1866.7	1877.4	1902.6	1924.1	1951.1	1990.6	1999.6	2019.4	2030.1	2023.0
7.5°	1769.6	1771.4	1787.6	1827.1	1868.5	1922.4	1987.0	2005.0	2044.5	2073.3	2075.1
10°	1733.7	1731.9	1748.1	1793.0	1846.9	1922.4	2015.8	2039.1	2098.4	2148.7	2157.7
12.5°	1744.5	1742.7	1758.9	1800.2	1859.5	1954.7	2066.1	2098.4	2173.9	2251.1	2267.3
15°	1787.6	1785.8	1796.6	1830.7	1895.4	1994.2	2130.8	2179.3	2274.5	2367.9	2393.1
17.5°	1917.0	1908.0	1897.2	1900.8	1938.5	2040.9	2213.4	2272.7	2391.3	2502.7	2524.2
20°	2146.9	2123.6	2094.8	2057.1	2039.1	2109.2	2308.6	2376.9	2520.6	2648.2	2651.8
22.5°	2493.7	2484.7	2418.2	2308.6	2231.4	2233.2	2420.0	2499.1	2675.1	2815.3	2795.5
25°	2977.0	2971.6	2869.2	2689.5	2488.3	2420.0	2561.9	2642.8	2858.4	3007.5	2944.6
27.5°	3577.0	3539.3	3418.9	3176.4	2876.3	2662.5	2741.6	2813.5	3052.4	3192.5	3074.0
30°	4099.8	4101.6	3988.4	3735.1	3397.4	3027.3	2960.8	3023.7	3230.3	3377.6	3233.9
32.5°	4602.9	4619.0	4495.1	4266.9	3896.8	3503.4	3275.2	3286.0	3458.4	3618.3	3444.1
35°	5070.0	5082.6	4996.3	4802.3	4457.3	4001.0	3713.6	3708.2	3801.6	3965.1	3736.9
37.5°	5592.8	5605.4	5520.9	5346.7	5023.3	4570.5	4211.2	4204.0	4241.8	4374.7	4114.2
40°	6149.7	6173.1	6079.7	5932.3	5623.3	5240.7	4789.7	4725.0	4687.3	4843.6	4602.9
42.5°	6713.9	6749.8	6717.5	6570.1	6306.0	5989.8	5540.7	5440.1	5359.2	5555.1	5299.9
45°	7414.5	7457.7	7443.3	7330.1	7125.3	6868.4	6444.4	6327.6	6289.9	6471.3	6167.7
47.5°	8088.3	8135.0	8187.1	8161.9	8016.4	7897.8	7427.1	7360.6	7349.9	7543.9	7073.2
50°	8589.5	8632.6	8832.0	8975.8	9074.6	9049.4	8641.6	8542.8	8526.6	8650.6	8029.0
52.5°	8948.8	8990.1	9265.0	9714.2	10077.1	10274.7	9863.3	9841.7	9753.7	9710.6	8923.7
55°	9227.3	9284.8	9574.0	10253.1	10984.4	11422.7	11165.8	11088.6	10862.2	10614.3	9753.7
57.5°	9283.0	9306.3	9714.2	10630.4	11688.6	12398.3	12398.3	12263.5	11827.0	11483.8	10713.1
60°	8783.5	8855.4	9407.0	10599.9	11990.4	13036.1	13420.5	13327.1	12737.8	12315.6	11636.5
62.5°	7675.0	7755.9	8427.8	9868.7	11688.6	13167.2	14194.9	14180.5	13515.8	13003.7	12401.9
65°	5885.6	5944.9	6530.6	8255.3	10413.0	12662.4	14748.2	14787.7	14130.2	13458.3	12666.0
67.5°	2957.2	2998.5	3630.9	5639.5	8253.5	11208.9	14710.5	14886.6	14317.0	13217.5	11658.1
70°	1033.0	1074.4	1372.6	2420.0	5023.3	8559.0	13438.5	13726.0	13219.3	11282.6	8600.3
72.5°	353.9	373.7	569.5	898.3	1954.7	5073.6	10219.0	10652.0	9744.7	7574.4	4942.4
75°	201.2	213.8	305.4	486.9	819.2	1669.0	5797.6	6063.5	5680.8	4128.6	2033.7
77.5°	136.5	147.3	190.4	276.7	452.7	537.2	2364.3	2977.0	2596.1	1347.4	519.2
80°	80.8	88.0	116.8	163.5	231.8	208.4	506.6	673.7	867.8	402.4	156.3
82.5°	37.7	43.1	75.5	107.8	116.8	88.0	149.1	181.5	244.3	197.6	64.7
85°	0.0	0.0	25.2	44.9	43.1	25.2	41.3	44.9	66.5	98.8	25.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.4	10.8	19.8	10.8
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°	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0
2.5°	2012.2	1999.6	2014.0	2006.8	2014.0	2012.2	1997.8	1988.8	1988.8	1972.7	1967.3
5°	2037.3	2024.8	2028.4	2012.2	2008.6	1999.6	1981.6	1974.5	1974.5	1958.3	1952.9
7.5°	2093.0	2073.3	2069.7	2037.3	2023.0	1997.8	1965.5	1952.9	1951.1	1934.9	1929.5
10°	2181.1	2157.7	2141.5	2100.2	2058.9	2008.6	1940.3	1882.8	1850.5	1807.4	1803.8
12.5°	2288.9	2260.1	2235.0	2172.1	2103.8	1990.6	1789.4	1579.2	1449.8	1347.4	1354.6
15°	2409.2	2382.3	2342.8	2247.5	2107.4	1812.8	1392.4	1069.0	910.9	826.4	822.8
17.5°	2540.4	2500.9	2436.2	2306.8	1994.2	1385.2	905.5	639.6	556.9	528.2	521.0
20°	2662.5	2614.0	2533.2	2319.4	1667.2	937.8	565.9	495.9	481.5	472.5	472.5
22.5°	2791.9	2730.8	2610.4	2222.4	1239.6	600.1	481.5	465.3	454.5	442.0	440.2
25°	2923.1	2844.0	2680.5	1969.1	812.1	472.5	450.9	433.0	413.2	393.5	388.1
27.5°	3034.4	2932.0	2734.4	1591.8	521.0	425.8	411.4	380.9	353.9	332.4	328.8
30°	3167.4	3036.2	2757.8	1164.2	409.6	375.5	353.9	321.6	289.3	267.7	260.5
32.5°	3345.3	3201.5	2721.8	758.2	362.9	330.6	296.4	258.7	226.4	203.0	199.4
35°	3621.9	3451.3	2556.5	483.3	328.8	285.7	244.3	204.8	177.9	159.9	156.3
37.5°	3959.7	3801.6	2285.3	362.9	294.6	247.9	199.4	161.7	141.9	129.4	125.8
40°	4460.9	4240.0	1949.3	318.0	260.5	210.2	163.5	132.9	118.6	107.8	104.2
42.5°	5111.3	4757.4	1563.0	289.3	228.2	176.1	132.9	109.6	97.0	89.8	88.0
45°	5871.3	5262.2	1155.2	260.5	197.6	145.5	109.6	89.8	80.8	75.5	73.7
47.5°	6649.2	5704.2	797.7	230.0	168.9	120.4	91.6	77.3	70.1	62.9	61.1
50°	7479.2	6077.9	544.4	199.4	143.7	98.8	79.1	70.1	61.1	55.7	53.9
52.5°	8088.3	6216.2	379.1	172.5	122.2	84.4	70.1	62.9	55.7	48.5	46.7
55°	8650.6	6212.6	287.5	145.5	104.2	73.7	62.9	55.7	48.5	43.1	41.3
57.5°	9211.1	6164.1	226.4	124.0	89.8	66.5	55.7	48.5	44.9	37.7	35.9
60°	9574.0	5980.9	176.1	104.2	77.3	57.5	48.5	43.1	37.7	32.3	30.5
62.5°	9766.3	5725.7	134.7	82.6	62.9	50.3	43.1	37.7	32.3	26.9	25.2
65°	9505.8	5273.0	106.0	64.7	48.5	43.1	35.9	30.5	25.2	19.8	18.0
67.5°	8350.6	4446.6	82.6	52.1	37.7	32.3	30.5	25.2	18.0	14.4	12.6
70°	5901.8	3045.2	64.7	39.5	28.7	25.2	23.4	19.8	14.4	10.8	9.0
72.5°	3239.3	1536.1	46.7	28.7	21.6	19.8	18.0	16.2	12.6	9.0	9.0
75°	1246.8	422.2	34.1	19.8	14.4	14.4	12.6	12.6	10.8	7.2	7.2
77.5°	325.2	125.8	21.6	12.6	9.0	9.0	9.0	7.2	7.2	5.4	5.4
80°	104.2	41.3	12.6	9.0	7.2	5.4	5.4	3.6	5.4	3.6	3.6
82.5°	34.1	14.4	7.2	7.2	5.4	3.6	3.6	1.8	1.8	0.0	0.0
85°	12.6	7.2	5.4	3.6	3.6	3.6	1.8	0.0	0.0	0.0	0.0
87.5°	7.2	3.6	3.6	3.6	3.6	1.8	0.0	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)