

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: P637567

Luminaire Tested: GWS-SA4D-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637567
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14120.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

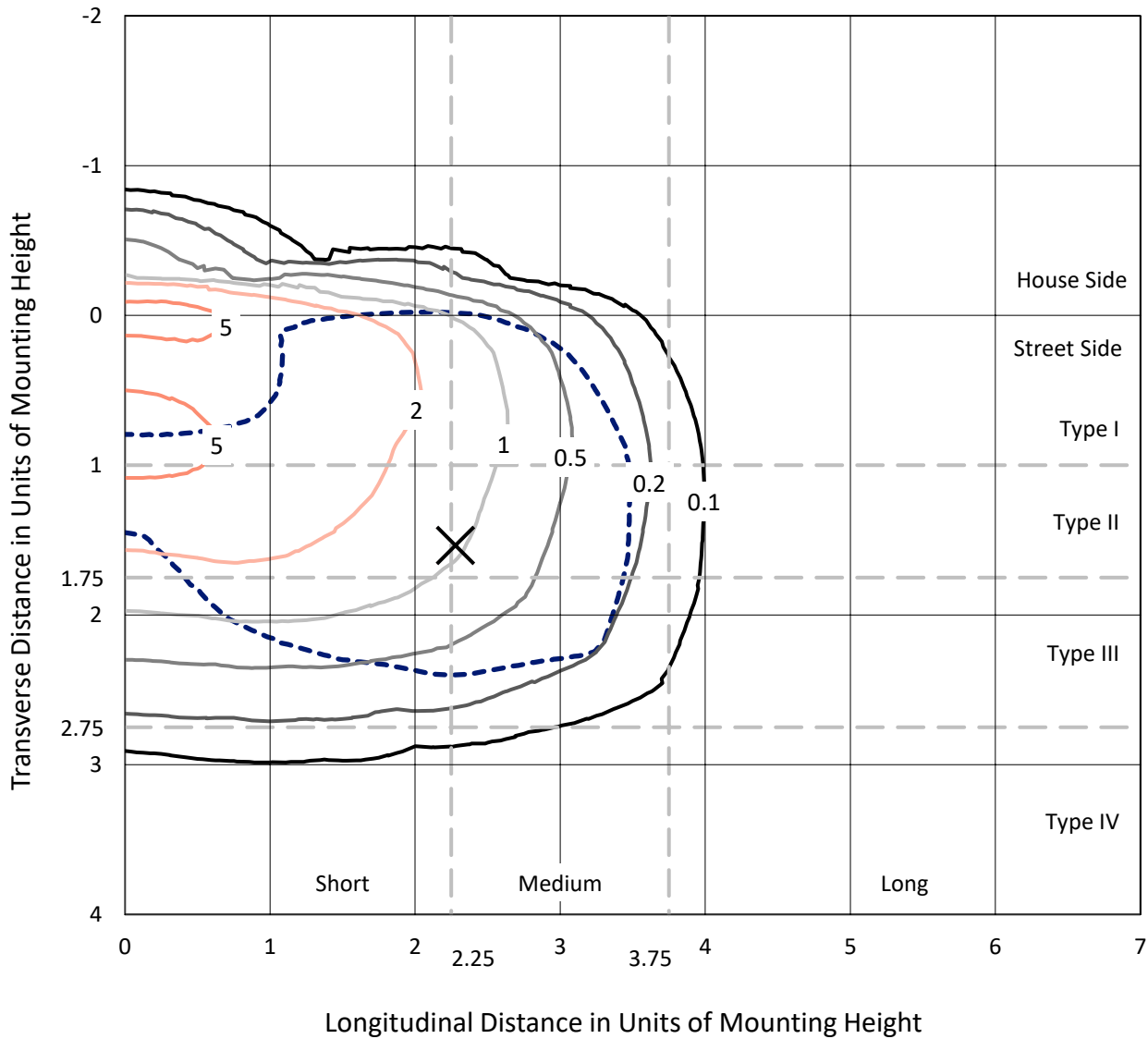
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

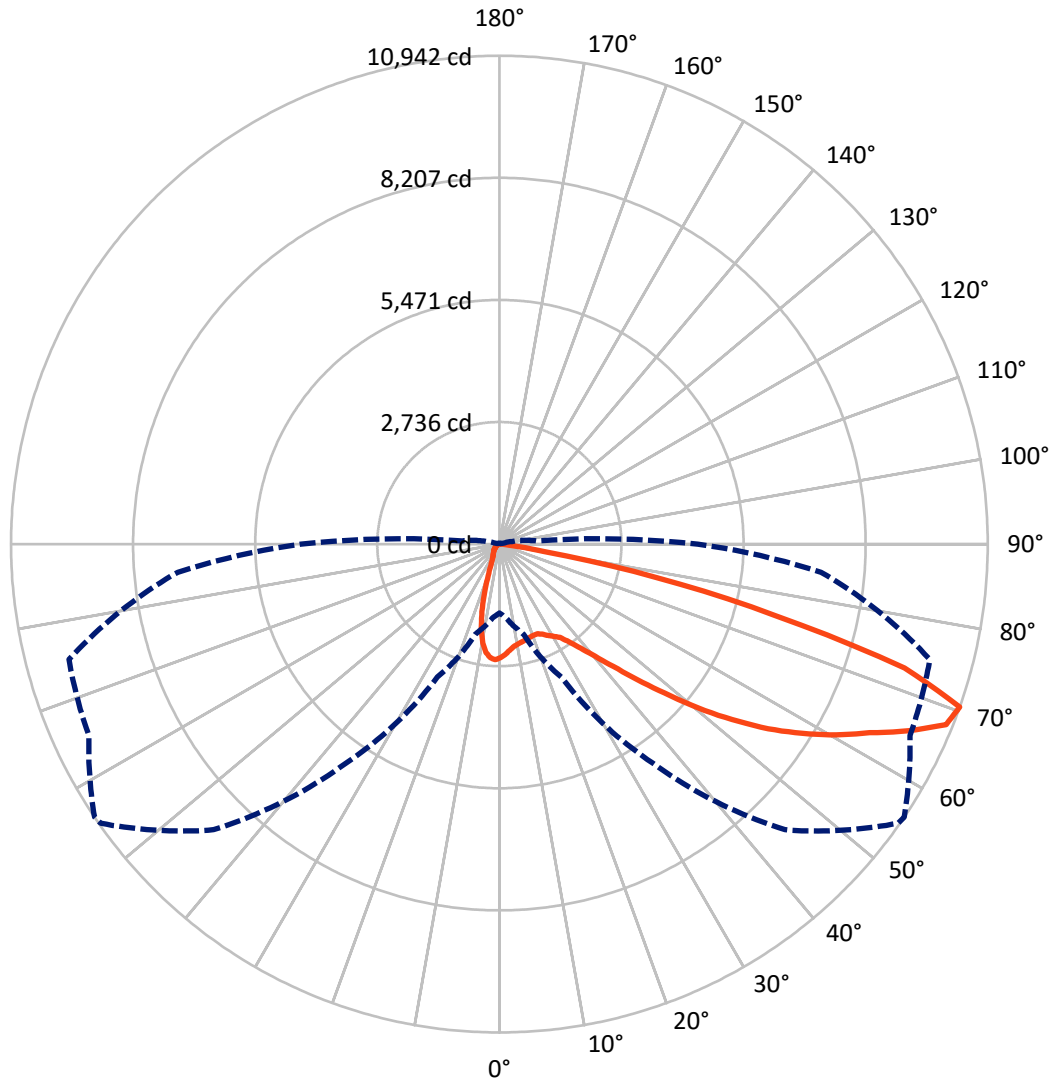
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1268.3	0.0	1268.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	12852.6	0.0	12852.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	14120.9	0.0	14120.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.5
10°-20°	491.7	3.5
20°-30°	778.8	5.5
30°-40°	1343.1	9.5
40°-50°	2268.0	16.1
50°-60°	3332.4	23.6
60°-70°	3950.7	28.0
70°-80°	1684.7	11.9
80°-90°	52.9	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°	14120.9	100.0
0°-180°	14120.9	100.0

Coefficient of Utilization



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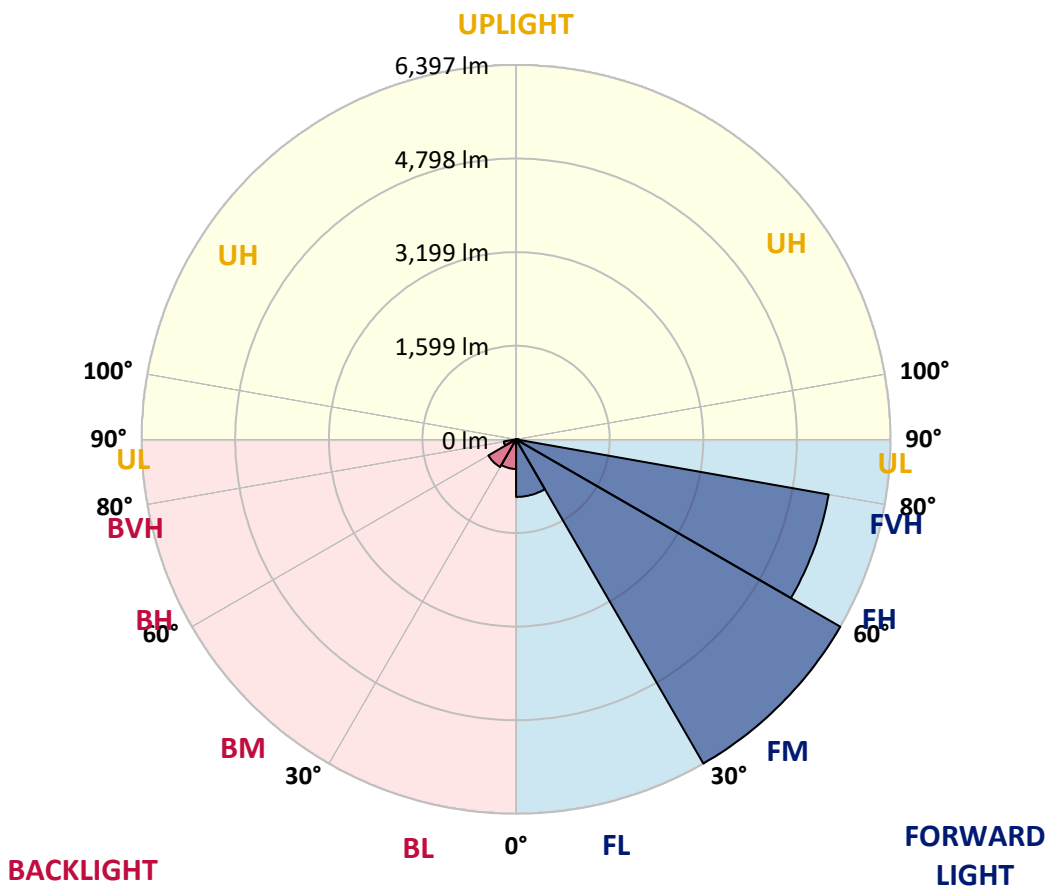
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.0	7.0			
FM (30°-60°)	6397.1	45.3			
FH (60°-80°)	5423.9	38.4			G3/7500
FVH (80°-90°)	47.5	0.3			G1/100
BL (0°-30°)	505.1	3.6	B2/1000		
BM (30°-60°)	546.3	3.9	B1/1000		
BH (60°-80°)	211.5	1.5	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: 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°	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1
2.5°	2370.3	2366.4	2369.0	2388.4	2424.6	2441.4	2469.8	2475.0	2498.3	2528.0	2539.7
5°	2216.4	2203.5	2209.9	2237.1	2278.5	2325.0	2378.0	2392.3	2450.4	2516.4	2565.5
7.5°	2075.4	2061.2	2076.7	2119.4	2177.6	2228.0	2306.9	2316.0	2409.1	2525.5	2614.7
10°	1854.3	1858.2	1889.2	1964.2	2053.5	2158.2	2264.2	2277.2	2392.3	2555.2	2693.6
12.5°	1684.9	1675.9	1709.5	1794.8	1920.3	2072.9	2231.9	2248.7	2393.6	2600.5	2794.4
15°	1606.0	1603.5	1617.7	1679.8	1801.3	1981.0	2202.2	2224.2	2410.4	2641.8	2890.1
17.5°	1608.6	1604.8	1603.5	1639.7	1730.2	1912.5	2169.8	2198.3	2424.6	2687.1	2991.0
20°	1721.1	1703.0	1670.7	1653.9	1708.2	1868.5	2147.9	2180.2	2445.3	2734.9	3098.3
22.5°	1956.5	1962.9	1876.3	1785.8	1759.9	1873.7	2145.3	2182.8	2490.5	2809.9	3230.2
25°	2427.2	2416.8	2256.5	2053.5	1912.5	1933.2	2190.5	2235.8	2579.8	2917.3	3354.3
27.5°	3016.8	3025.9	2806.1	2482.8	2187.9	2056.1	2273.3	2318.6	2683.2	2984.5	3437.1
30°	3659.5	3650.5	3415.1	3056.9	2578.5	2260.4	2356.1	2396.1	2734.9	3020.7	3522.4
32.5°	4267.3	4246.6	4013.8	3638.8	3076.3	2582.3	2469.8	2493.1	2803.5	3099.6	3637.5
35°	4785.8	4784.5	4581.5	4181.9	3588.4	2985.8	2665.1	2684.5	2931.5	3225.0	3806.9
37.5°	5321.2	5303.1	5075.5	4710.8	4114.7	3428.0	2963.8	2956.1	3133.2	3409.9	4015.1
40°	5760.8	5749.2	5574.6	5224.2	4661.7	3916.8	3325.9	3302.6	3372.4	3666.0	4304.8
42.5°	6086.7	6088.0	6033.7	5820.3	5241.0	4481.9	3781.1	3744.9	3743.6	4052.6	4687.5
45°	6333.7	6350.5	6431.9	6399.6	5925.0	5140.1	4364.3	4326.8	4263.4	4554.3	5125.9
47.5°	6448.8	6470.7	6716.4	6845.7	6523.8	5793.1	5058.7	4979.8	4855.6	5221.6	5616.0
50°	6437.1	6475.9	6818.6	7211.7	7066.9	6455.2	5815.1	5777.6	5574.6	5927.6	6100.9
52.5°	6173.3	6256.1	6825.1	7434.1	7484.5	7065.6	6597.5	6527.6	6429.4	6664.7	6556.1
55°	5456.9	5557.8	6552.2	7505.2	7810.4	7598.3	7363.0	7306.1	7143.2	7360.4	6953.1
57.5°	5067.7	5154.4	5978.1	7470.3	8087.1	8091.0	8044.5	7997.9	7863.4	8048.3	7418.6
60°	4833.7	4920.3	5671.6	7342.3	8338.0	8610.8	8684.5	8679.4	8485.4	8830.7	7964.3
62.5°	4491.0	4609.9	5352.2	7010.0	8516.4	9122.9	9345.3	9310.4	9094.5	9645.3	8504.8
65°	3799.2	3902.6	4697.9	6461.7	8411.7	9547.1	10061.7	10079.8	9830.2	10412.1	8931.5
67.5°	2663.8	2740.1	3530.2	5310.8	7700.5	9686.7	10794.9	10793.6	10368.2	10805.3	8742.7
70°	1544.0	1648.7	2085.8	3283.2	5991.0	9051.8	10904.8	10942.3	10149.6	9984.1	7235.0
72.5°	597.4	684.1	1181.9	1744.4	3124.2	6933.7	9380.2	9490.2	8494.5	7701.8	5035.4
75°	178.4	199.1	556.0	928.5	1254.3	3349.2	6350.5	6381.5	5826.8	4803.9	2581.1
77.5°	133.2	147.4	243.1	469.4	439.7	1015.1	3285.8	3588.4	3093.1	1716.0	711.2
80°	90.5	107.3	173.3	228.9	162.9	270.3	923.3	1013.8	944.0	385.3	178.4
82.5°	40.1	51.7	122.8	115.1	59.5	77.6	284.5	302.6	195.3	116.4	62.1
85°	3.9	5.2	46.6	50.4	22.0	18.1	59.5	59.5	42.7	40.1	25.9
87.5°	0.0	0.0	1.3	2.6	2.6	3.9	5.2	6.5	7.8	10.3	12.9
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°	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1
2.5°	2569.4	2553.9	2573.3	2588.8	2592.7	2564.2	2547.4	2522.9	2517.7	2519.0	2512.5
5°	2604.3	2596.6	2610.8	2594.0	2550.0	2467.3	2396.1	2317.3	2274.6	2250.0	2247.4
7.5°	2669.0	2665.1	2649.6	2573.3	2436.2	2252.6	2075.4	1902.2	1794.8	1756.0	1749.6
10°	2764.7	2756.9	2693.6	2512.5	2220.3	1867.3	1569.8	1321.6	1170.3	1126.3	1072.0
12.5°	2874.6	2859.1	2720.7	2381.9	1894.4	1405.6	1034.5	756.5	625.9	587.1	587.1
15°	2980.6	2947.0	2705.2	2166.0	1493.5	914.2	578.0	437.1	397.0	386.6	386.6
17.5°	3089.2	3024.6	2644.4	1871.1	1031.9	540.5	385.3	358.2	353.0	354.3	355.6
20°	3191.4	3090.5	2537.1	1516.8	658.2	377.6	345.3	338.8	336.2	338.8	337.5
22.5°	3302.6	3151.3	2374.2	1130.2	428.0	340.1	328.5	323.3	320.7	324.6	324.6
25°	3412.5	3195.3	2158.2	760.4	340.1	316.8	310.3	305.2	302.6	303.9	303.9
27.5°	3469.4	3178.5	1875.0	484.9	305.2	293.5	287.1	280.6	276.7	275.4	276.7
30°	3508.2	3126.7	1528.5	345.3	276.7	262.5	256.0	250.9	240.5	234.1	236.6
32.5°	3569.0	3075.0	1152.2	289.7	253.5	231.5	221.1	208.2	194.0	187.5	187.5
35°	3641.4	3003.9	808.2	261.2	228.9	205.6	186.2	164.2	147.4	142.2	142.2
37.5°	3737.1	2936.7	537.9	241.8	208.2	183.6	156.5	130.6	112.5	109.9	108.6
40°	3880.6	2879.8	378.9	227.6	190.1	160.3	128.0	100.9	87.9	84.1	84.1
42.5°	4066.8	2821.6	300.0	213.4	174.6	138.4	102.2	80.2	69.8	67.2	65.9
45°	4297.0	2753.0	261.2	200.4	159.1	115.1	81.5	67.2	59.5	56.9	56.9
47.5°	4546.6	2659.9	243.1	183.6	140.9	93.1	68.5	58.2	54.3	53.0	51.7
50°	4792.3	2534.5	227.6	168.1	120.3	76.3	59.5	53.0	50.4	49.1	49.1
52.5°	5006.9	2388.4	208.2	150.0	98.3	65.9	53.0	49.1	46.6	44.0	42.7
55°	5190.6	2229.3	183.6	129.3	80.2	58.2	49.1	45.3	42.7	40.1	38.8
57.5°	5427.2	2138.8	147.4	104.7	65.9	51.7	45.3	41.4	38.8	34.9	34.9
60°	5689.7	2072.9	109.9	82.8	56.9	47.8	41.4	37.5	34.9	31.0	31.0
62.5°	5900.5	1974.6	86.6	67.2	49.1	42.7	37.5	33.6	31.0	27.2	27.2
65°	5980.6	1771.6	71.1	53.0	40.1	37.5	33.6	31.0	27.2	23.3	23.3
67.5°	5618.6	1365.5	59.5	42.7	33.6	32.3	29.7	28.4	23.3	20.7	19.4
70°	4449.6	832.8	49.1	34.9	28.4	27.2	27.2	24.6	20.7	19.4	18.1
72.5°	3049.2	429.3	40.1	28.4	24.6	24.6	23.3	22.0	19.4	18.1	18.1
75°	1584.1	143.5	31.0	22.0	19.4	20.7	20.7	19.4	18.1	18.1	16.8
77.5°	453.9	64.7	23.3	16.8	15.5	15.5	16.8	16.8	16.8	15.5	15.5
80°	117.7	37.5	16.8	12.9	12.9	12.9	12.9	14.2	15.5	14.2	14.2
82.5°	47.8	20.7	11.6	10.3	10.3	10.3	10.3	11.6	12.9	12.9	12.9
85°	29.7	10.3	9.1	9.1	9.1	7.8	7.8	9.1	9.1	10.3	10.3
87.5°	18.1	7.8	7.8	7.8	7.8	6.5	6.5	6.5	6.5	6.5	6.5
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)