

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: P640305

Luminaire Tested: GWS-SA5D-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640305
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-SA5D-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23018.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

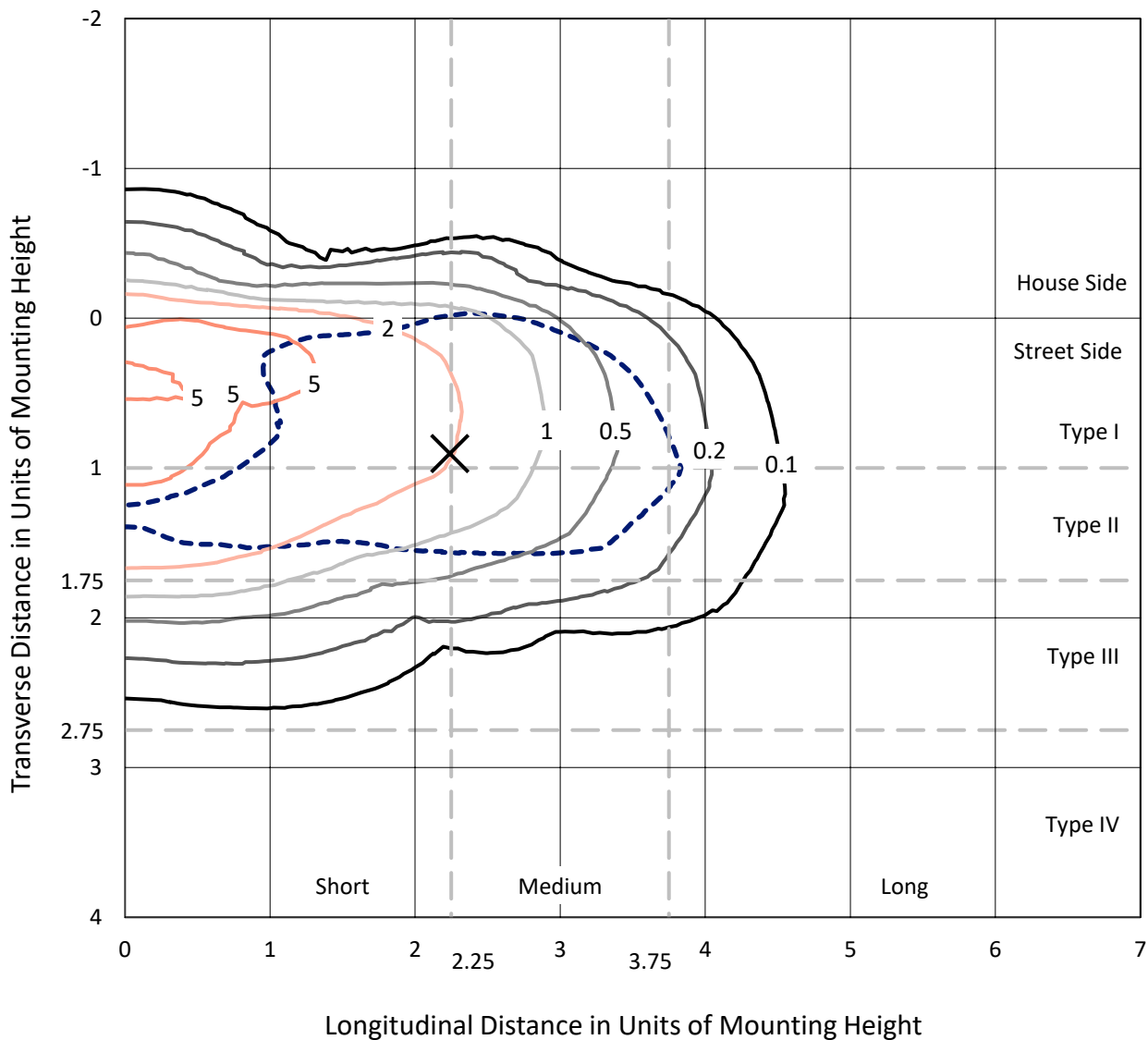
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

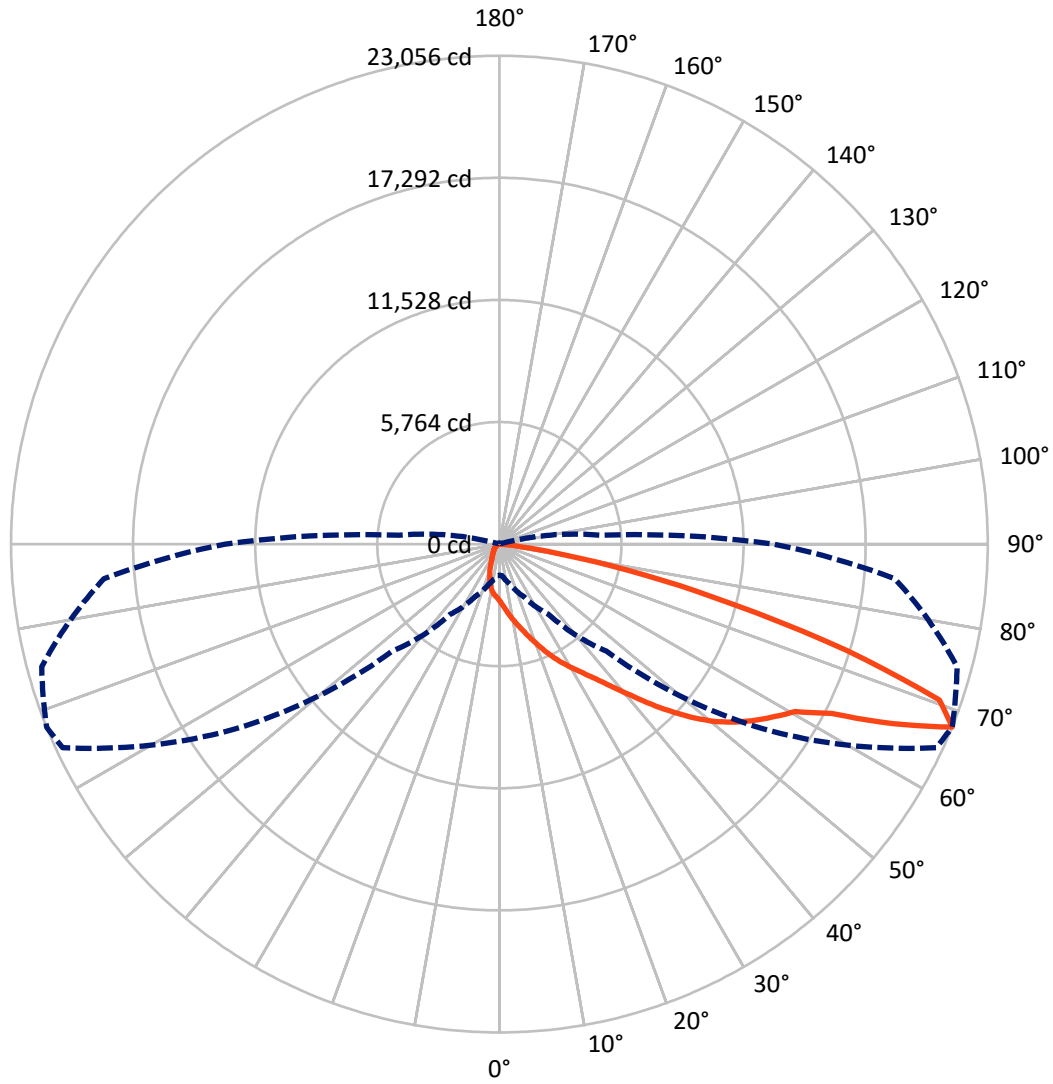
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1662.2	0.0	1662.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21355.9	0.0	21355.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	23018.1	0.0	23018.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	1.1
10°-20°	750.3	3.3
20°-30°	1289.3	5.6
30°-40°	2241.6	9.7
40°-50°	3911.4	17.0
50°-60°	5899.4	25.6
60°-70°	5915.6	25.7
70°-80°	2609.9	11.3
80°-90°	139.4	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°	23018.1	100.0
0°-180°	23018.1	100.0

Coefficient of Utilization

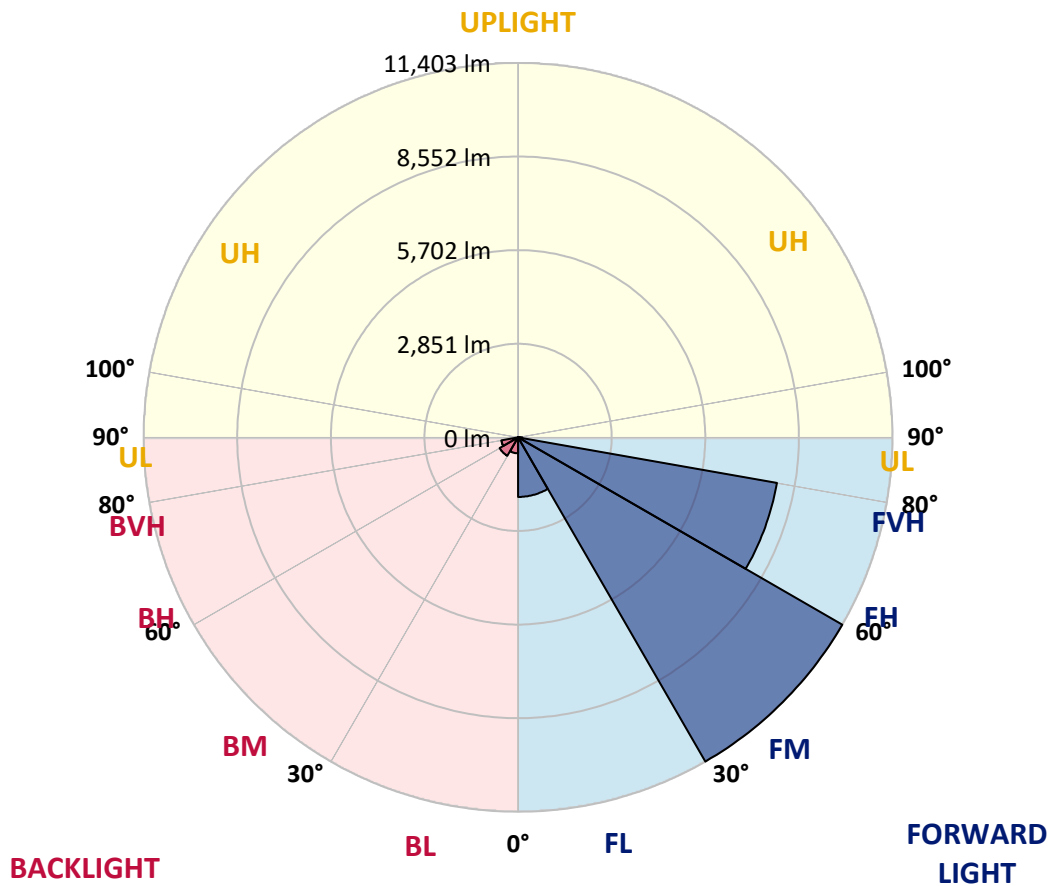


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.5	7.9			
FM (30°-60°)	11403.1	49.5			
FH (60°-80°)	8006.7	34.8			G4/12000
FVH (80°-90°)	131.5	0.6			G2/225
BL (0°-30°)	486.3	2.1	B1/500		
BM (30°-60°)	649.3	2.8	B1/1000		
BH (60°-80°)	518.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.9	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7
2.5°	3119.3	3139.1	3119.3	3123.7	3066.4	3040.0	2982.7	2903.4	2883.6	2832.9	2755.8
5°	3500.4	3518.0	3498.2	3493.8	3427.7	3379.2	3284.5	3147.9	3108.3	3009.2	2857.2
7.5°	3707.5	3718.5	3725.1	3736.1	3711.9	3672.2	3586.3	3416.7	3374.8	3214.0	3000.3
10°	3729.5	3738.3	3771.4	3837.4	3885.9	3910.1	3861.7	3705.3	3639.2	3482.8	3176.6
12.5°	3667.8	3681.0	3733.9	3844.1	3978.4	4101.8	4132.6	3996.1	3936.6	3736.1	3383.6
15°	3586.3	3597.3	3670.0	3819.8	4022.5	4249.4	4377.2	4317.7	4251.6	4042.3	3612.7
17.5°	3460.7	3476.2	3577.5	3780.2	4042.3	4366.1	4641.5	4661.3	4615.1	4388.2	3866.1
20°	3390.3	3401.3	3491.6	3700.9	4029.1	4452.1	4888.2	5075.5	5024.8	4786.9	4156.9
22.5°	3449.7	3458.5	3518.0	3681.0	3985.0	4500.5	5117.3	5489.6	5461.0	5214.3	4463.1
25°	3762.5	3791.2	3755.9	3784.6	4004.9	4527.0	5302.4	5903.8	5910.4	5661.4	4780.3
27.5°	4397.0	4359.5	4275.8	4132.6	4159.1	4597.4	5461.0	6293.7	6350.9	6097.6	5062.3
30°	5042.4	5020.4	4969.7	4747.2	4562.2	4753.8	5595.4	6692.4	6782.7	6527.2	5313.4
32.5°	5767.2	5789.2	5698.9	5432.3	5117.3	5071.1	5734.1	7071.3	7240.9	7014.0	5608.6
35°	6632.9	6639.5	6461.1	6165.9	5809.0	5595.4	5983.1	7489.8	7802.7	7635.2	6002.9
37.5°	7476.6	7516.3	7419.4	6954.5	6637.3	6247.4	6395.0	8027.4	8467.9	8401.8	6498.5
40°	8223.4	8285.1	8254.3	7804.9	7388.5	7060.3	7033.8	8657.4	9272.0	9346.9	7152.8
42.5°	8818.2	8857.8	8882.1	8562.7	8194.8	8009.7	7822.5	9388.7	10221.4	10527.6	7954.7
45°	9446.0	9459.2	9509.9	9294.0	8972.4	8987.8	8754.3	10276.5	11221.6	11836.2	8875.5
47.5°	10245.7	10289.7	10265.5	10038.6	9747.8	9921.8	9717.0	11190.7	12208.4	13232.8	9818.3
50°	11219.3	11265.6	11243.6	10979.2	10655.4	10728.1	10600.3	12078.5	13160.1	14550.1	10602.5
52.5°	11721.6	11759.1	12032.2	12151.2	11981.6	11518.9	11353.7	13054.4	13964.2	15634.0	11322.9
55°	11479.3	11505.7	12100.5	12602.8	13224.0	12761.4	12111.5	13807.8	14673.5	16479.9	11858.2
57.5°	10474.8	10618.0	11426.4	12276.7	13583.1	13988.4	13340.7	14627.2	15356.4	17068.0	12384.7
60°	8415.1	8408.5	9567.2	11093.8	12882.5	14325.4	15076.6	15735.3	16041.5	17519.6	13089.6
62.5°	4650.3	4692.2	6234.2	8245.4	10935.2	13453.1	16378.5	17649.6	17603.3	18308.3	14193.3
65°	2315.2	2399.0	3236.1	4723.0	7276.2	11118.0	16603.2	20570.6	20438.5	20165.3	16473.3
67.5°	1469.3	1502.4	1965.0	2744.8	4044.5	7146.2	15204.4	22749.3	23055.5	22368.2	18735.6
70°	951.7	1006.7	1365.8	1876.9	2440.8	3683.2	11137.8	21337.3	22040.0	22125.9	17325.8
72.5°	517.7	557.3	872.3	1339.4	1762.3	1841.6	6256.2	16012.9	17142.9	18768.7	13554.4
75°	295.2	323.8	478.0	909.8	1293.1	1121.3	2773.4	10719.3	11439.6	13413.4	9712.6
77.5°	178.4	202.7	268.8	442.8	810.7	749.0	1048.6	6525.0	6983.2	8003.1	5097.5
80°	81.5	96.9	169.6	244.5	442.8	354.7	400.9	3042.2	3141.3	3284.5	1687.4
82.5°	37.4	44.1	77.1	145.4	251.1	204.9	154.2	702.7	989.1	936.2	429.6
85°	4.4	4.4	28.6	59.5	70.5	52.9	63.9	158.6	200.5	282.0	123.4
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	13.2	19.8	28.6	46.3	30.8
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°	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7	2678.7
2.5°	2720.6	2658.9	2603.8	2522.3	2467.2	2405.6	2363.7	2313.0	2293.2	2277.8	2255.8
5°	2782.3	2683.1	2548.8	2399.0	2275.6	2158.8	2050.9	1980.4	1918.7	1909.9	1879.1
7.5°	2883.6	2736.0	2509.1	2264.6	2055.3	1861.4	1709.4	1586.1	1524.4	1504.6	1469.3
10°	3018.0	2815.3	2449.6	2075.1	1773.3	1542.0	1370.2	1231.4	1134.5	1099.2	1072.8
12.5°	3167.8	2888.0	2354.9	1841.6	1498.0	1233.6	1015.5	867.9	806.3	784.2	764.4
15°	3339.6	2956.3	2205.1	1608.1	1229.2	907.6	753.4	689.5	663.1	656.5	649.9
17.5°	3504.8	3000.3	2026.7	1365.8	945.0	704.9	632.2	608.0	601.4	594.8	590.4
20°	3692.1	3031.2	1817.4	1136.7	733.6	597.0	561.7	544.1	530.9	517.7	515.5
22.5°	3883.7	3031.2	1590.5	912.0	614.6	535.3	495.7	462.6	438.4	425.2	420.8
25°	4066.5	2989.3	1365.8	729.2	541.9	475.8	425.2	387.7	354.7	339.2	334.8
27.5°	4196.5	2881.4	1169.7	616.8	491.2	423.0	361.3	319.4	293.0	277.6	275.4
30°	4278.0	2720.6	989.1	550.7	447.2	367.9	306.2	271.0	251.1	240.1	235.7
32.5°	4339.7	2522.3	828.3	504.5	405.3	319.4	266.6	237.9	220.3	211.5	209.3
35°	4463.1	2335.1	709.3	462.6	361.3	279.8	233.5	211.5	198.3	187.2	185.0
37.5°	4634.9	2178.7	614.6	425.2	319.4	248.9	211.5	191.7	180.6	169.6	167.4
40°	4888.2	2079.5	544.1	387.7	282.0	224.7	193.9	176.2	160.8	149.8	147.6
42.5°	5278.1	2033.3	497.9	350.3	248.9	202.7	178.4	156.4	141.0	130.0	127.8
45°	5742.9	2057.5	458.2	312.8	226.9	187.2	158.6	136.6	121.2	110.1	107.9
47.5°	6240.8	2143.4	425.2	277.6	204.9	171.8	141.0	116.8	103.5	92.5	90.3
50°	6760.7	2284.4	396.5	244.5	187.2	154.2	121.2	101.3	88.1	79.3	77.1
52.5°	7212.3	2476.1	367.9	220.3	171.8	136.6	105.7	88.1	74.9	66.1	63.9
55°	7644.0	2656.7	345.9	198.3	154.2	119.0	92.5	74.9	63.9	55.1	52.9
57.5°	8113.3	2848.3	319.4	178.4	138.8	105.7	81.5	63.9	55.1	46.3	44.1
60°	8796.2	3132.5	279.8	163.0	121.2	92.5	70.5	57.3	48.5	37.4	35.2
62.5°	9780.9	3650.2	235.7	141.0	103.5	79.3	59.5	48.5	39.7	30.8	26.4
65°	11622.5	4531.4	193.9	116.8	83.7	66.1	50.7	39.7	30.8	22.0	19.8
67.5°	12948.6	4760.5	156.4	94.7	68.3	50.7	41.9	30.8	22.0	15.4	13.2
70°	11320.7	3418.9	121.2	77.1	57.3	39.7	33.0	24.2	15.4	11.0	8.8
72.5°	8529.6	2233.7	90.3	59.5	44.1	33.0	24.2	19.8	13.2	8.8	6.6
75°	6011.7	1290.9	66.1	44.1	30.8	24.2	19.8	15.4	11.0	6.6	6.6
77.5°	3081.9	533.1	46.3	30.8	22.0	15.4	13.2	8.8	8.8	6.6	4.4
80°	936.2	176.2	26.4	19.8	15.4	11.0	6.6	6.6	6.6	4.4	2.2
82.5°	213.7	57.3	15.4	15.4	11.0	8.8	6.6	2.2	2.2	0.0	0.0
85°	55.1	17.6	13.2	11.0	11.0	8.8	4.4	2.2	0.0	0.0	0.0
87.5°	19.8	11.0	11.0	11.0	8.8	6.6	4.4	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)