

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: P640855

Luminaire Tested: GWS-SA5E-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640855
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-SA5E-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28370.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

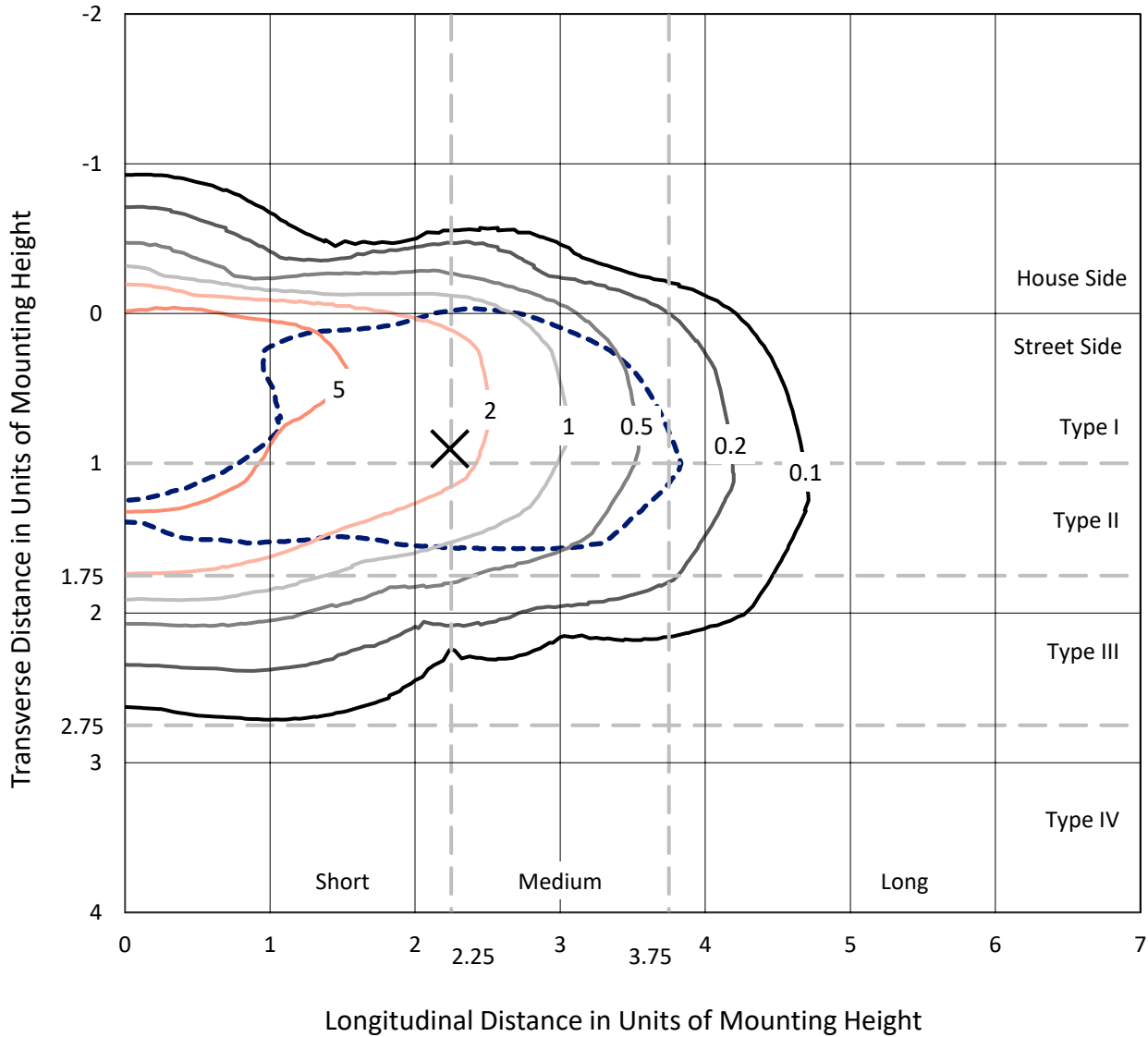
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

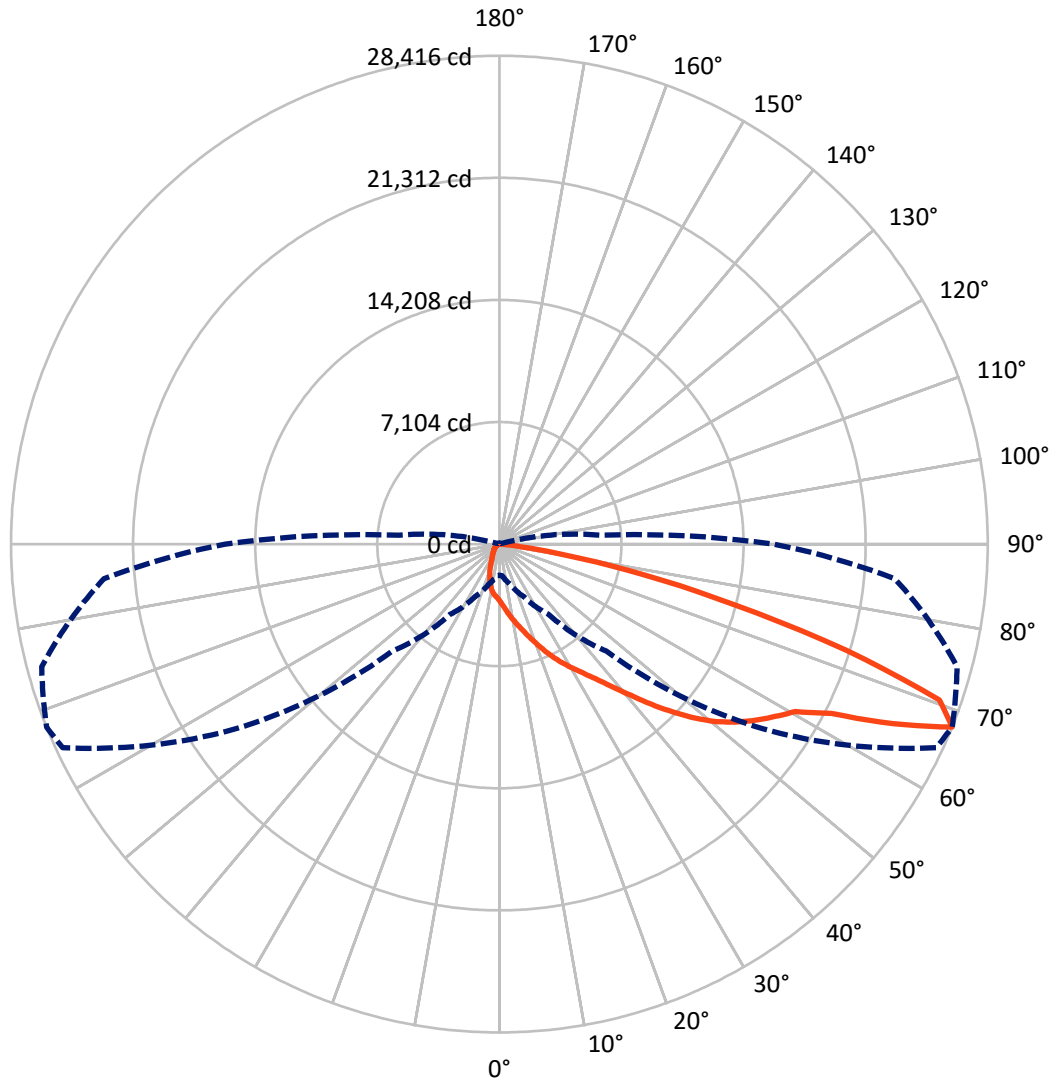
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2048.7	0.0	2048.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26321.6	0.0	26321.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	28370.3	0.0	28370.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	1.1
10°-20°	924.7	3.3
20°-30°	1589.1	5.6
30°-40°	2762.8	9.7
40°-50°	4820.9	17.0
50°-60°	7271.1	25.6
60°-70°	7291.0	25.7
70°-80°	3216.8	11.3
80°-90°	171.8	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°	28370.3	100.0
0°-180°	28370.3	100.0

Coefficient of Utilization



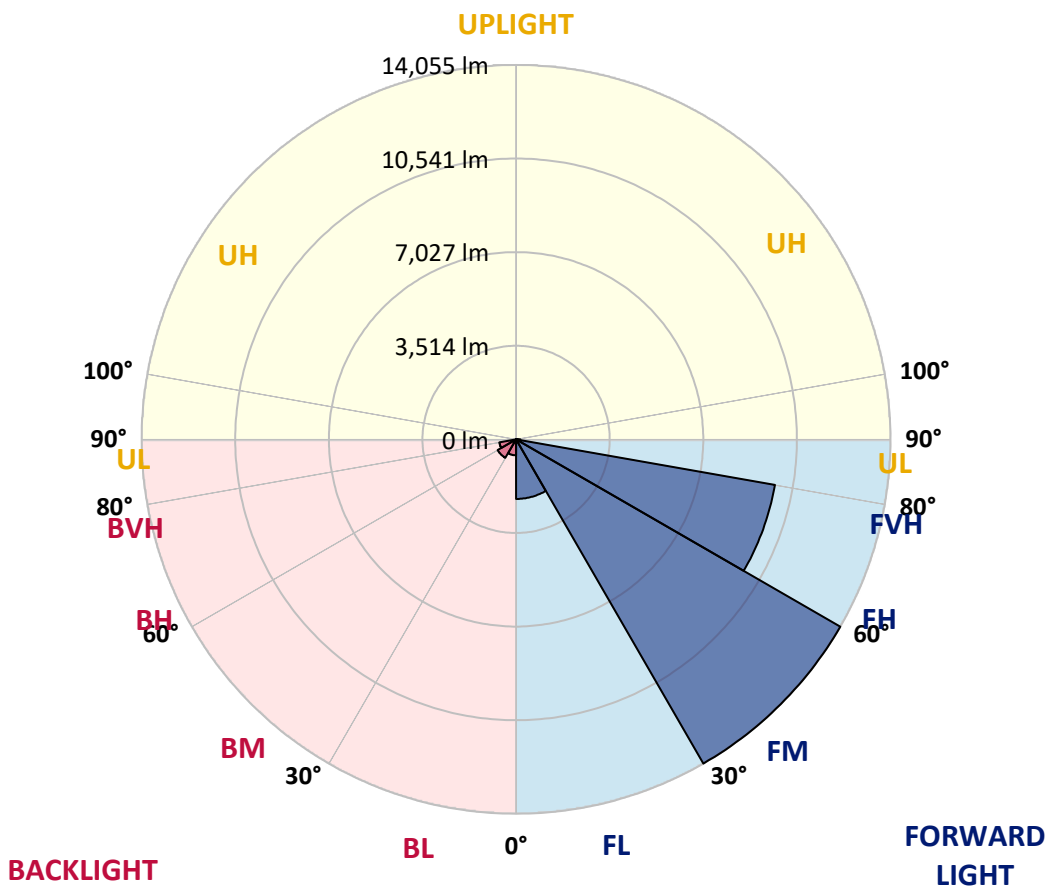
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.4	7.9			
FM (30°-60°)	14054.6	49.5			
FH (60°-80°)	9868.5	34.8			G4/12000
FVH (80°-90°)	162.1	0.6			G2/225
BL (0°-30°)	599.4	2.1	B2/1000		
BM (30°-60°)	800.2	2.8	B1/1000		
BH (60°-80°)	639.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.7	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°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3844.6	3869.0	3844.6	3850.0	3779.4	3746.9	3676.3	3578.5	3554.1	3491.6	3396.6
5°	4314.3	4336.0	4311.6	4306.2	4224.7	4165.0	4048.2	3879.9	3831.0	3708.8	3521.5
7.5°	4569.5	4583.1	4591.3	4604.8	4575.0	4526.1	4420.2	4211.1	4159.6	3961.4	3698.0
10°	4596.7	4607.6	4648.3	4729.7	4789.5	4819.3	4759.6	4566.8	4485.4	4292.6	3915.2
12.5°	4520.7	4537.0	4602.1	4737.9	4903.5	5055.5	5093.6	4925.2	4851.9	4604.8	4170.4
15°	4420.2	4433.8	4523.4	4708.0	4957.8	5237.5	5394.9	5321.6	5240.2	4982.2	4452.8
17.5°	4265.4	4284.5	4409.3	4659.1	4982.2	5381.4	5720.8	5745.2	5688.2	5408.5	4765.0
20°	4178.6	4192.1	4303.5	4561.4	4965.9	5487.3	6024.8	6255.6	6193.2	5899.9	5123.4
22.5°	4251.9	4262.7	4336.0	4537.0	4911.6	5547.0	6307.2	6766.1	6730.8	6426.7	5500.8
25°	4637.4	4672.7	4629.3	4664.6	4936.1	5579.6	6535.3	7276.5	7284.7	6977.8	5891.8
27.5°	5419.4	5373.2	5270.0	5093.6	5126.1	5666.4	6730.8	7757.1	7827.7	7515.4	6239.3
30°	6214.9	6187.8	6125.3	5851.1	5623.0	5859.2	6896.4	8248.5	8359.8	8044.9	6548.9
32.5°	7108.2	7135.3	7024.0	6695.5	6307.2	6250.2	7067.4	8715.5	8924.6	8644.9	6912.7
35°	8175.2	8183.4	7963.4	7599.6	7159.8	6896.4	7374.3	9231.4	9616.9	9410.6	7398.7
37.5°	9215.1	9264.0	9144.5	8571.6	8180.6	7700.1	7882.0	9893.9	10436.9	10355.5	8009.6
40°	10135.5	10211.6	10173.5	9619.7	9106.5	8701.9	8669.4	10670.4	11427.9	11520.2	8816.0
42.5°	10868.6	10917.5	10947.3	10553.7	10100.2	9872.2	9641.4	11571.8	12598.1	12975.5	9804.3
45°	11642.4	11658.7	11721.2	11455.1	11058.7	11077.7	10789.9	12666.0	13830.8	14588.3	10939.2
47.5°	12628.0	12682.3	12652.4	12372.8	12014.4	12228.9	11976.4	13792.8	15047.2	16309.7	12101.3
50°	13828.1	13885.1	13858.0	13532.1	13133.0	13222.6	13065.1	14887.0	16220.1	17933.3	13067.9
52.5°	14447.1	14493.3	14830.0	14976.6	14767.5	14197.3	13993.7	16089.8	17211.1	19269.2	13955.7
55°	14148.5	14181.1	14914.1	15533.2	16298.8	15728.7	14927.7	17018.3	18085.4	20311.8	14615.5
57.5°	12910.4	13086.9	14083.3	15131.3	16741.4	17241.0	16442.7	18028.4	18927.1	21036.7	15264.4
60°	10371.7	10363.6	11791.8	13673.3	15878.0	17656.4	18582.3	19394.1	19771.5	21593.3	16133.2
62.5°	5731.6	5783.2	7683.8	10162.7	13477.8	16581.2	20186.9	21753.5	21696.5	22565.3	17493.5
65°	2853.6	2956.8	3988.5	5821.2	8968.0	13703.2	20463.8	25353.8	25190.8	24854.2	20303.6
67.5°	1811.0	1851.7	2421.9	3383.0	4985.0	8807.8	18739.7	28039.0	28416.4	27569.3	23092.1
70°	1172.9	1240.8	1683.4	2313.3	3008.3	4539.7	13727.6	26298.6	27164.7	27270.6	21354.4
72.5°	638.1	686.9	1075.2	1650.8	2172.1	2269.8	7710.9	19736.2	21129.0	23132.8	16706.1
75°	363.8	399.1	589.2	1121.3	1593.8	1382.0	3418.3	13211.8	14099.6	16532.3	11970.9
77.5°	219.9	249.8	331.2	545.7	999.2	923.1	1292.4	8042.2	8606.9	9864.0	6282.8
80°	100.5	119.5	209.1	301.4	545.7	437.1	494.2	3749.6	3871.8	4048.2	2079.8
82.5°	46.2	54.3	95.0	179.2	309.5	252.5	190.1	866.1	1219.1	1153.9	529.4
85°	5.4	5.4	35.3	73.3	86.9	65.2	78.7	195.5	247.1	347.5	152.0
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	16.3	24.4	35.3	57.0	38.0
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°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3353.2	3277.1	3209.3	3108.8	3040.9	2964.9	2913.3	2850.9	2826.4	2807.4	2780.3
5°	3429.2	3307.0	3141.4	2956.8	2804.7	2660.8	2527.8	2440.9	2364.9	2354.0	2316.0
7.5°	3554.1	3372.2	3092.5	2791.1	2533.2	2294.3	2106.9	1954.9	1878.9	1854.4	1811.0
10°	3719.7	3469.9	3019.2	2557.6	2185.7	1900.6	1688.8	1517.8	1398.3	1354.8	1322.3
12.5°	3904.3	3559.5	2902.5	2269.8	1846.3	1520.5	1251.7	1069.8	993.7	966.6	942.1
15°	4116.1	3643.7	2717.8	1982.0	1515.0	1118.6	928.6	849.8	817.3	809.1	801.0
17.5°	4319.8	3698.0	2497.9	1683.4	1164.8	868.8	779.2	749.4	741.2	733.1	727.7
20°	4550.5	3736.0	2240.0	1401.0	904.1	735.8	692.4	670.6	654.3	638.1	635.3
22.5°	4786.8	3736.0	1960.3	1124.1	757.5	659.8	610.9	570.2	540.3	524.0	518.6
25°	5012.1	3684.4	1683.4	898.7	667.9	586.5	524.0	477.9	437.1	418.1	412.7
27.5°	5172.3	3551.4	1441.7	760.2	605.5	521.3	445.3	393.7	361.1	342.1	339.4
30°	5272.8	3353.2	1219.1	678.8	551.2	453.4	377.4	334.0	309.5	295.9	290.5
32.5°	5348.8	3108.8	1020.9	621.8	499.6	393.7	328.5	293.2	271.5	260.7	257.9
35°	5500.8	2878.0	874.3	570.2	445.3	344.8	287.8	260.7	244.4	230.8	228.1
37.5°	5712.6	2685.3	757.5	524.0	393.7	306.8	260.7	236.2	222.6	209.1	206.3
40°	6024.8	2563.1	670.6	477.9	347.5	276.9	238.9	217.2	198.2	184.6	181.9
42.5°	6505.4	2506.1	613.6	431.7	306.8	249.8	219.9	192.8	173.8	160.2	157.5
45°	7078.3	2535.9	564.7	385.5	279.7	230.8	195.5	168.3	149.3	135.8	133.0
47.5°	7691.9	2641.8	524.0	342.1	252.5	211.8	173.8	143.9	127.6	114.0	111.3
50°	8332.7	2815.6	488.7	301.4	230.8	190.1	149.3	124.9	108.6	97.7	95.0
52.5°	8889.3	3051.8	453.4	271.5	211.8	168.3	130.3	108.6	92.3	81.5	78.7
55°	9421.5	3274.4	426.3	244.4	190.1	146.6	114.0	92.3	78.7	67.9	65.2
57.5°	9999.8	3510.6	393.7	219.9	171.1	130.3	100.5	78.7	67.9	57.0	54.3
60°	10841.5	3860.9	344.8	200.9	149.3	114.0	86.9	70.6	59.7	46.2	43.4
62.5°	12055.1	4498.9	290.5	173.8	127.6	97.7	73.3	59.7	48.9	38.0	32.6
65°	14325.0	5585.0	238.9	143.9	103.2	81.5	62.4	48.9	38.0	27.2	24.4
67.5°	15959.5	5867.4	192.8	116.8	84.2	62.4	51.6	38.0	27.2	19.0	16.3
70°	13953.0	4213.9	149.3	95.0	70.6	48.9	40.7	29.9	19.0	13.6	10.9
72.5°	10512.9	2753.1	111.3	73.3	54.3	40.7	29.9	24.4	16.3	10.9	8.1
75°	7409.6	1591.1	81.5	54.3	38.0	29.9	24.4	19.0	13.6	8.1	8.1
77.5°	3798.4	657.1	57.0	38.0	27.2	19.0	16.3	10.9	10.9	8.1	5.4
80°	1153.9	217.2	32.6	24.4	19.0	13.6	8.1	8.1	8.1	5.4	2.7
82.5°	263.4	70.6	19.0	19.0	13.6	10.9	8.1	2.7	2.7	0.0	0.0
85°	67.9	21.7	16.3	13.6	13.6	10.9	5.4	2.7	0.0	0.0	0.0
87.5°	24.4	13.6	13.6	13.6	10.9	8.1	5.4	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)