

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: P640237

Luminaire Tested: GWS-SA5D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23669.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

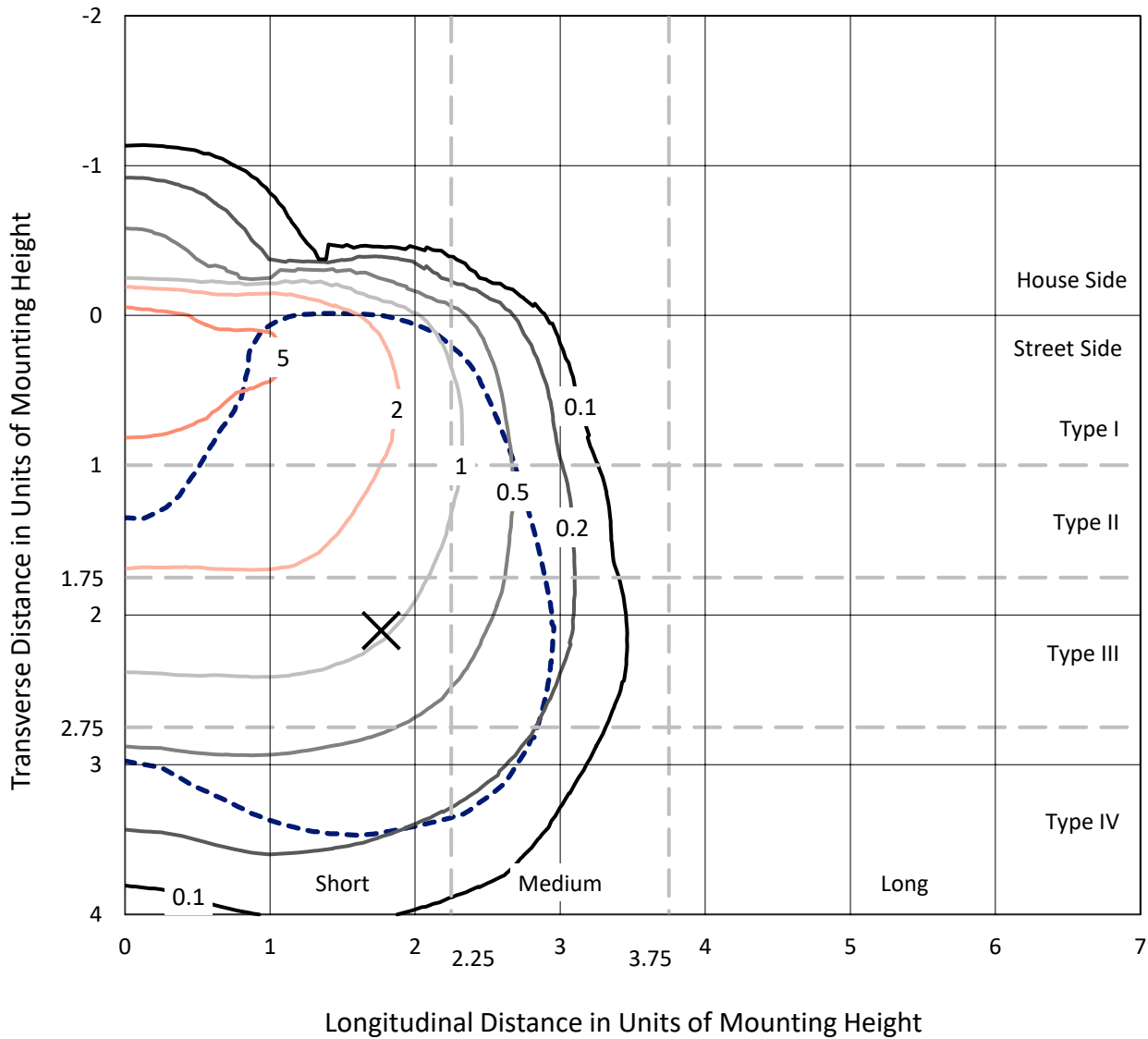
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

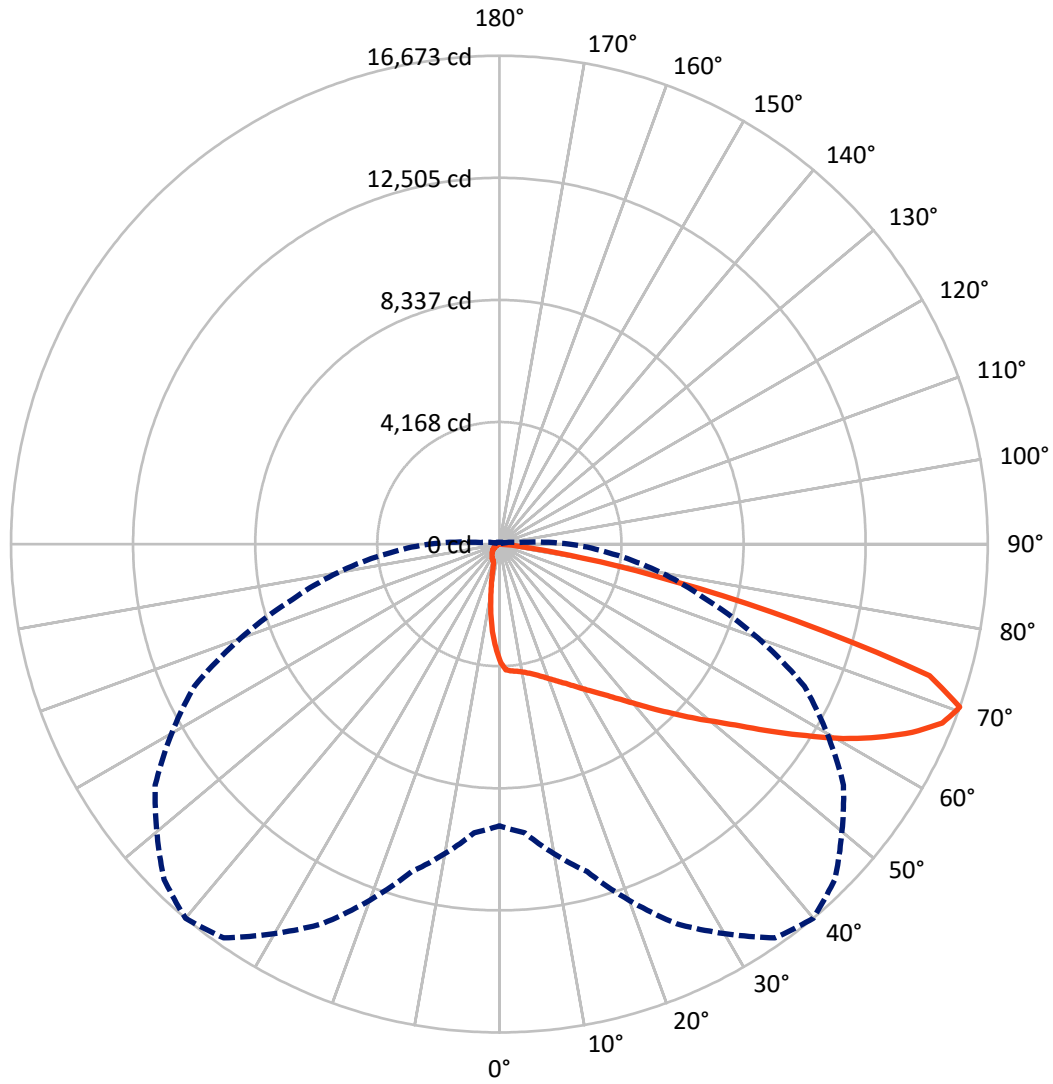
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P640237
CATALOG NUMBER: GWS-SA5D-740-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1935.6	0.0	1935.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	21734.0	0.0	21734.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	23669.6	0.0	23669.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	1.4
10°-20°	861.0	3.6
20°-30°	1441.0	6.1
30°-40°	2263.3	9.6
40°-50°	3579.9	15.1
50°-60°	5222.2	22.1
60°-70°	6473.7	27.4
70°-80°	3275.3	13.8
80°-90°	213.8	0.9
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°	23669.6	100.0
0°-180°	23669.6	100.0

Coefficient of Utilization

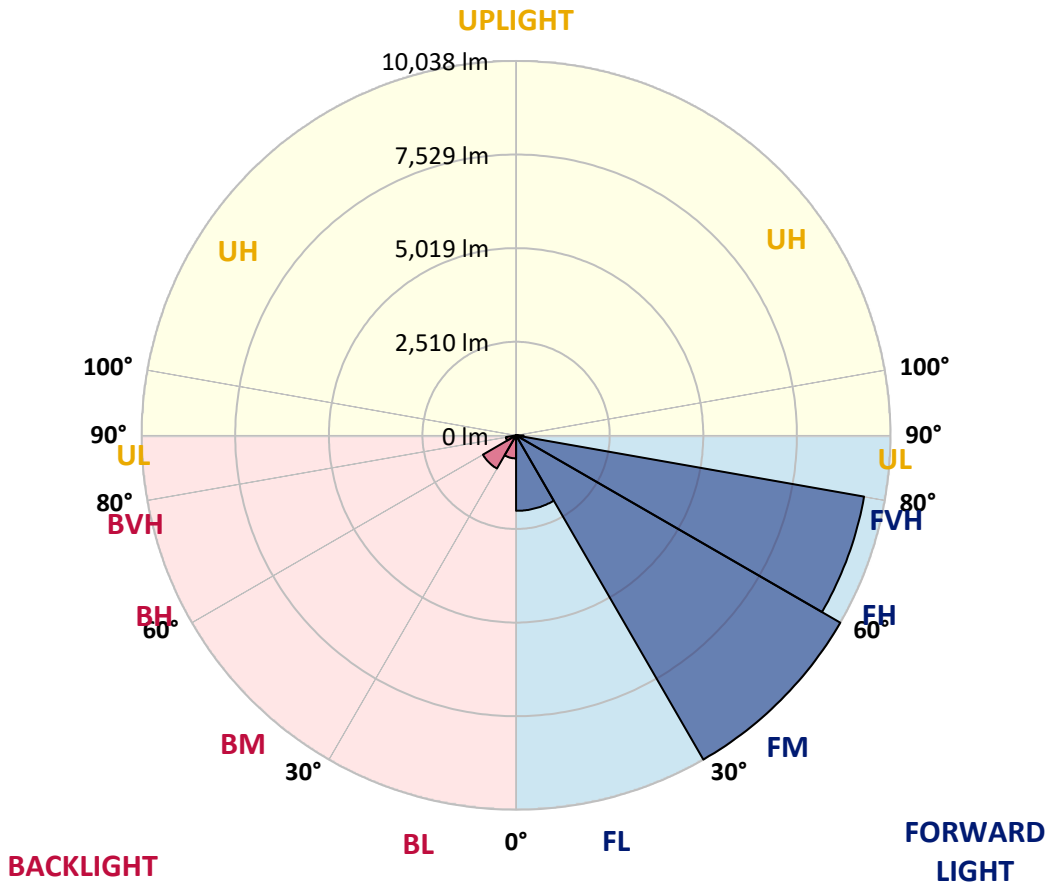


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.3	8.5			
FM (30°-60°)	10038.0	42.4			
FH (60°-80°)	9473.0	40.0			G4/12000
FVH (80°-90°)	199.7	0.8			G2/225
BL (0°-30°)	618.1	2.6	B2/1000		
BM (30°-60°)	1027.4	4.3	B2/2500		
BH (60°-80°)	276.0	1.2	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CATALOG NUMBER: GWS-SA5D-740-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4
2.5°	4318.0	4333.0	4330.9	4337.3	4322.3	4298.6	4294.3	4262.0	4203.8	4130.6	4048.8
5°	4406.2	4423.5	4410.6	4404.1	4376.1	4350.3	4343.8	4309.3	4242.6	4143.5	4001.4
7.5°	4481.6	4485.9	4477.3	4462.2	4421.3	4386.9	4363.2	4315.8	4236.1	4137.0	3973.4
10°	4494.5	4492.4	4496.7	4498.9	4473.0	4442.9	4423.5	4358.9	4257.6	4152.1	3975.5
12.5°	4479.5	4479.5	4507.5	4539.8	4539.8	4524.7	4505.3	4447.2	4328.7	4203.8	4018.6
15°	4498.9	4505.3	4559.2	4619.5	4638.8	4623.8	4615.1	4554.8	4432.1	4294.3	4096.1
17.5°	4567.8	4574.2	4660.4	4750.8	4774.5	4757.3	4740.1	4679.8	4548.4	4397.6	4184.4
20°	4669.0	4686.2	4796.0	4912.3	4933.9	4912.3	4877.9	4793.9	4662.5	4509.6	4268.4
22.5°	4854.2	4865.0	4983.4	5106.2	5116.9	5082.5	5030.8	4914.5	4776.7	4628.1	4363.2
25°	5099.7	5114.8	5233.2	5351.7	5323.7	5272.0	5200.9	5069.6	4912.3	4768.1	4483.8
27.5°	5392.6	5409.8	5526.1	5629.5	5556.3	5496.0	5416.3	5252.6	5093.2	4961.9	4638.8
30°	5709.2	5724.2	5827.6	5920.2	5823.3	5752.2	5657.5	5489.5	5328.0	5228.9	4858.5
32.5°	6015.0	6012.8	6111.9	6187.3	6088.2	6032.2	5946.1	5775.9	5646.7	5603.6	5185.8
35°	6299.3	6299.3	6381.1	6456.5	6385.4	6355.2	6275.6	6139.9	6066.7	6118.4	5623.0
37.5°	6585.7	6570.6	6648.1	6732.1	6725.7	6727.8	6682.6	6618.0	6622.3	6805.3	6223.9
40°	6822.6	6816.1	6906.6	7016.4	7102.5	7171.5	7143.5	7167.2	7302.8	7645.2	6992.7
42.5°	7012.1	7027.2	7143.5	7317.9	7535.4	7675.4	7694.8	7791.7	8140.6	8670.4	7860.6
45°	7229.6	7231.8	7393.3	7660.3	8007.1	8228.9	8306.4	8556.2	9051.5	9734.2	8812.5
47.5°	7496.7	7470.8	7651.7	8026.4	8528.2	8855.6	8993.4	9305.7	10072.3	10772.3	9587.8
50°	7791.7	7744.3	7948.9	8459.3	9111.8	9521.0	9801.0	10257.6	11084.5	11625.1	10164.9
52.5°	8134.1	8088.9	8321.5	8956.8	9811.8	10309.2	10668.9	11129.8	11952.4	12275.5	10509.5
55°	8569.1	8523.9	8769.4	9553.3	10638.7	11284.8	11661.7	12049.3	12760.0	12755.7	10759.3
57.5°	9051.5	8989.1	9329.4	10307.1	11670.3	12342.2	12725.6	12915.1	13373.8	13128.3	10927.3
60°	9605.0	9549.0	10020.7	11205.1	12861.2	13483.6	13724.8	13647.3	13877.7	13348.0	10869.2
62.5°	10104.6	10078.8	10664.6	12157.0	13996.2	14521.7	14588.4	14250.3	14248.2	13352.3	10477.2
65°	10623.7	10673.2	11543.2	13253.2	15137.6	15490.8	15376.6	14849.0	14396.8	12824.6	9318.6
67.5°	10817.5	10961.8	12122.6	14243.9	16037.8	16313.5	16113.2	15148.4	13778.7	11050.1	7096.1
70°	9620.1	9891.4	11575.6	14299.8	16410.4	16673.1	16192.9	14342.9	11487.3	7320.1	3887.2
72.5°	7315.7	7632.3	9645.9	11709.1	14758.6	15357.3	14536.7	11685.4	7404.0	3206.7	1305.1
75°	4094.0	4436.4	7184.4	8816.8	9908.7	10455.7	10154.2	7496.7	3279.9	837.7	389.8
77.5°	1384.8	1498.9	3342.4	5455.0	6540.5	6049.4	5121.2	3723.6	1206.0	318.7	206.7
80°	820.5	863.6	1244.8	2715.7	3441.4	2853.5	2252.7	1376.1	613.8	170.1	144.3
82.5°	245.5	290.7	687.0	1007.9	1348.1	839.9	710.7	786.1	318.7	92.6	120.6
85°	0.0	0.0	146.4	312.3	353.2	137.8	137.8	445.8	58.1	38.8	88.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.8	6.5	8.6	19.4
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°	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4	4016.4
2.5°	3990.6	3915.2	3826.9	3742.9	3663.3	3559.9	3510.4	3450.1	3398.4	3370.4	3385.4
5°	3910.9	3792.5	3611.6	3428.5	3243.3	3068.9	2911.7	2806.1	2711.4	2661.8	2672.6
7.5°	3842.0	3682.6	3400.5	3101.2	2804.0	2504.6	2261.3	2071.8	1925.3	1865.0	1854.2
10°	3811.9	3611.6	3213.2	2782.4	2325.9	1923.2	1578.6	1369.7	1221.1	1147.9	1160.8
12.5°	3826.9	3575.0	3053.8	2470.2	1877.9	1408.4	1078.9	883.0	777.4	734.4	723.6
15°	3870.0	3566.3	2911.7	2151.4	1449.4	984.2	745.1	665.5	643.9	639.6	639.6
17.5°	3919.5	3568.5	2765.2	1828.4	1100.5	730.1	637.5	622.4	615.9	611.6	613.8
20°	3969.1	3568.5	2597.2	1501.1	827.0	631.0	607.3	596.5	590.1	587.9	587.9
22.5°	4029.4	3568.5	2409.9	1197.4	663.3	598.7	579.3	572.9	566.4	564.2	562.1
25°	4102.6	3570.7	2203.1	936.8	603.0	570.7	555.6	549.2	542.7	538.4	538.4
27.5°	4208.1	3587.9	1974.8	730.1	568.5	544.9	531.9	525.5	519.0	512.6	512.6
30°	4361.0	3631.0	1718.6	603.0	536.2	516.9	503.9	499.6	493.2	486.7	484.6
32.5°	4589.3	3706.3	1453.7	540.6	506.1	486.7	471.6	467.3	460.9	454.4	452.3
35°	4908.0	3844.2	1195.2	501.8	467.3	447.9	439.3	437.2	428.6	422.1	422.1
37.5°	5375.4	4068.1	947.6	463.0	435.0	420.0	409.2	404.9	396.3	389.8	387.6
40°	5946.1	4358.9	736.5	432.9	404.9	389.8	379.0	372.6	361.8	353.2	348.9
42.5°	6674.0	4714.2	581.5	400.6	376.9	361.8	353.2	340.3	325.2	312.3	310.1
45°	7432.0	5080.3	480.3	370.4	351.0	338.1	327.3	310.1	288.6	273.5	269.2
47.5°	8013.5	5308.6	420.0	338.1	323.0	312.3	299.3	277.8	252.0	234.7	230.4
50°	8429.2	5343.1	374.7	308.0	299.3	288.6	269.2	243.4	215.4	198.1	193.8
52.5°	8633.7	5188.0	338.1	280.0	273.5	262.7	239.0	211.1	180.9	163.7	159.4
55°	8726.4	4895.1	303.7	256.3	247.7	234.7	208.9	178.7	148.6	133.5	129.2
57.5°	8689.7	4462.2	273.5	232.6	221.8	206.7	178.7	146.4	122.8	107.7	105.5
60°	8418.4	3854.9	243.4	208.9	196.0	178.7	150.8	120.6	99.1	88.3	86.1
62.5°	7832.6	3101.2	213.2	180.9	172.3	155.1	129.2	99.1	81.8	75.4	73.2
65°	6633.1	2192.4	183.1	152.9	148.6	131.4	107.7	81.8	71.1	66.8	64.6
67.5°	4768.1	1333.1	155.1	131.4	127.1	112.0	90.5	71.1	64.6	62.5	62.5
70°	2396.9	631.0	122.8	107.7	107.7	92.6	77.5	64.6	62.5	60.3	60.3
72.5°	814.1	269.2	92.6	84.0	88.3	79.7	66.8	60.3	60.3	60.3	60.3
75°	277.8	142.1	64.6	60.3	64.6	64.6	58.1	58.1	60.3	60.3	60.3
77.5°	180.9	94.8	45.2	40.9	49.5	49.5	49.5	53.8	58.1	58.1	58.1
80°	148.6	51.7	30.2	28.0	36.6	36.6	40.9	49.5	53.8	53.8	53.8
82.5°	127.1	32.3	17.2	19.4	25.8	28.0	34.5	40.9	47.4	49.5	49.5
85°	86.1	17.2	12.9	15.1	17.2	21.5	28.0	34.5	38.8	43.1	43.1
87.5°	23.7	6.5	8.6	10.8	10.8	15.1	21.5	25.8	30.2	32.3	32.3
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)