

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: P640231

Luminaire Tested: GWS-SA5D-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 23813.9 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

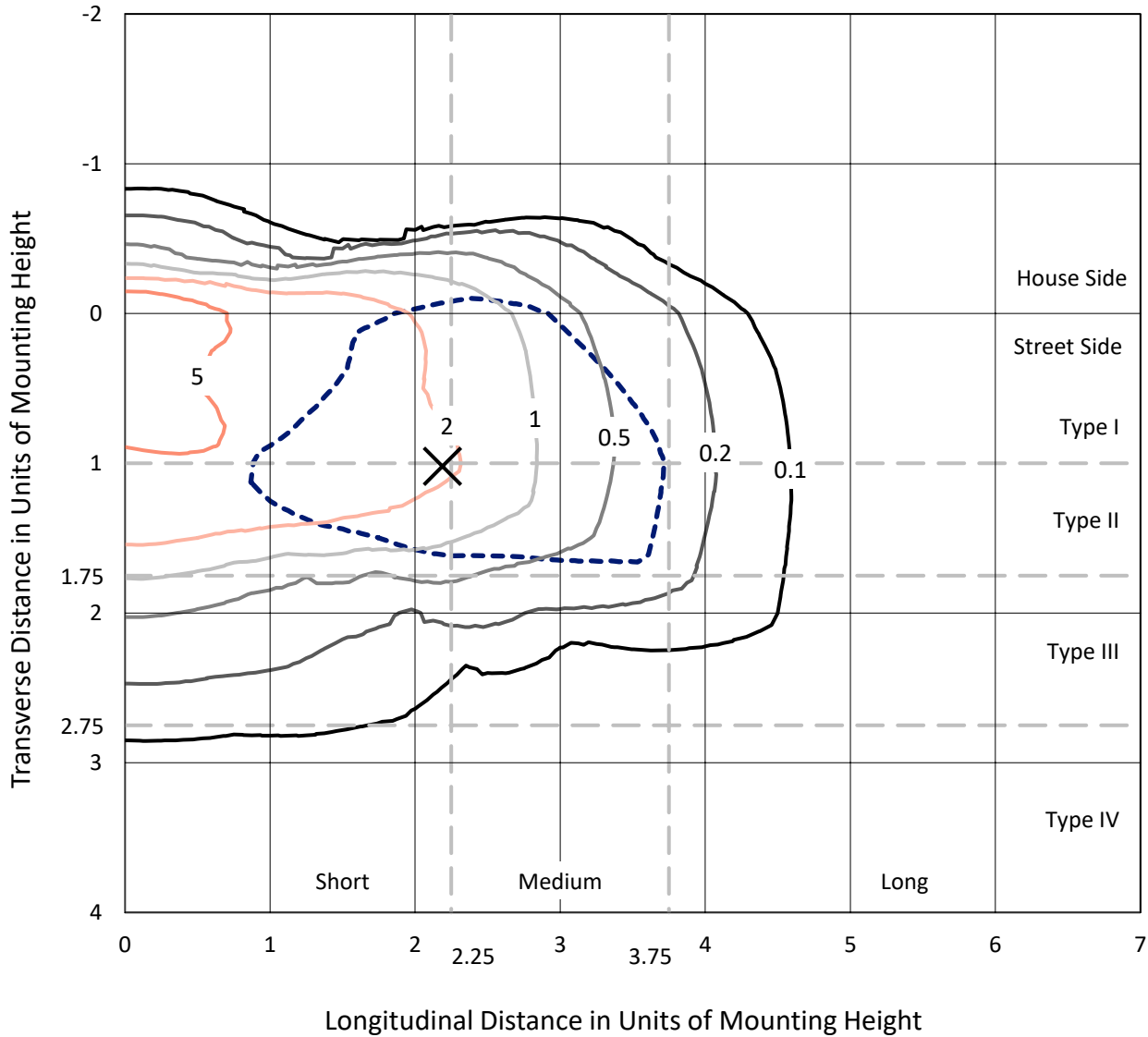
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

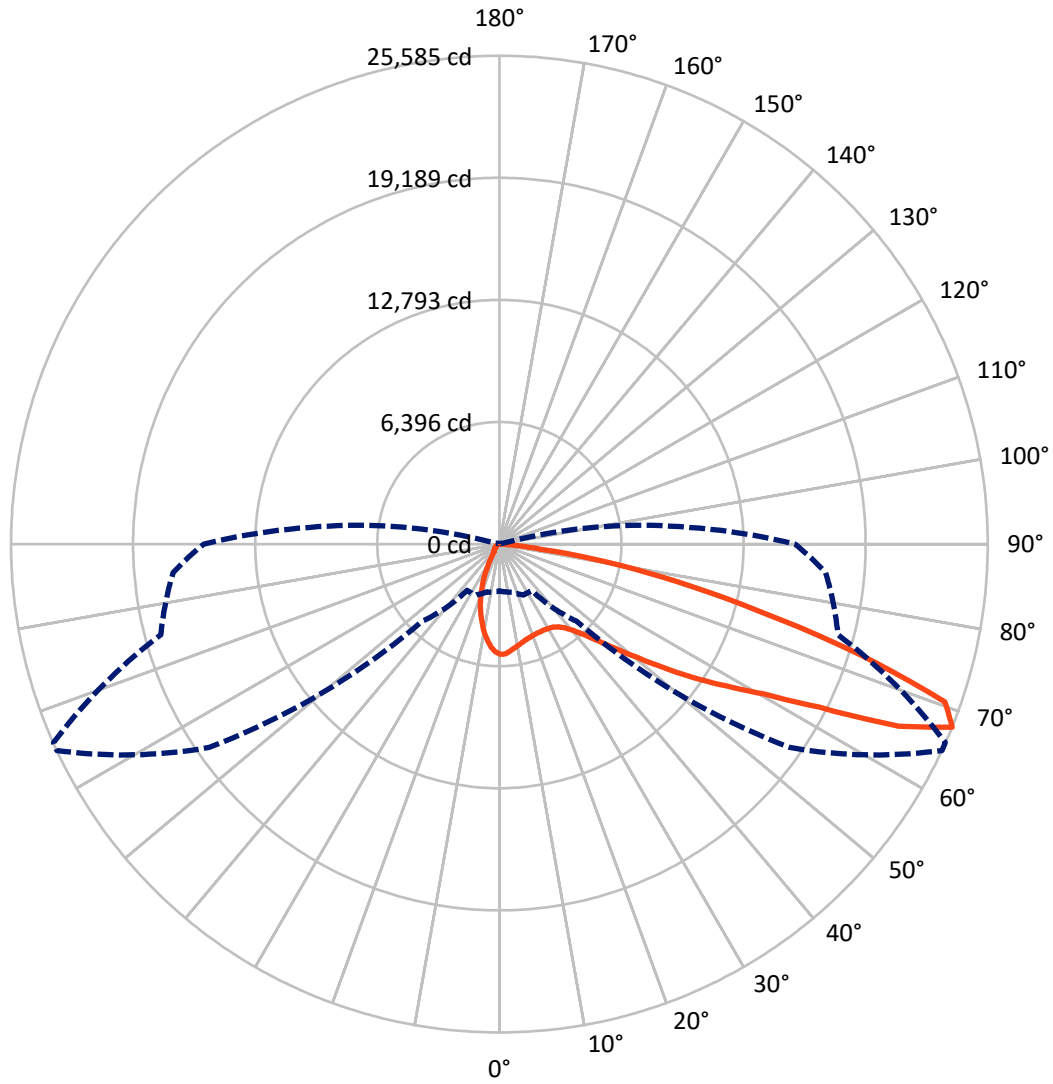
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2973.7	0.0	2973.7
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	20840.2	0.0	20840.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	23813.9	0.0	23813.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	2.0
10°-20°	1078.3	4.5
20°-30°	1540.9	6.5
30°-40°	2241.8	9.4
40°-50°	3511.0	14.7
50°-60°	5477.3	23.0
60°-70°	6016.5	25.3
70°-80°	3201.9	13.4
80°-90°	266.6	1.1
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°	23813.9	100.0
0°-180°	23813.9	100.0

Coefficient of Utilization



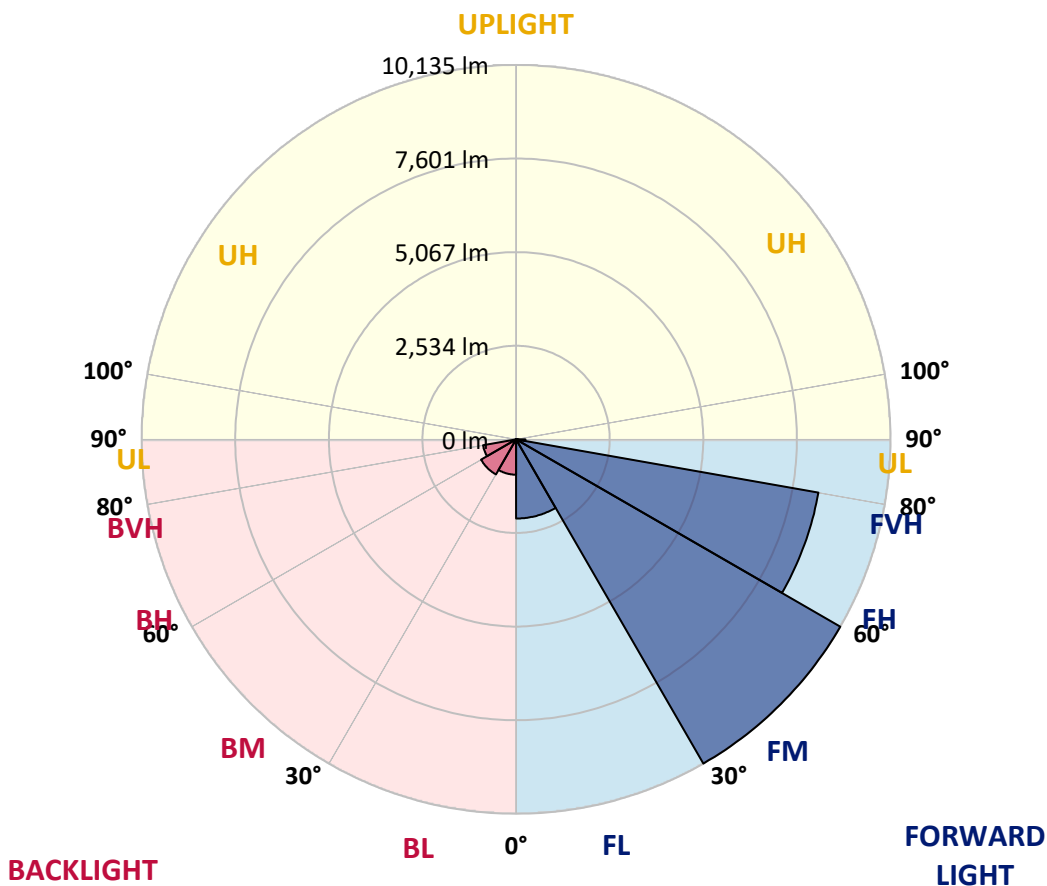
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2143.1	9.0			
FM (30°-60°)	10134.7	42.6			
FH (60°-80°)	8310.1	34.9			G4/12000
FVH (80°-90°)	252.3	1.1			G3/500
BL (0°-30°)	955.8	4.0	B2/1000		
BM (30°-60°)	1095.3	4.6	B2/2500		
BH (60°-80°)	908.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6
2.5°	5575.3	5592.6	5568.9	5627.0	5637.8	5702.4	5739.0	5764.9	5762.7	5795.0	5795.0
5°	5248.0	5265.2	5252.3	5314.8	5364.3	5465.5	5549.5	5646.4	5650.7	5749.8	5786.4
7.5°	4970.2	4972.4	4972.4	5049.9	5114.5	5239.4	5364.3	5512.9	5530.1	5683.0	5779.9
10°	4742.0	4748.4	4750.6	4838.9	4909.9	5060.7	5220.0	5398.8	5418.1	5624.9	5775.6
12.5°	4584.7	4586.9	4595.5	4688.1	4765.6	4922.8	5084.4	5288.9	5314.8	5558.1	5756.2
15°	4509.4	4505.1	4509.4	4586.9	4664.4	4815.2	4981.0	5200.6	5228.6	5502.1	5758.4
17.5°	4505.1	4498.6	4494.3	4552.4	4602.0	4735.5	4903.5	5142.5	5172.6	5476.3	5782.1
20°	4567.5	4563.2	4541.7	4567.5	4578.3	4688.1	4853.9	5097.3	5127.4	5472.0	5833.8
22.5°	4731.2	4720.4	4688.1	4664.4	4606.3	4670.9	4819.5	5065.0	5099.4	5482.7	5900.5
25°	4974.5	4970.2	4929.3	4871.2	4722.6	4696.7	4821.6	5065.0	5097.3	5495.7	5971.6
27.5°	5340.6	5314.8	5263.1	5161.9	4948.7	4797.9	4864.7	5077.9	5110.2	5512.9	6029.7
30°	5713.2	5711.0	5693.8	5590.4	5273.9	4991.8	4955.1	5112.4	5142.5	5528.0	6083.6
32.5°	6098.6	6105.1	6148.2	6068.5	5721.8	5280.3	5118.8	5183.4	5204.9	5558.1	6130.9
35°	6464.7	6477.7	6591.8	6619.8	6266.6	5717.5	5385.8	5325.5	5327.7	5624.9	6193.4
37.5°	6815.7	6858.8	7041.9	7177.5	6945.0	6247.2	5771.3	5566.7	5549.5	5758.4	6288.1
40°	7214.1	7296.0	7526.4	7756.8	7683.6	6947.1	6296.8	5937.1	5900.5	6003.9	6458.3
42.5°	7655.6	7743.9	8049.7	8372.7	8407.2	7793.4	6953.6	6477.7	6415.2	6417.4	6777.0
45°	8129.4	8247.8	8603.1	9068.3	9277.2	8736.6	7763.3	7207.7	7145.2	7052.6	7289.5
47.5°	8751.7	8855.1	9197.5	9733.7	10134.3	9748.8	8824.9	8146.6	8032.5	7896.8	8086.3
50°	9287.9	9378.4	9673.4	10345.3	11178.7	11053.8	10028.7	9320.2	9210.4	8980.0	9137.2
52.5°	9406.4	9477.4	9748.8	10504.7	11977.6	12701.2	11503.9	10739.4	10661.9	10235.5	10295.8
55°	8874.5	8982.1	9225.5	10065.3	12186.5	14312.0	13418.3	12339.4	12177.9	11497.4	11605.1
57.5°	7530.7	7722.4	7950.6	9042.4	11620.2	15169.1	16092.9	14034.2	13887.8	12712.0	12714.1
60°	5519.4	5674.4	5827.3	6826.5	10276.4	15110.9	18519.9	15937.9	15670.8	13704.7	13668.1
62.5°	4014.1	4093.8	4091.6	4446.9	7056.9	14116.0	19794.7	18806.3	18183.9	14766.4	14557.5
65°	3157.0	3154.8	3247.4	3363.7	3940.9	10896.6	19951.9	22994.8	22322.9	16189.8	15754.8
67.5°	2457.1	2504.5	2597.1	2939.5	2961.0	5702.4	18569.4	25585.4	25572.5	18362.7	17156.7
70°	1895.1	1959.7	2091.0	2590.6	2734.9	3191.5	13894.2	24765.0	24973.9	19333.9	16164.0
72.5°	1216.7	1212.4	1406.2	2093.2	2627.2	2659.5	7683.6	19672.0	19908.9	17512.1	13069.4
75°	680.5	684.8	794.6	1281.3	2448.5	2502.3	3805.2	14027.7	14215.1	13653.0	10041.7
77.5°	267.0	275.6	372.6	674.0	1615.1	2235.3	2261.1	9565.7	9593.7	8461.0	6158.9
80°	107.7	114.1	189.5	417.8	984.1	1505.3	1615.1	5635.6	5521.5	3275.4	1791.7
82.5°	32.3	34.5	75.4	236.9	514.7	1070.3	1089.7	2162.1	2041.5	704.2	456.5
85°	2.2	2.2	17.2	73.2	183.0	269.2	725.7	704.2	624.5	176.6	202.4
87.5°	0.0	0.0	2.2	2.2	4.3	8.6	77.5	129.2	131.4	32.3	90.4
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°	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6	5775.6
2.5°	5795.0	5717.5	5711.0	5650.7	5590.4	5515.1	5426.8	5362.2	5316.9	5237.3	5222.2
5°	5786.4	5683.0	5586.1	5413.8	5222.2	5015.4	4834.6	4666.6	4561.1	4490.0	4459.8
7.5°	5769.2	5637.8	5413.8	5088.7	4767.8	4406.0	4123.9	3865.5	3688.9	3585.5	3540.3
10°	5756.2	5579.7	5215.7	4722.6	4225.1	3725.5	3297.0	2913.7	2700.5	2532.5	2504.5
12.5°	5730.4	5495.7	4961.6	4294.0	3652.3	2989.0	2442.0	1972.6	1647.4	1501.0	1449.3
15°	5704.6	5407.4	4707.5	3841.8	3027.8	2209.5	1546.2	1094.0	870.0	801.1	796.8
17.5°	5700.2	5327.7	4431.9	3413.3	2373.1	1447.1	880.8	708.5	661.1	643.9	643.9
20°	5713.2	5260.9	4160.5	2920.1	1729.2	880.8	656.8	613.7	585.7	570.7	570.7
22.5°	5726.1	5192.0	3899.9	2422.7	1147.8	643.9	579.3	542.7	510.4	493.1	484.5
25°	5734.7	5116.7	3611.4	1923.1	749.4	559.9	508.2	460.8	422.1	400.5	400.5
27.5°	5732.6	5026.2	3320.7	1434.2	581.4	497.5	435.0	385.5	346.7	323.0	325.2
30°	5715.3	4927.2	3019.2	1001.4	508.2	435.0	372.6	320.9	282.1	262.7	260.6
32.5°	5702.4	4821.6	2670.3	704.2	456.5	381.2	316.6	267.0	234.7	219.7	217.5
35°	5687.3	4718.3	2338.7	536.2	411.3	329.5	267.0	226.1	200.3	187.4	187.4
37.5°	5691.6	4610.6	1979.0	460.8	366.1	286.4	228.3	193.8	172.3	159.4	157.2
40°	5758.4	4546.0	1625.9	417.8	325.2	247.6	198.1	168.0	146.4	133.5	131.4
42.5°	5924.2	4548.1	1287.8	385.5	288.6	211.0	172.3	144.3	124.9	109.8	107.7
45°	6255.8	4638.6	988.4	351.0	249.8	183.0	148.6	122.7	103.4	90.4	88.3
47.5°	6798.5	4907.8	749.4	320.9	217.5	159.4	127.1	103.4	86.1	75.4	73.2
50°	7662.1	5394.5	590.1	284.3	183.0	137.8	107.7	86.1	71.1	60.3	58.1
52.5°	8700.0	6124.5	506.1	252.0	157.2	120.6	92.6	71.1	58.1	49.5	47.4
55°	9893.1	6996.6	467.3	219.7	133.5	103.4	75.4	58.1	47.4	40.9	36.6
57.5°	10987.0	7782.7	465.2	187.4	114.1	88.3	62.5	49.5	40.9	32.3	30.1
60°	12053.0	8439.5	437.2	155.1	99.1	73.2	53.8	40.9	34.5	28.0	25.8
62.5°	13019.9	8973.5	366.1	124.9	84.0	60.3	45.2	36.6	30.1	23.7	23.7
65°	14234.5	9654.0	280.0	101.2	68.9	49.5	38.8	32.3	28.0	21.5	21.5
67.5°	15489.9	10013.7	200.3	84.0	56.0	43.1	34.5	30.1	23.7	19.4	19.4
70°	14029.9	8461.0	144.3	68.9	47.4	36.6	30.1	28.0	23.7	19.4	17.2
72.5°	10956.9	6100.8	107.7	53.8	40.9	34.5	28.0	25.8	21.5	17.2	17.2
75°	8125.1	3557.5	81.8	43.1	32.3	28.0	28.0	25.8	21.5	17.2	15.1
77.5°	4416.8	1240.4	62.5	34.5	25.8	21.5	23.7	23.7	19.4	15.1	12.9
80°	1169.3	340.2	43.1	25.8	21.5	17.2	17.2	21.5	17.2	12.9	12.9
82.5°	340.2	99.1	30.1	21.5	17.2	15.1	15.1	15.1	12.9	10.8	8.6
85°	165.8	36.6	21.5	17.2	15.1	12.9	10.8	10.8	8.6	6.5	6.5
87.5°	73.2	15.1	17.2	15.1	15.1	10.8	8.6	6.5	6.5	4.3	2.2
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)