

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: P638035

Luminaire Tested: GWS-SA4E-722-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18257 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

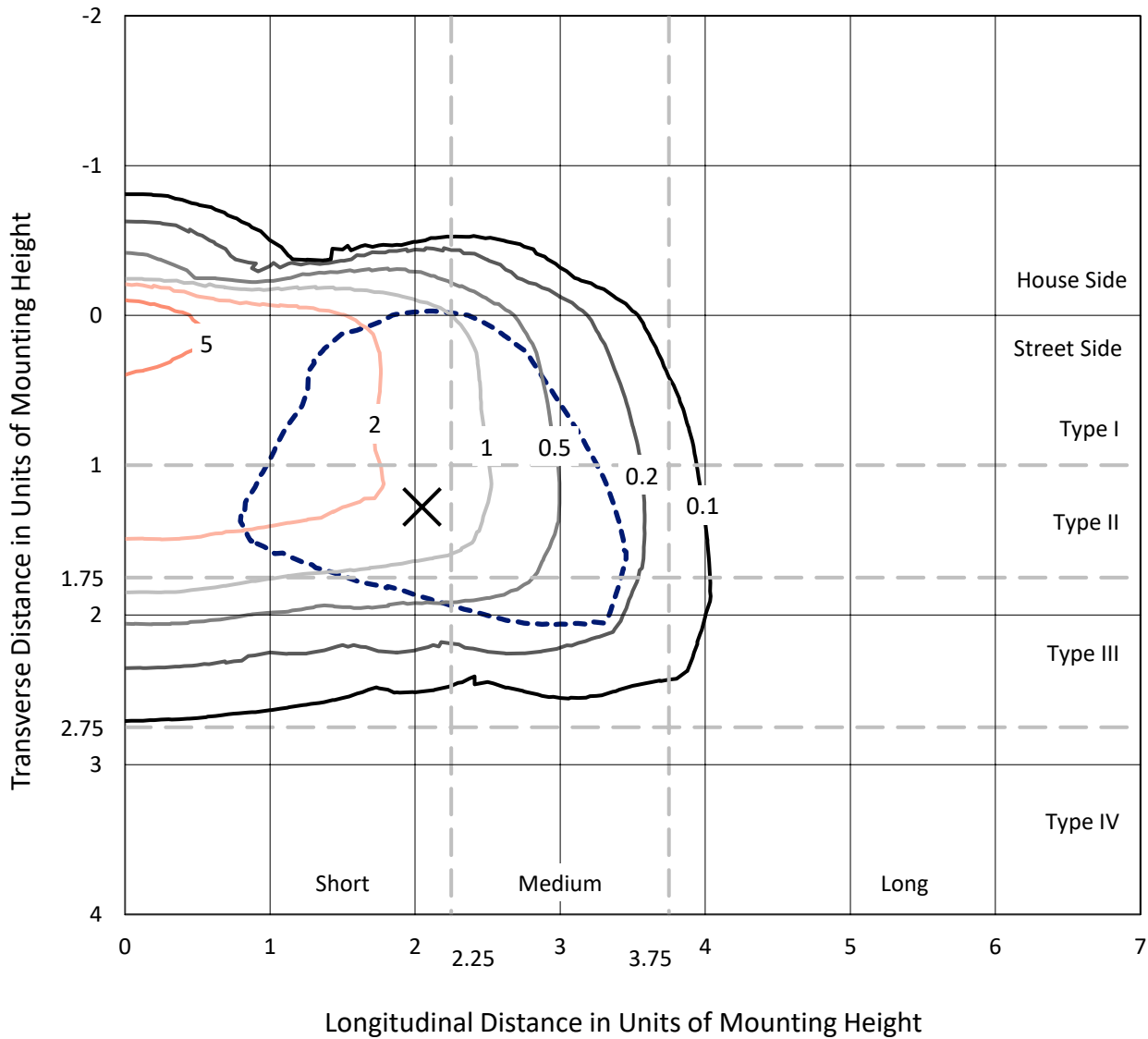
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

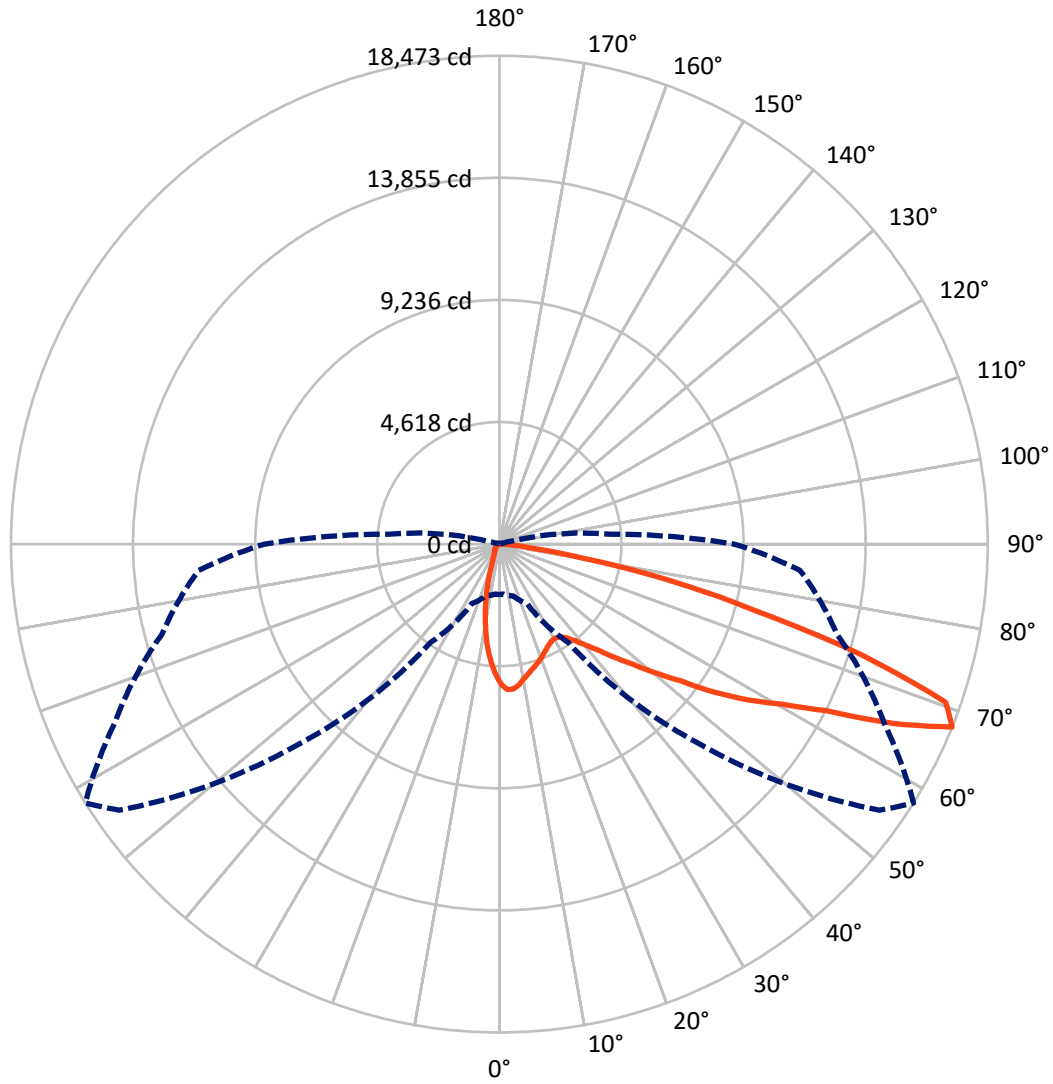
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1783.6	0.0	1783.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16473.4	0.0	16473.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	18257.0	0.0	18257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	2.3
10°-20°	890.8	4.9
20°-30°	1201.3	6.6
30°-40°	1688.1	9.2
40°-50°	2607.1	14.3
50°-60°	4169.0	22.8
60°-70°	4936.4	27.0
70°-80°	2183.8	12.0
80°-90°	152.7	0.8
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°	18257.0	100.0
0°-180°	18257.0	100.0

Coefficient of Utilization

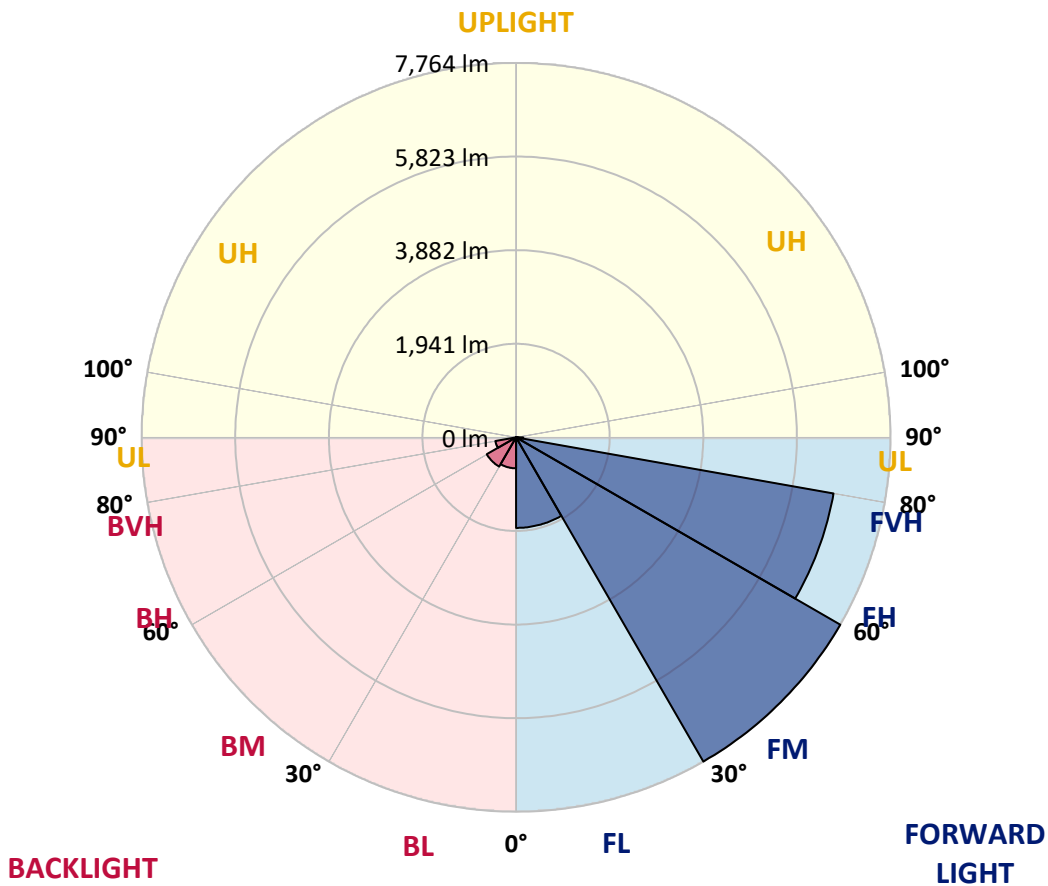


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.2	10.3			
FM (30°-60°)	7764.3	42.5			
FH (60°-80°)	6684.7	36.6			G3/7500
FVH (80°-90°)	146.2	0.8			G2/225
BL (0°-30°)	641.8	3.5	B2/1000		
BM (30°-60°)	699.8	3.8	B1/1000		
BH (60°-80°)	435.4	2.4	B1/500		G1/500
BVH (80°-90°)	6.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2
2.5°	5539.3	5549.0	5561.9	5578.0	5574.8	5560.3	5542.5	5502.1	5476.2	5395.4	5296.9
5°	5361.5	5359.9	5392.2	5422.9	5477.9	5506.9	5547.3	5510.2	5497.2	5400.3	5240.3
7.5°	5014.1	5031.9	5069.0	5117.5	5196.7	5282.3	5379.3	5368.0	5406.8	5342.1	5143.4
10°	4673.1	4663.4	4721.6	4794.3	4915.5	5025.4	5166.0	5164.4	5266.2	5259.7	5033.5
12.5°	4374.2	4372.6	4417.8	4500.2	4642.4	4796.0	4986.6	4991.5	5117.5	5169.2	4939.8
15°	4122.1	4125.4	4169.0	4254.6	4401.7	4589.1	4810.5	4850.9	4993.1	5098.1	4847.7
17.5°	3942.8	3944.4	3970.2	4044.6	4188.4	4388.7	4655.4	4710.3	4892.9	5044.8	4773.3
20°	3860.4	3853.9	3858.7	3895.9	4007.4	4190.0	4497.0	4568.1	4800.8	5007.6	4705.5
22.5°	3871.7	3862.0	3839.3	3834.5	3884.6	4023.6	4329.0	4416.2	4700.6	4985.0	4644.1
25°	3971.9	3950.8	3918.5	3870.0	3850.7	3920.1	4181.9	4272.4	4606.9	4986.6	4597.2
27.5°	4125.4	4102.7	4062.3	3997.7	3921.8	3892.7	4081.7	4167.4	4540.6	5023.8	4574.6
30°	4320.9	4303.1	4264.3	4186.8	4085.0	3965.4	4060.7	4131.8	4508.3	5099.7	4584.3
32.5°	4552.0	4539.0	4506.7	4435.6	4319.3	4136.7	4131.8	4186.8	4534.2	5209.6	4621.4
35°	4774.9	4779.8	4781.4	4742.6	4618.2	4396.8	4327.3	4346.7	4640.8	5374.4	4705.5
37.5°	5015.7	5004.4	5062.6	5090.0	4970.5	4734.5	4629.5	4631.1	4844.4	5618.4	4863.8
40°	5198.3	5201.5	5327.6	5440.7	5390.6	5162.8	5012.5	5010.9	5157.9	5952.9	5119.1
42.5°	5369.6	5390.6	5576.4	5770.3	5839.8	5637.8	5529.6	5489.2	5597.4	6405.4	5502.1
45°	5552.2	5582.9	5843.0	6119.4	6302.0	6182.4	6096.7	6112.9	6125.8	6932.2	6017.6
47.5°	5765.5	5784.9	6106.4	6495.9	6836.8	6806.1	6811.0	6791.6	6785.1	7596.3	6699.5
50°	6024.0	6069.3	6439.3	6904.7	7370.1	7573.7	7641.5	7649.6	7544.6	8320.2	7405.6
52.5°	6573.4	6628.4	6945.1	7352.3	7951.8	8380.0	8656.3	8601.4	8439.8	9021.5	8179.6
55°	7221.4	7263.4	7568.8	7990.6	8662.8	9263.9	9919.9	9897.3	9501.4	9760.0	8816.3
57.5°	7282.8	7329.7	7803.1	8449.5	9575.7	10356.2	11046.2	11118.9	10538.8	10283.5	9385.1
60°	6592.8	6688.2	7334.5	8203.9	9924.8	11825.1	12280.7	12295.3	11299.9	10815.1	10079.9
62.5°	5284.0	5329.2	5980.4	7114.8	9386.7	12681.5	14166.5	13859.5	12277.5	11637.6	11180.3
65°	2769.6	2953.8	3521.0	4776.6	7612.4	12382.5	16435.2	16351.2	14035.6	12815.6	12036.7
67.5°	1900.3	1898.7	2032.8	2490.1	4539.0	10661.6	17548.5	18472.8	16068.4	13219.6	11416.2
70°	1446.2	1451.1	1570.6	1868.0	2351.1	7097.0	16326.9	17907.3	16446.5	12002.8	9233.2
72.5°	959.8	969.5	1168.3	1509.2	1877.7	3479.0	12687.9	14328.1	13838.5	9640.4	6499.1
75°	573.6	581.7	723.9	1097.2	1669.2	1947.1	8061.7	9905.4	9525.7	6644.5	3483.9
77.5°	235.9	242.4	371.7	683.5	1221.6	1512.5	4458.2	6481.3	5705.7	2642.0	951.8
80°	98.6	101.8	179.4	478.3	880.7	948.5	2065.1	3045.9	2338.2	568.8	290.9
82.5°	35.5	37.2	66.3	263.4	547.8	714.2	1042.2	1203.8	659.3	185.8	156.7
85°	1.6	1.6	16.2	88.9	208.4	202.0	596.3	576.9	218.1	77.6	93.7
87.5°	0.0	0.0	1.6	1.6	3.2	8.1	56.6	100.2	46.9	19.4	40.4
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°	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2	5266.2
2.5°	5232.2	5146.6	5052.9	4965.6	4826.7	4744.2	4642.4	4597.2	4532.6	4516.4	4526.1
5°	5125.6	4978.5	4753.9	4550.3	4286.9	4075.3	3862.0	3771.5	3655.1	3577.6	3545.3
7.5°	4975.3	4783.0	4432.4	4062.3	3700.4	3314.2	3020.1	2826.2	2650.1	2553.1	2533.7
10°	4823.4	4573.0	4070.4	3540.4	2979.7	2517.6	2120.0	1826.0	1586.8	1478.5	1394.5
12.5°	4666.7	4354.8	3702.0	3010.4	2359.2	1729.0	1237.8	951.8	780.5	712.6	723.9
15°	4522.9	4144.8	3336.8	2480.4	1661.1	1043.9	683.5	576.9	536.5	523.5	521.9
17.5°	4385.5	3946.0	2973.2	1964.9	1095.6	639.9	523.5	497.7	486.4	479.9	479.9
20°	4261.1	3755.3	2617.7	1480.2	707.8	507.4	473.5	460.5	450.8	446.0	446.0
22.5°	4144.8	3571.1	2270.3	1047.1	521.9	455.7	434.7	421.7	410.4	404.0	404.0
25°	4039.7	3404.7	1939.1	720.7	449.2	416.9	394.3	379.7	360.3	349.0	349.0
27.5°	3963.8	3256.0	1620.7	525.2	405.6	374.9	349.0	329.6	308.6	295.7	292.5
30°	3918.5	3130.0	1299.2	431.4	365.2	334.5	305.4	281.2	256.9	244.0	242.4
32.5°	3892.7	3013.6	1005.1	376.5	331.3	295.7	263.4	237.5	213.3	198.8	197.1
35°	3902.4	2923.1	753.0	339.3	298.9	261.8	226.2	200.4	179.4	166.4	163.2
37.5°	3986.4	2882.7	565.6	310.3	271.5	232.7	195.5	171.3	151.9	142.2	140.6
40°	4149.6	2890.8	444.4	287.6	248.8	203.6	168.1	145.4	130.9	122.8	121.2
42.5°	4403.3	2958.7	366.8	268.2	224.6	177.7	145.4	127.7	113.1	105.0	103.4
45°	4781.4	3099.3	319.9	245.6	198.8	153.5	126.0	109.9	97.0	87.3	85.6
47.5°	5329.2	3343.3	289.2	224.6	176.1	132.5	108.3	92.1	80.8	72.7	71.1
50°	5912.5	3635.7	263.4	203.6	156.7	114.7	92.1	75.9	66.3	58.2	56.6
52.5°	6534.6	3950.8	244.0	184.2	139.0	98.6	77.6	63.0	53.3	45.2	43.6
55°	7132.5	4267.6	221.4	171.3	118.0	84.0	64.6	51.7	42.0	35.5	35.5
57.5°	7714.2	4558.4	197.1	150.3	97.0	71.1	53.3	42.0	33.9	29.1	27.5
60°	8409.1	4960.8	169.7	127.7	80.8	59.8	43.6	33.9	27.5	22.6	22.6
62.5°	9441.6	5379.3	145.4	106.6	67.9	50.1	35.5	27.5	22.6	19.4	17.8
65°	9779.3	5153.1	122.8	87.3	54.9	40.4	29.1	24.2	19.4	17.8	16.2
67.5°	8877.7	4223.9	101.8	71.1	45.2	33.9	25.9	21.0	17.8	16.2	14.5
70°	6927.3	2997.5	79.2	53.3	37.2	27.5	22.6	19.4	16.2	14.5	14.5
72.5°	4711.9	1772.6	63.0	40.4	30.7	24.2	19.4	17.8	16.2	14.5	12.9
75°	2320.4	630.2	48.5	30.7	24.2	21.0	17.8	16.2	14.5	12.9	12.9
77.5°	625.3	174.5	37.2	24.2	19.4	16.2	16.2	16.2	14.5	11.3	11.3
80°	211.7	72.7	27.5	17.8	16.2	12.9	11.3	14.5	12.9	11.3	9.7
82.5°	116.3	35.5	19.4	14.5	11.3	9.7	9.7	9.7	9.7	8.1	8.1
85°	74.3	19.4	12.9	11.3	11.3	8.1	6.5	6.5	4.8	4.8	4.8
87.5°	33.9	11.3	11.3	9.7	9.7	8.1	4.8	3.2	1.6	1.6	1.6
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)