

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: P638530

Luminaire Tested: GWS-SA4F-722-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638530
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-SA4F-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: 20298.5 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

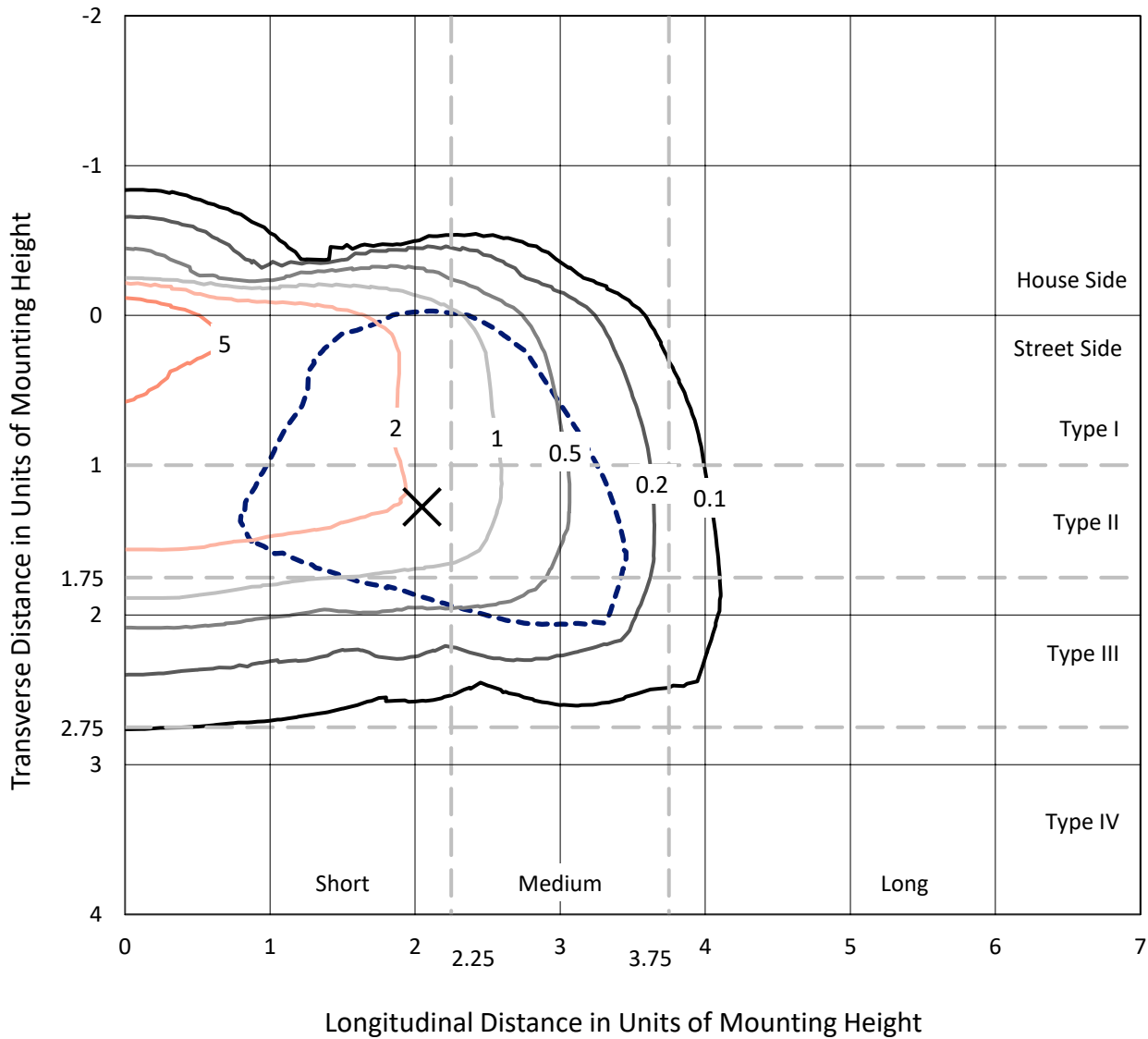
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

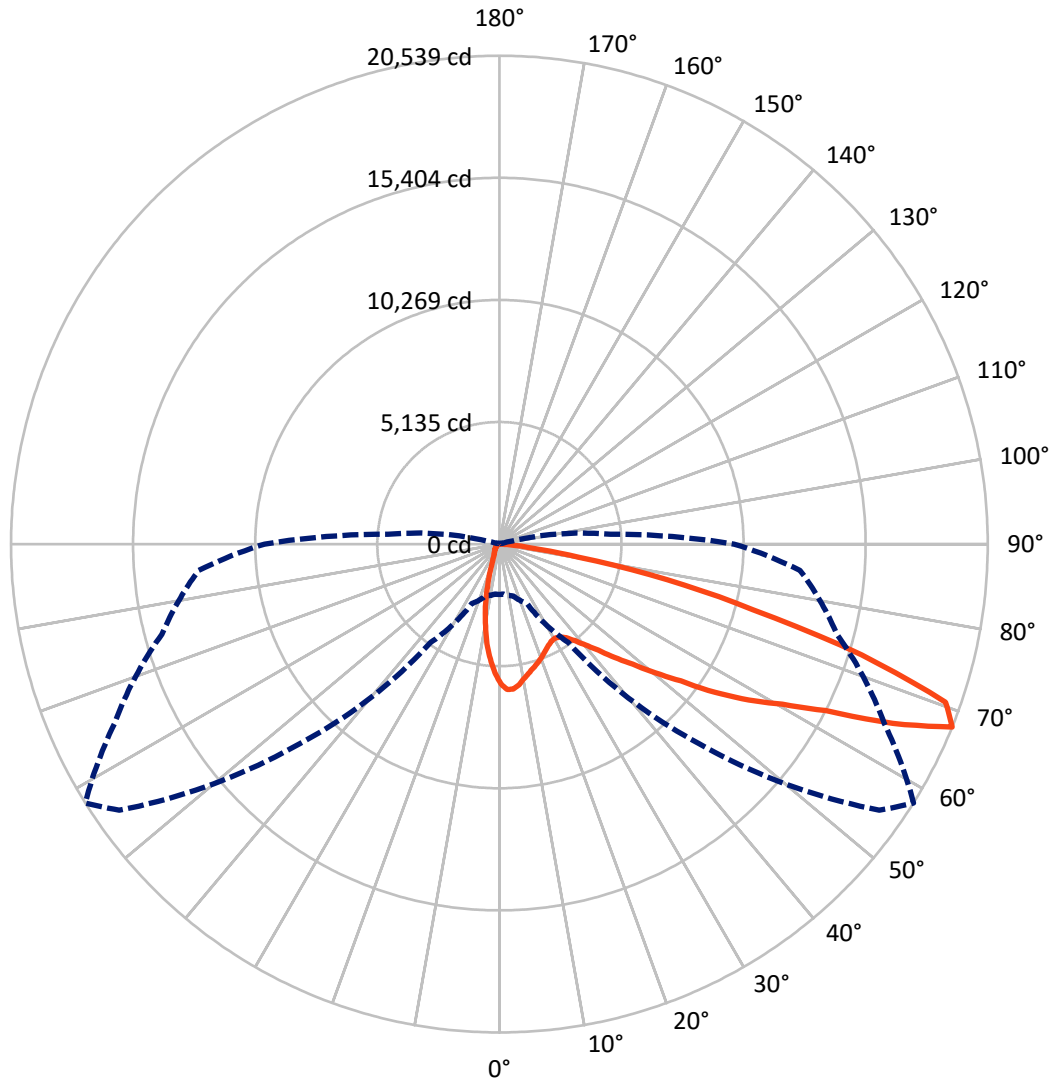
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	1983.0	0.0	1983.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18315.5	0.0	18315.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	20298.5	0.0	20298.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	2.3
10°-20°	990.4	4.9
20°-30°	1335.6	6.6
30°-40°	1876.8	9.2
40°-50°	2898.6	14.3
50°-60°	4635.2	22.8
60°-70°	5488.4	27.0
70°-80°	2427.9	12.0
80°-90°	169.7	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°	20298.5	100.0
0°-180°	20298.5	100.0

Coefficient of Utilization



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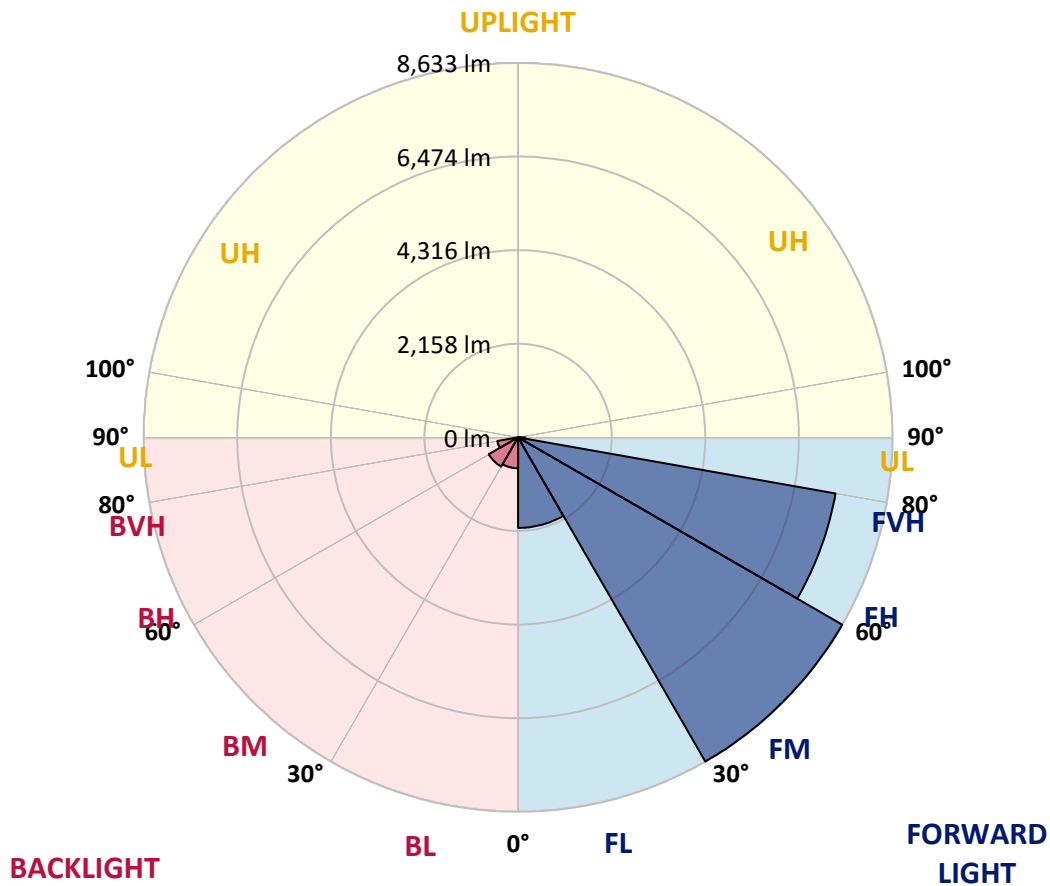
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.2	10.3			
FM (30°-60°)	8632.5	42.5			
FH (60°-80°)	7432.2	36.6			G3/7500
FVH (80°-90°)	162.5	0.8			G2/225
BL (0°-30°)	713.6	3.5	B2/1000		
BM (30°-60°)	778.1	3.8	B1/1000		
BH (60°-80°)	484.1	2.4	B1/500		G1/500
BVH (80°-90°)	7.2	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°	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0
2.5°	6158.7	6169.4	6183.8	6201.8	6198.2	6182.0	6162.3	6117.3	6088.6	5998.8	5889.2
5°	5961.0	5959.2	5995.2	6029.3	6090.4	6122.7	6167.6	6126.3	6112.0	6004.2	5826.3
7.5°	5574.8	5594.5	5635.9	5689.8	5777.8	5873.0	5980.8	5968.2	6011.3	5939.5	5718.5
10°	5195.7	5184.9	5249.6	5330.4	5465.2	5587.4	5743.7	5741.9	5855.0	5847.9	5596.3
12.5°	4863.3	4861.5	4911.8	5003.5	5161.6	5332.2	5544.2	5549.6	5689.8	5747.2	5492.1
15°	4583.1	4586.7	4635.2	4730.4	4893.9	5102.3	5348.4	5393.3	5551.4	5668.2	5389.7
17.5°	4383.6	4385.4	4414.2	4496.8	4656.7	4879.5	5175.9	5237.0	5440.0	5608.9	5307.1
20°	4292.0	4284.8	4290.2	4331.5	4455.5	4658.5	4999.9	5078.9	5337.6	5567.6	5231.6
22.5°	4304.6	4293.8	4268.7	4263.3	4319.0	4473.5	4813.0	4910.0	5226.2	5542.4	5163.4
25°	4416.0	4392.6	4356.7	4302.8	4281.2	4358.5	4649.5	4750.1	5122.0	5544.2	5111.3
27.5°	4586.7	4561.5	4516.6	4444.7	4360.3	4328.0	4538.2	4633.4	5048.4	5585.6	5086.1
30°	4804.0	4784.3	4741.2	4654.9	4541.7	4408.8	4514.8	4593.8	5012.4	5670.0	5096.9
32.5°	5061.0	5046.6	5010.6	4931.6	4802.2	4599.2	4593.8	4654.9	5041.2	5792.2	5138.2
35°	5308.9	5314.3	5316.1	5272.9	5134.6	4888.5	4811.2	4832.8	5159.8	5975.4	5231.6
37.5°	5576.6	5564.0	5628.7	5659.2	5526.3	5264.0	5147.2	5149.0	5386.1	6246.7	5407.7
40°	5779.6	5783.2	5923.3	6049.1	5993.4	5740.1	5573.0	5571.2	5734.7	6618.6	5691.6
42.5°	5970.0	5993.4	6200.0	6415.6	6492.8	6268.3	6147.9	6103.0	6223.3	7121.6	6117.3
45°	6173.0	6207.2	6496.4	6803.6	7006.6	6873.7	6778.5	6796.4	6810.8	7707.3	6690.4
47.5°	6410.2	6431.7	6789.3	7222.2	7601.3	7567.2	7572.6	7551.0	7543.8	8445.7	7448.6
50°	6697.6	6747.9	7159.4	7676.8	8194.2	8420.6	8496.0	8505.0	8388.2	9250.6	8233.7
52.5°	7308.5	7369.6	7721.7	8174.4	8840.9	9317.0	9624.3	9563.2	9383.5	10030.3	9094.3
55°	8028.9	8075.6	8415.2	8884.1	9631.4	10299.8	11029.2	11004.0	10563.9	10851.3	9802.1
57.5°	8097.2	8149.3	8675.7	9394.3	10646.5	11514.3	12281.4	12362.2	11717.3	11433.4	10434.5
60°	7330.0	7436.0	8154.7	9121.2	11034.6	13147.3	13654.0	13670.1	12563.5	12024.5	11207.0
62.5°	5874.8	5925.1	6649.1	7910.3	10436.3	14099.5	15750.6	15409.2	13650.4	12938.9	12430.5
65°	3079.3	3284.1	3914.7	5310.7	8463.7	13767.2	18273.0	18179.5	15605.1	14248.6	13382.7
67.5°	2112.8	2111.0	2260.1	2768.5	5046.6	11853.8	19510.8	20538.5	17865.1	14697.8	12692.8
70°	1607.9	1613.3	1746.3	2076.8	2614.0	7890.6	18152.6	19909.7	18285.5	13345.0	10265.6
72.5°	1067.2	1077.9	1298.9	1678.0	2087.6	3868.0	14106.7	15930.2	15385.9	10718.4	7225.8
75°	637.8	646.8	804.9	1219.9	1855.9	2164.9	8963.1	11013.0	10590.8	7387.5	3873.4
77.5°	262.3	269.5	413.2	760.0	1358.2	1681.6	4956.8	7206.1	6343.7	2937.4	1058.2
80°	109.6	113.2	199.4	531.8	979.1	1054.6	2296.0	3386.5	2599.6	632.4	323.4
82.5°	39.5	41.3	73.7	292.8	609.0	794.1	1158.8	1338.4	733.0	206.6	174.3
85°	1.8	1.8	18.0	98.8	231.8	224.6	662.9	641.4	242.5	86.2	104.2
87.5°	0.0	0.0	1.8	1.8	3.6	9.0	62.9	111.4	52.1	21.6	44.9
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°	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0	5855.0
2.5°	5817.3	5722.1	5617.9	5520.9	5366.4	5274.7	5161.6	5111.3	5039.4	5021.4	5032.2
5°	5698.7	5535.2	5285.5	5059.2	4766.3	4531.0	4293.8	4193.2	4063.9	3977.6	3941.7
7.5°	5531.7	5317.9	4928.0	4516.6	4114.2	3684.8	3357.8	3142.2	2946.4	2838.6	2817.0
10°	5362.8	5084.3	4525.6	3936.3	3312.9	2799.1	2357.1	2030.1	1764.2	1643.9	1550.4
12.5°	5188.5	4841.8	4116.0	3347.0	2623.0	1922.3	1376.2	1058.2	867.7	792.3	804.9
15°	5028.6	4608.2	3709.9	2757.7	1846.9	1160.6	760.0	641.4	596.5	582.1	580.3
17.5°	4875.9	4387.2	3305.7	2184.6	1218.1	711.4	582.1	553.3	540.8	533.6	533.6
20°	4737.6	4175.2	2910.5	1645.7	786.9	564.1	526.4	512.0	501.2	495.9	495.9
22.5°	4608.2	3970.4	2524.2	1164.2	580.3	506.6	483.3	468.9	456.3	449.1	449.1
25°	4491.4	3785.4	2155.9	801.3	499.4	463.5	438.4	422.2	400.6	388.1	388.1
27.5°	4407.0	3620.1	1802.0	583.9	450.9	416.8	388.1	366.5	343.1	328.8	325.2
30°	4356.7	3480.0	1444.4	479.7	406.0	371.9	339.6	312.6	285.7	271.3	269.5
32.5°	4328.0	3350.6	1117.5	418.6	368.3	328.8	292.8	264.1	237.1	221.0	219.2
35°	4338.7	3250.0	837.2	377.3	332.4	291.0	251.5	222.8	199.4	185.0	181.5
37.5°	4432.2	3205.1	628.8	344.9	301.8	258.7	217.4	190.4	168.9	158.1	156.3
40°	4613.6	3214.1	494.1	319.8	276.7	226.4	186.8	161.7	145.5	136.5	134.7
42.5°	4895.7	3289.5	407.8	298.2	249.7	197.6	161.7	141.9	125.8	116.8	115.0
45°	5316.1	3445.8	355.7	273.1	221.0	170.7	140.1	122.2	107.8	97.0	95.2
47.5°	5925.1	3717.1	321.6	249.7	195.8	147.3	120.4	102.4	89.8	80.8	79.0
50°	6573.7	4042.3	292.8	226.4	174.3	127.6	102.4	84.4	73.7	64.7	62.9
52.5°	7265.4	4392.6	271.3	204.8	154.5	109.6	86.2	70.1	59.3	50.3	48.5
55°	7930.1	4744.8	246.1	190.4	131.2	93.4	71.9	57.5	46.7	39.5	39.5
57.5°	8576.9	5068.1	219.2	167.1	107.8	79.0	59.3	46.7	37.7	32.3	30.5
60°	9349.4	5515.5	188.6	141.9	89.8	66.5	48.5	37.7	30.5	25.2	25.2
62.5°	10497.4	5980.8	161.7	118.6	75.5	55.7	39.5	30.5	25.2	21.6	19.8
65°	10872.9	5729.3	136.5	97.0	61.1	44.9	32.3	26.9	21.6	19.8	18.0
67.5°	9870.4	4696.2	113.2	79.0	50.3	37.7	28.7	23.4	19.8	18.0	16.2
70°	7701.9	3332.6	88.0	59.3	41.3	30.5	25.2	21.6	18.0	16.2	16.2
72.5°	5238.8	1970.8	70.1	44.9	34.1	26.9	21.6	19.8	18.0	16.2	14.4
75°	2579.9	700.7	53.9	34.1	26.9	23.4	19.8	18.0	16.2	14.4	14.4
77.5°	695.3	194.0	41.3	26.9	21.6	18.0	18.0	18.0	16.2	12.6	12.6
80°	235.4	80.8	30.5	19.8	18.0	14.4	12.6	16.2	14.4	12.6	10.8
82.5°	129.4	39.5	21.6	16.2	12.6	10.8	10.8	10.8	10.8	9.0	9.0
85°	82.6	21.6	14.4	12.6	12.6	9.0	7.2	7.2	5.4	5.4	5.4
87.5°	37.7	12.6	12.6	10.8	10.8	9.0	5.4	3.6	1.8	1.8	1.8
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)