

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: P638832

Luminaire Tested: GWS-SA4F-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27245.6 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

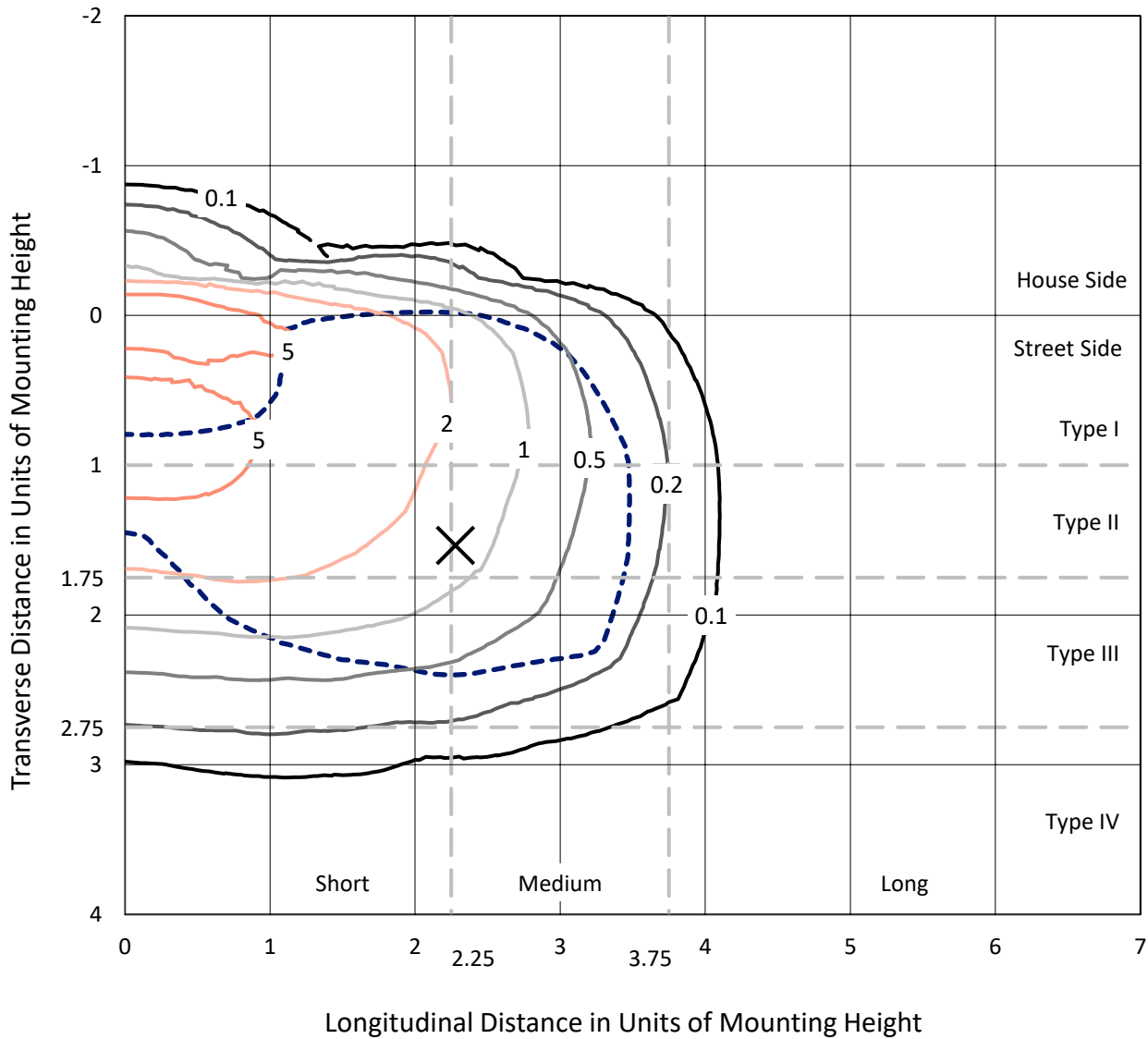
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

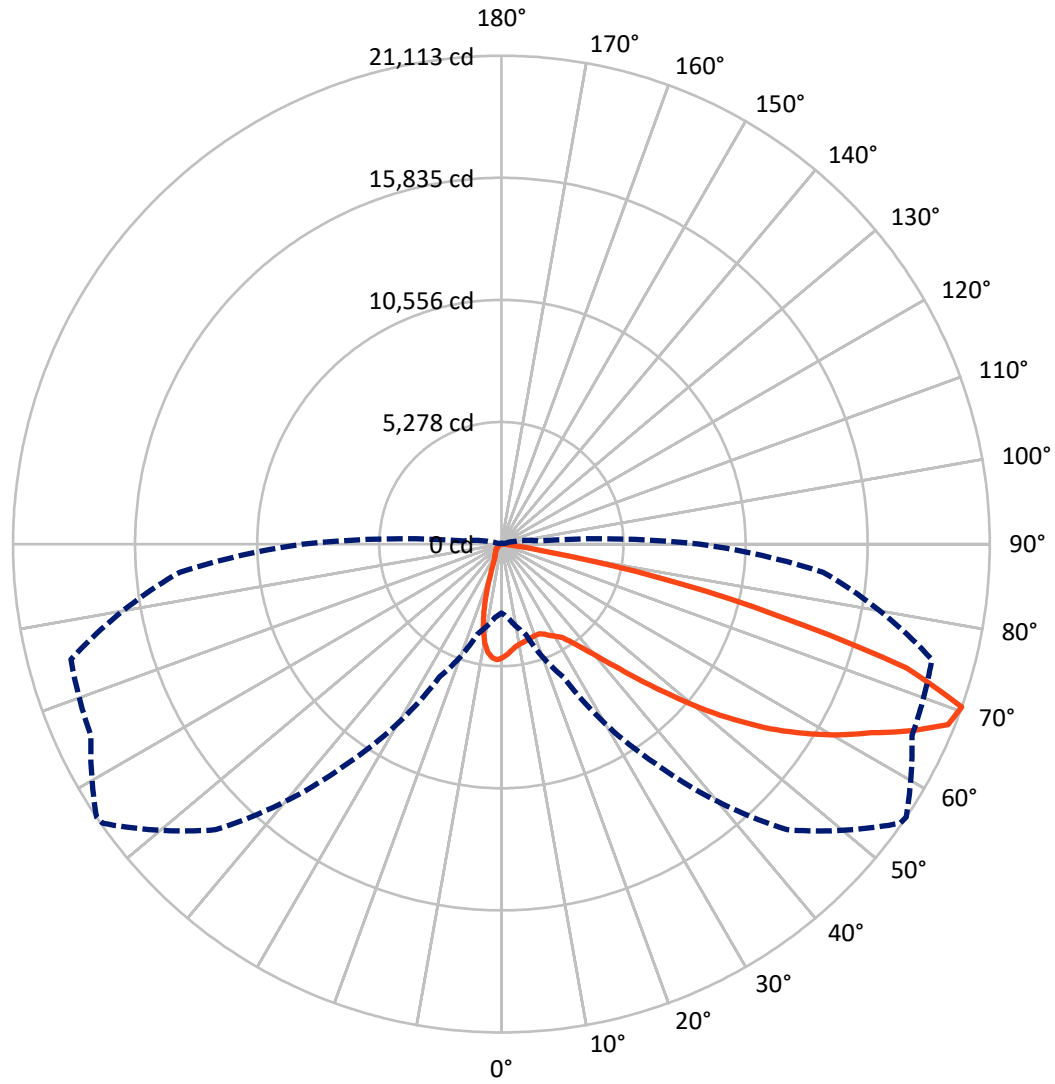
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.2	0.0	2447.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	24798.4	0.0	24798.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	27245.6	0.0	27245.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	1.5
10°-20°	948.7	3.5
20°-30°	1502.7	5.5
30°-40°	2591.4	9.5
40°-50°	4375.9	16.1
50°-60°	6429.7	23.6
60°-70°	7622.7	28.0
70°-80°	3250.6	11.9
80°-90°	102.1	0.4
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°	27245.6	100.0
0°-180°	27245.6	100.0

Coefficient of Utilization



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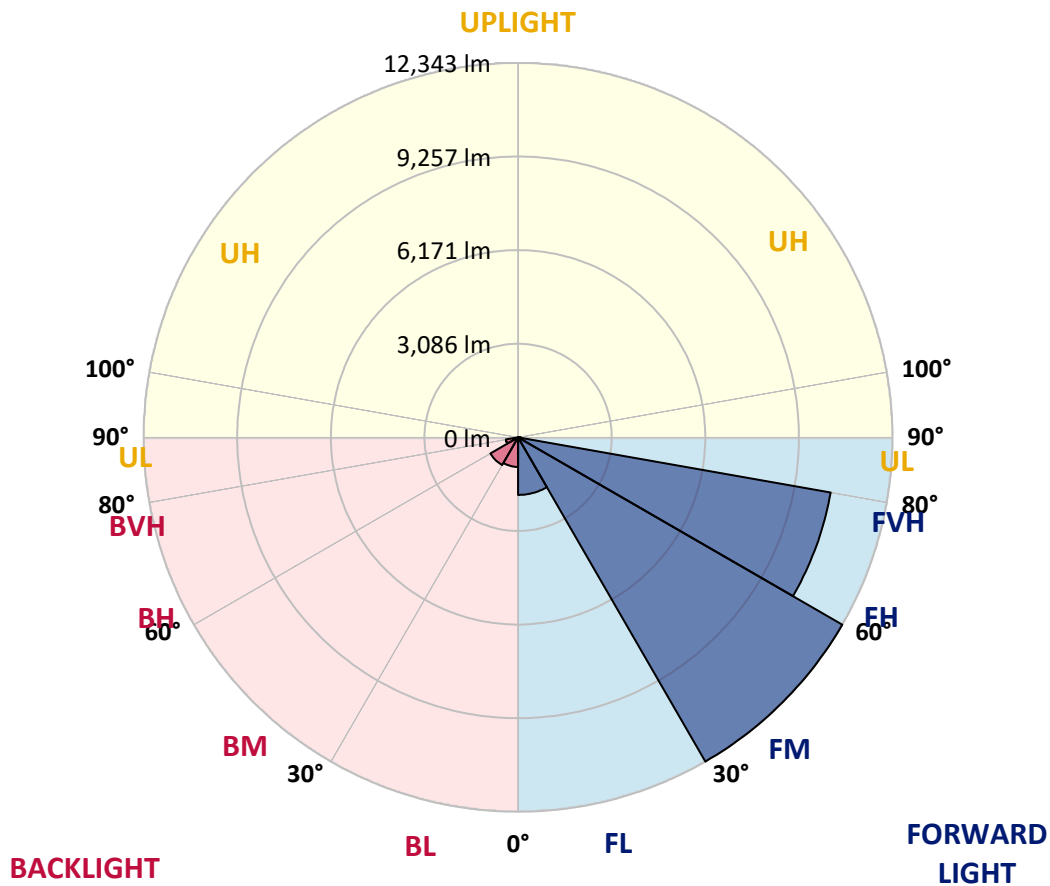
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.5	7.0			
FM (30°-60°)	12343.0	45.3			
FH (60°-80°)	10465.2	38.4			G4/12000
FVH (80°-90°)	91.7	0.3			G1/100
BL (0°-30°)	974.6	3.6	B2/1000		
BM (30°-60°)	1054.0	3.9	B2/2500		
BH (60°-80°)	408.2	1.5	B1/500		G1/500
BVH (80°-90°)	10.4	0.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4573.3	4565.9	4570.8	4608.3	4678.1	4710.6	4765.5	4775.4	4820.3	4877.7	4900.2
5°	4276.4	4251.5	4264.0	4316.4	4396.2	4486.0	4588.3	4615.8	4728.0	4855.3	4950.1
7.5°	4004.5	3977.0	4007.0	4089.3	4201.6	4298.9	4451.1	4468.5	4648.2	4872.7	5044.9
10°	3577.8	3585.3	3645.2	3789.9	3962.1	4164.2	4368.7	4393.7	4615.8	4930.1	5197.1
12.5°	3251.0	3233.5	3298.4	3463.1	3705.1	3999.5	4306.4	4338.8	4618.2	5017.4	5391.7
15°	3098.8	3093.8	3121.2	3241.0	3475.5	3822.3	4249.0	4291.4	4650.7	5097.3	5576.3
17.5°	3103.8	3096.3	3093.8	3163.7	3338.3	3690.1	4186.6	4241.5	4678.1	5184.6	5770.9
20°	3320.8	3285.9	3223.5	3191.1	3295.9	3605.3	4144.2	4206.6	4718.0	5276.9	5978.0
22.5°	3774.9	3787.4	3620.2	3445.6	3395.7	3615.3	4139.2	4211.6	4805.4	5421.6	6232.5
25°	4683.1	4663.2	4353.8	3962.1	3690.1	3730.0	4226.5	4313.9	4977.5	5628.7	6472.0
27.5°	5820.8	5838.3	5414.2	4790.4	4221.5	3967.1	4386.2	4473.5	5177.1	5758.5	6631.7
30°	7060.9	7043.4	6589.3	5898.2	4975.0	4361.3	4545.9	4623.2	5276.9	5828.3	6796.4
32.5°	8233.5	8193.6	7744.5	7020.9	5935.6	4982.5	4765.5	4810.4	5409.2	5980.5	7018.4
35°	9234.0	9231.5	8839.8	8068.8	6923.6	5761.0	5142.2	5179.6	5656.2	6222.5	7345.3
37.5°	10266.9	10232.0	9792.9	9089.3	7939.1	6614.2	5718.5	5703.6	6045.4	6579.3	7747.0
40°	11115.2	11092.8	10755.9	10079.8	8994.5	7557.4	6417.1	6372.2	6507.0	7073.3	8305.9
42.5°	11744.0	11746.5	11641.7	11230.0	10112.2	8647.7	7295.4	7225.5	7223.0	7819.3	9044.4
45°	12220.5	12252.9	12410.1	12347.8	11432.1	9917.6	8420.6	8348.3	8226.0	8787.4	9890.2
47.5°	12442.6	12485.0	12959.0	13208.5	12587.3	11177.6	9760.4	9608.2	9368.7	10074.8	10835.8
50°	12420.1	12495.0	13156.1	13914.6	13635.2	12455.0	11220.0	11147.7	10755.9	11437.1	11771.4
52.5°	11911.1	12070.8	13168.6	14343.8	14441.1	13632.7	12729.5	12594.8	12405.1	12859.2	12649.7
55°	10528.9	10723.5	12642.2	14481.0	15069.8	14660.6	14206.5	14096.8	13782.4	14201.5	13415.6
57.5°	9777.9	9945.1	11534.4	14413.6	15603.7	15611.2	15521.4	15431.6	15172.1	15528.9	14313.8
60°	9326.3	9493.5	10943.1	14166.6	16087.8	16614.2	16756.4	16746.4	16372.2	17038.4	15366.7
62.5°	8665.1	8894.7	10326.8	13525.4	16432.1	17602.2	18031.4	17964.0	17547.3	18610.2	16409.6
65°	7330.3	7529.9	9064.3	12467.5	16230.0	18420.6	19413.6	19448.5	18967.0	20089.7	17233.0
67.5°	5139.7	5286.9	6811.4	10247.0	14857.7	18690.0	20828.3	20825.8	20004.9	20848.2	16868.7
70°	2979.0	3181.1	4024.4	6334.8	11559.3	17465.0	21040.3	21112.7	19583.3	19263.9	13959.5
72.5°	1152.7	1319.9	2280.4	3365.8	6027.9	13378.2	18098.7	18310.8	16389.7	14860.2	9715.5
75°	344.3	384.2	1072.9	1791.4	2420.2	6462.1	12252.9	12312.8	11242.5	9268.9	4980.0
77.5°	257.0	284.4	469.1	905.7	848.3	1958.6	6339.8	6923.6	5968.0	3310.9	1372.3
80°	174.7	207.1	334.3	441.6	314.4	521.5	1781.4	1956.1	1821.4	743.5	344.3
82.5°	77.3	99.8	237.0	222.1	114.8	149.7	548.9	583.8	376.7	224.6	119.8
85°	7.5	10.0	89.8	97.3	42.4	34.9	114.8	114.8	82.3	77.3	49.9
87.5°	0.0	0.0	2.5	5.0	5.0	7.5	10.0	12.5	15.0	20.0	25.0
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°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4957.6	4927.6	4965.1	4995.0	5002.5	4947.6	4915.2	4867.7	4857.8	4860.3	4847.8
5°	5024.9	5010.0	5037.4	5005.0	4920.1	4760.5	4623.2	4471.0	4388.7	4341.3	4336.3
7.5°	5149.7	5142.2	5112.3	4965.1	4700.6	4346.3	4004.5	3670.1	3463.1	3388.2	3375.7
10°	5334.3	5319.3	5197.1	4847.8	4283.9	3602.8	3028.9	2549.9	2258.0	2173.1	2068.4
12.5°	5546.4	5516.4	5249.5	4595.8	3655.2	2712.1	1996.0	1459.6	1207.6	1132.7	1132.7
15°	5751.0	5686.1	5219.5	4179.1	2881.7	1764.0	1115.3	843.3	766.0	746.0	746.0
17.5°	5960.6	5835.8	5102.3	3610.3	1991.0	1042.9	743.5	691.1	681.1	683.6	686.1
20°	6157.7	5963.1	4895.2	2926.6	1270.0	728.5	666.2	653.7	648.7	653.7	651.2
22.5°	6372.2	6080.3	4580.8	2180.6	825.8	656.2	633.7	623.8	618.8	626.2	626.2
25°	6584.3	6165.1	4164.2	1467.1	656.2	611.3	598.8	588.8	583.8	586.3	586.3
27.5°	6694.1	6132.7	3617.8	935.6	588.8	566.4	553.9	541.4	533.9	531.4	533.9
30°	6768.9	6032.9	2949.1	666.2	533.9	506.5	494.0	484.0	464.1	451.6	456.6
32.5°	6886.2	5933.1	2223.0	558.9	489.0	446.6	426.6	401.7	374.3	361.8	361.8
35°	7025.9	5795.9	1559.4	504.0	441.6	396.7	359.3	316.9	284.4	274.5	274.5
37.5°	7210.6	5666.1	1037.9	466.6	401.7	354.3	301.9	252.0	217.1	212.1	209.6
40°	7487.5	5556.4	731.0	439.1	366.8	309.4	247.0	194.6	169.7	162.2	162.2
42.5°	7846.8	5444.1	578.8	411.7	336.8	267.0	197.1	154.7	134.7	129.7	127.2
45°	8290.9	5311.9	504.0	386.7	306.9	222.1	157.2	129.7	114.8	109.8	109.8
47.5°	8772.4	5132.2	469.1	354.3	272.0	179.6	132.2	112.3	104.8	102.3	99.8
50°	9246.5	4890.2	439.1	324.4	232.0	147.2	114.8	102.3	97.3	94.8	94.8
52.5°	9660.6	4608.3	401.7	289.4	189.6	127.2	102.3	94.8	89.8	84.8	82.3
55°	10014.9	4301.4	354.3	249.5	154.7	112.3	94.8	87.3	82.3	77.3	74.9
57.5°	10471.5	4126.7	284.4	202.1	127.2	99.8	87.3	79.8	74.9	67.4	67.4
60°	10978.0	3999.5	212.1	159.7	109.8	92.3	79.8	72.4	67.4	59.9	59.9
62.5°	11384.7	3809.9	167.2	129.7	94.8	82.3	72.4	64.9	59.9	52.4	52.4
65°	11539.4	3418.2	137.2	102.3	77.3	72.4	64.9	59.9	52.4	44.9	44.9
67.5°	10840.8	2634.7	114.8	82.3	64.9	62.4	57.4	54.9	44.9	39.9	37.4
70°	8585.3	1606.8	94.8	67.4	54.9	52.4	52.4	47.4	39.9	37.4	34.9
72.5°	5883.2	828.3	77.3	54.9	47.4	47.4	44.9	42.4	37.4	34.9	34.9
75°	3056.4	276.9	59.9	42.4	37.4	39.9	39.9	37.4	34.9	34.9	32.4
77.5°	875.7	124.8	44.9	32.4	29.9	29.9	32.4	32.4	32.4	29.9	29.9
80°	227.0	72.4	32.4	25.0	25.0	25.0	25.0	27.4	29.9	27.4	27.4
82.5°	92.3	39.9	22.5	20.0	20.0	20.0	20.0	22.5	25.0	25.0	25.0
85°	57.4	20.0	17.5	17.5	17.5	15.0	15.0	17.5	17.5	20.0	20.0
87.5°	34.9	15.0	15.0	15.0	15.0	12.5	12.5	12.5	12.5	12.5	12.5
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)