

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: P641240

Luminaire Tested: GWS-SA5F-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31264.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

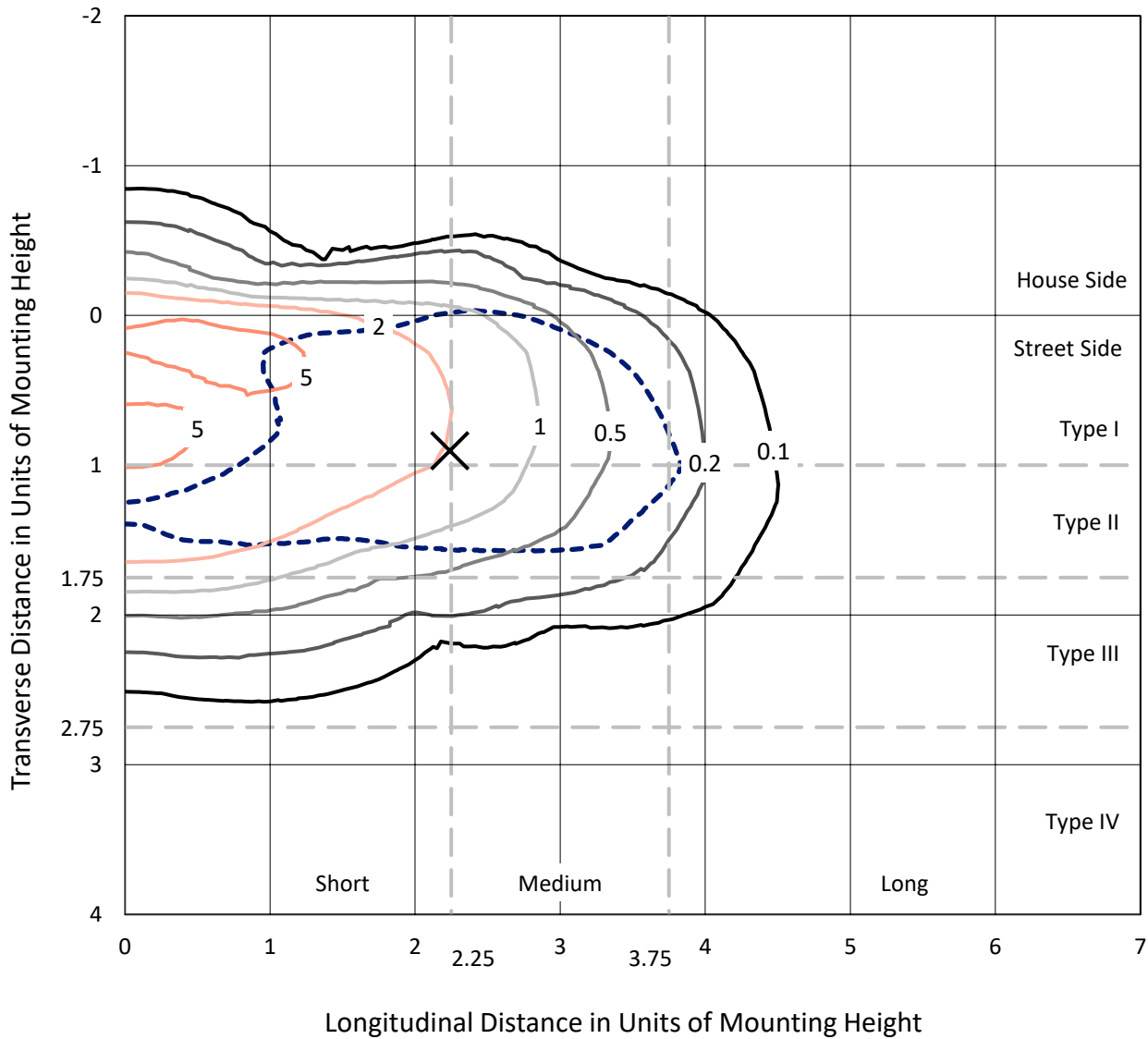
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

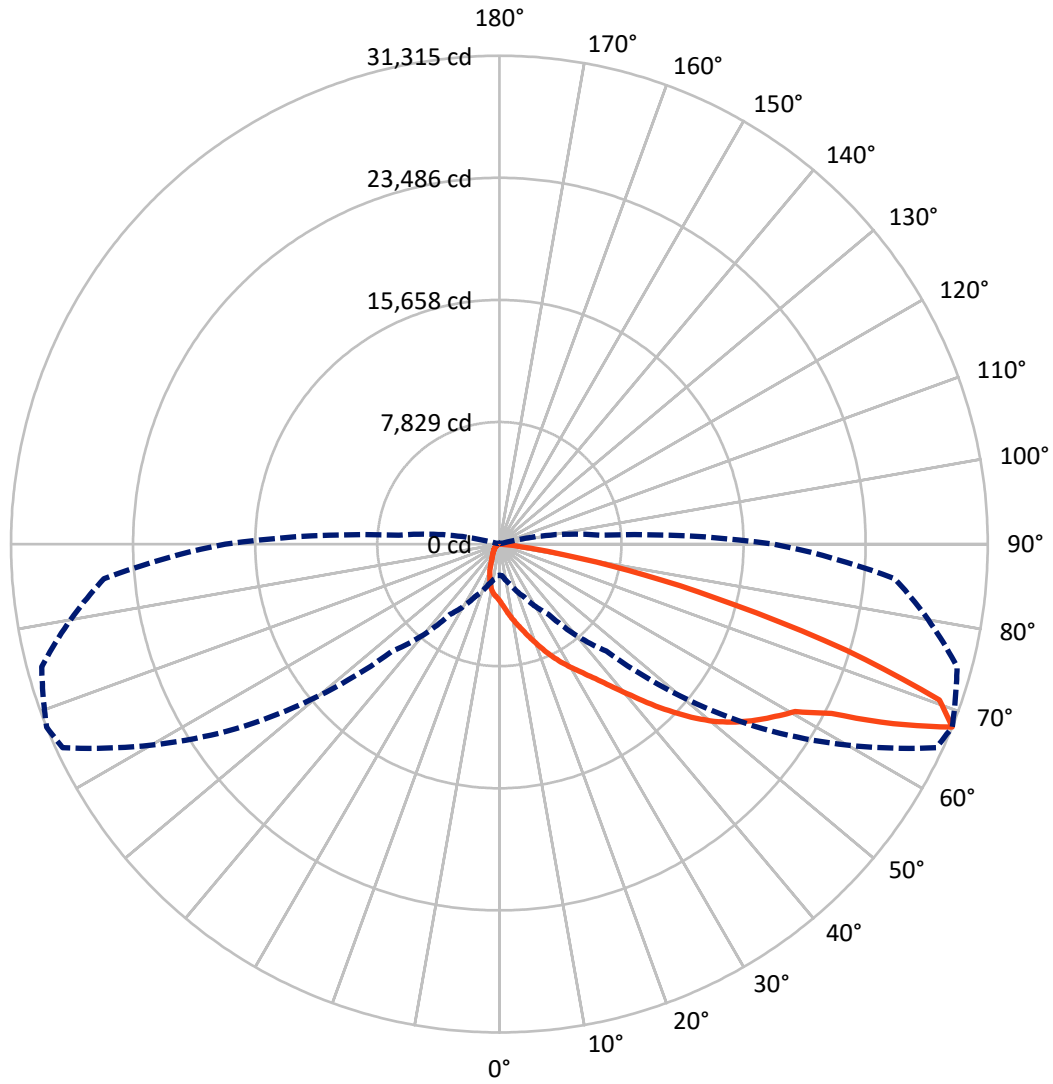
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.7	0.0	2257.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29006.8	0.0	29006.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	31264.5	0.0	31264.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	1.1
10°-20°	1019.0	3.3
20°-30°	1751.2	5.6
30°-40°	3044.7	9.7
40°-50°	5312.7	17.0
50°-60°	8012.9	25.6
60°-70°	8034.8	25.7
70°-80°	3545.0	11.3
80°-90°	189.4	0.6
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°	31264.5	100.0
0°-180°	31264.5	100.0

Coefficient of Utilization



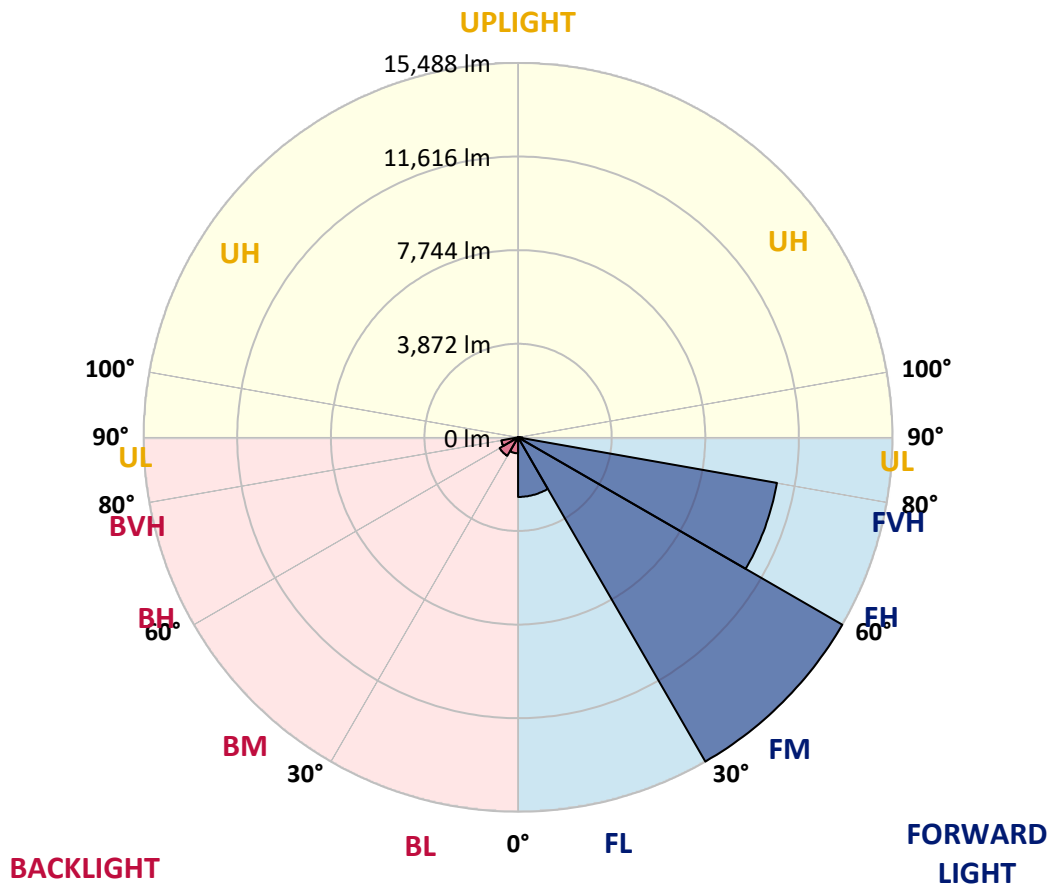
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.6	7.9			
FM (30°-60°)	15488.4	49.5			
FH (60°-80°)	10875.2	34.8			G4/12000
FVH (80°-90°)	178.7	0.6			G2/225
BL (0°-30°)	660.5	2.1	B2/1000		
BM (30°-60°)	881.9	2.8	B1/1000		
BH (60°-80°)	704.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	10.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4
2.5°	4236.8	4263.7	4236.8	4242.8	4165.0	4129.1	4051.3	3943.6	3916.7	3847.8	3743.1
5°	4754.4	4778.4	4751.5	4745.5	4655.7	4589.9	4461.2	4275.7	4221.9	4087.2	3880.8
7.5°	5035.7	5050.7	5059.6	5074.6	5041.7	4987.8	4871.1	4640.7	4583.9	4365.5	4075.2
10°	5065.6	5077.6	5122.5	5212.2	5278.1	5311.0	5245.2	5032.7	4942.9	4730.5	4314.6
12.5°	4981.8	4999.8	5071.6	5221.2	5403.7	5571.3	5613.2	5427.7	5346.9	5074.6	4595.9
15°	4871.1	4886.1	4984.8	5188.3	5463.6	5771.8	5945.3	5864.5	5774.8	5490.5	4907.0
17.5°	4700.6	4721.5	4859.2	5134.4	5490.5	5930.3	6304.4	6331.3	6268.4	5960.3	5251.1
20°	4604.8	4619.8	4742.5	5026.7	5472.5	6047.0	6639.5	6893.8	6825.0	6501.8	5646.1
22.5°	4685.6	4697.6	4778.4	4999.8	5412.7	6112.9	6950.6	7456.3	7417.4	7082.3	6062.0
25°	5110.5	5149.4	5101.5	5140.4	5439.6	6148.8	7202.0	8018.8	8027.8	7689.7	6492.9
27.5°	5972.2	5921.4	5807.7	5613.2	5649.1	6244.5	7417.4	8548.4	8626.2	8282.1	6875.8
30°	6848.9	6819.0	6750.2	6448.0	6196.6	6457.0	7599.9	9090.0	9212.7	8865.6	7216.9
32.5°	7833.3	7863.2	7740.6	7378.5	6950.6	6887.8	7788.4	9604.6	9835.0	9526.8	7617.9
35°	9009.2	9018.2	8775.8	8374.9	7890.2	7599.9	8126.5	10173.1	10598.0	10370.6	8153.5
37.5°	10155.2	10209.0	10077.4	9446.1	9015.2	8485.6	8686.1	10903.2	11501.6	11411.9	8826.7
40°	11169.5	11253.3	11211.4	10601.0	10035.5	9589.7	9553.8	11759.0	12593.7	12695.5	9715.3
42.5°	11977.4	12031.2	12064.1	11630.3	11130.6	10879.3	10624.9	12752.3	13883.3	14299.2	10804.5
45°	12830.1	12848.1	12916.9	12623.7	12186.8	12207.8	11890.6	13958.1	15241.8	16076.5	12055.2
47.5°	13916.3	13976.1	13943.2	13635.0	13240.0	13476.4	13198.2	15199.9	16582.2	17973.5	13335.8
50°	15238.8	15301.6	15271.7	14912.6	14472.8	14571.5	14398.0	16405.7	17874.8	19762.8	14401.0
52.5°	15921.0	15971.8	16342.8	16504.4	16274.0	15645.7	15421.3	17731.2	18966.9	21234.9	15379.4
55°	15591.8	15627.7	16435.6	17117.8	17961.6	17333.2	16450.6	18754.5	19930.4	22383.9	16106.5
57.5°	14227.4	14421.9	15520.0	16675.0	18449.3	18999.8	18120.2	19867.5	20857.9	23182.8	16821.6
60°	11429.8	11420.8	12994.7	15068.2	17497.8	19457.6	20477.9	21372.6	21788.5	23796.2	17779.1
62.5°	6316.3	6373.2	8467.6	11199.4	14852.8	18272.8	22246.3	23972.7	23909.9	24867.3	19278.1
65°	3144.7	3258.4	4395.4	6415.1	9882.9	15101.1	22551.5	27940.2	27760.7	27389.7	22374.9
67.5°	1995.7	2040.6	2669.0	3728.2	5493.5	9706.4	20651.5	30899.4	31315.3	30381.8	25447.8
70°	1292.6	1367.4	1855.1	2549.3	3315.2	5002.8	15128.1	28981.5	29936.0	30052.6	23532.9
72.5°	703.1	757.0	1184.9	1819.2	2393.7	2501.4	8497.6	21749.6	23284.5	25492.7	18410.4
75°	400.9	439.8	649.3	1235.7	1756.4	1523.0	3767.1	14559.6	15538.0	18218.9	13192.2
77.5°	242.4	275.3	365.0	601.4	1101.1	1017.3	1424.2	8862.6	9485.0	10870.3	6923.7
80°	110.7	131.7	230.4	332.1	601.4	481.7	544.6	4132.1	4266.7	4461.2	2291.9
82.5°	50.9	59.8	104.7	197.5	341.1	278.3	209.4	954.5	1343.5	1271.6	583.5
85°	6.0	6.0	38.9	80.8	95.7	71.8	86.8	215.4	272.3	383.0	167.6
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	18.0	26.9	38.9	62.8	41.9
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°	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4
2.5°	3695.2	3611.5	3536.7	3426.0	3351.2	3267.4	3210.5	3141.7	3114.8	3093.8	3063.9
5°	3779.0	3644.4	3461.9	3258.4	3090.8	2932.3	2785.6	2689.9	2606.1	2594.2	2552.3
7.5°	3916.7	3716.2	3408.0	3075.9	2791.6	2528.3	2321.9	2154.3	2070.5	2043.6	1995.7
10°	4099.2	3823.9	3327.2	2818.6	2408.6	2094.5	1861.1	1672.6	1540.9	1493.1	1457.2
12.5°	4302.6	3922.6	3198.6	2501.4	2034.6	1675.6	1379.4	1178.9	1095.1	1065.2	1038.3
15°	4536.0	4015.4	2995.1	2184.2	1669.6	1232.7	1023.3	936.5	900.6	891.6	882.7
17.5°	4760.4	4075.2	2752.7	1855.1	1283.6	957.5	858.7	825.8	816.8	807.9	801.9
20°	5014.8	4117.1	2468.5	1543.9	996.4	810.9	763.0	739.0	721.1	703.1	700.2
22.5°	5275.1	4117.1	2160.3	1238.7	834.8	727.1	673.2	628.3	595.4	577.5	571.5
25°	5523.4	4060.3	1855.1	990.4	736.1	646.3	577.5	526.6	481.7	460.8	454.8
27.5°	5699.9	3913.7	1588.8	837.8	667.2	574.5	490.7	433.9	397.9	377.0	374.0
30°	5810.7	3695.2	1343.5	748.0	607.4	499.7	415.9	368.0	341.1	326.1	320.2
32.5°	5894.4	3426.0	1125.0	685.2	550.5	433.9	362.0	323.1	299.2	287.2	284.2
35°	6062.0	3171.6	963.5	628.3	490.7	380.0	317.2	287.2	269.3	254.3	251.3
37.5°	6295.4	2959.2	834.8	577.5	433.9	338.1	287.2	260.3	245.4	230.4	227.4
40°	6639.5	2824.5	739.0	526.6	383.0	305.2	263.3	239.4	218.4	203.5	200.5
42.5°	7169.1	2761.7	676.2	475.7	338.1	275.3	242.4	212.4	191.5	176.5	173.5
45°	7800.4	2794.6	622.4	424.9	308.2	254.3	215.4	185.5	164.6	149.6	146.6
47.5°	8476.6	2911.3	577.5	377.0	278.3	233.4	191.5	158.6	140.6	125.7	122.7
50°	9182.8	3102.8	538.6	332.1	254.3	209.4	164.6	137.6	119.7	107.7	104.7
52.5°	9796.1	3363.1	499.7	299.2	233.4	185.5	143.6	119.7	101.7	89.8	86.8
55°	10382.6	3608.5	469.8	269.3	209.4	161.6	125.7	101.7	86.8	74.8	71.8
57.5°	11019.9	3868.8	433.9	242.4	188.5	143.6	110.7	86.8	74.8	62.8	59.8
60°	11947.5	4254.8	380.0	221.4	164.6	125.7	95.7	77.8	65.8	50.9	47.9
62.5°	13284.9	4957.9	320.2	191.5	140.6	107.7	80.8	65.8	53.9	41.9	35.9
65°	15786.3	6154.7	263.3	158.6	113.7	89.8	68.8	53.9	41.9	29.9	26.9
67.5°	17587.6	6465.9	212.4	128.7	92.8	68.8	56.8	41.9	29.9	20.9	18.0
70°	15376.4	4643.7	164.6	104.7	77.8	53.9	44.9	32.9	20.9	15.0	12.0
72.5°	11585.4	3034.0	122.7	80.8	59.8	44.9	32.9	26.9	18.0	12.0	9.0
75°	8165.4	1753.4	89.8	59.8	41.9	32.9	26.9	20.9	15.0	9.0	9.0
77.5°	4185.9	724.1	62.8	41.9	29.9	20.9	18.0	12.0	12.0	9.0	6.0
80°	1271.6	239.4	35.9	26.9	20.9	15.0	9.0	9.0	9.0	6.0	3.0
82.5°	290.2	77.8	20.9	20.9	15.0	12.0	9.0	3.0	3.0	0.0	0.0
85°	74.8	23.9	18.0	15.0	15.0	12.0	6.0	3.0	0.0	0.0	0.0
87.5°	26.9	15.0	15.0	15.0	12.0	9.0	6.0	0.0	0.0	0.0	0.0
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)