

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: P640292

Luminaire Tested: GWS-SA5D-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24212 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

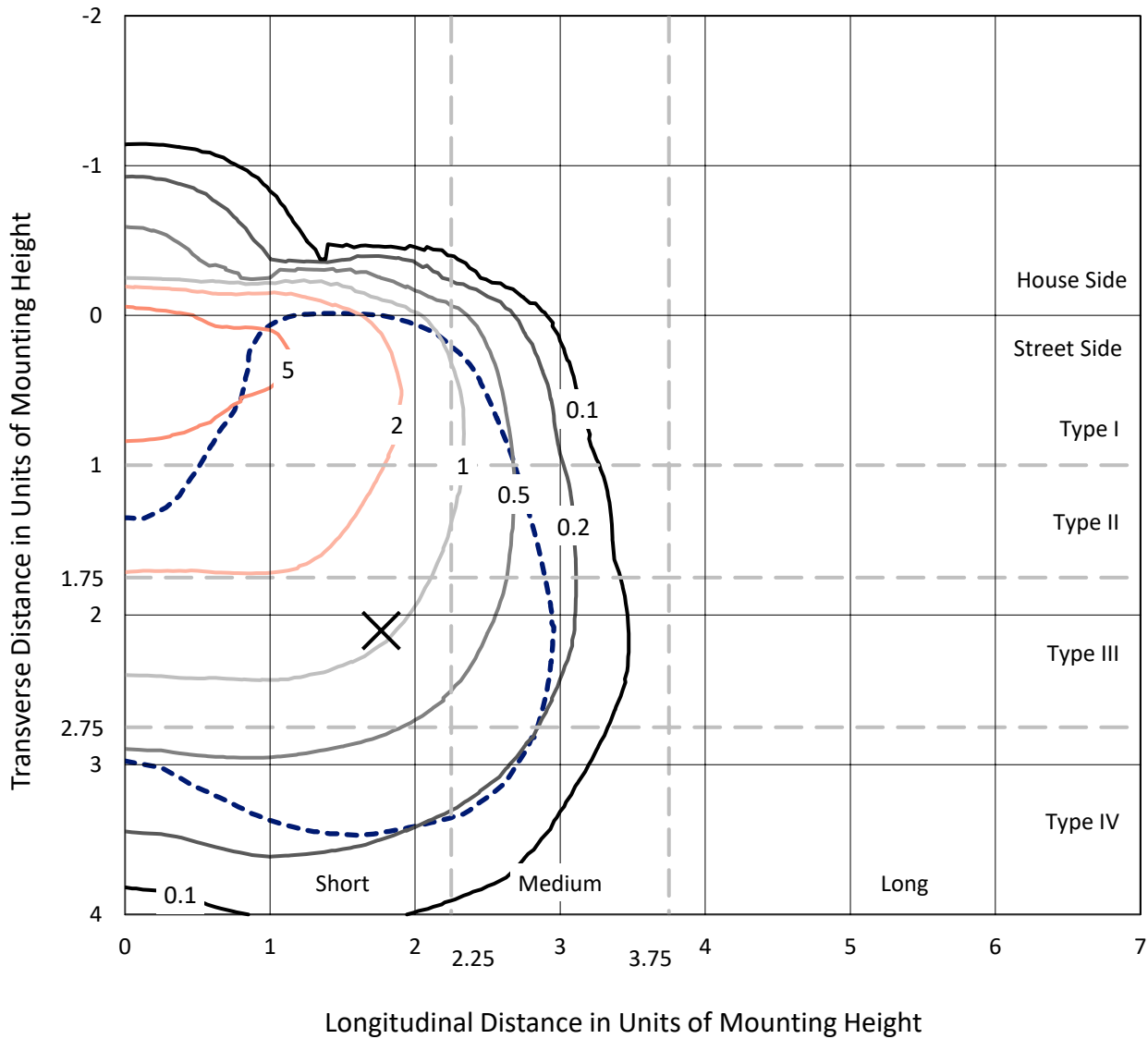
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

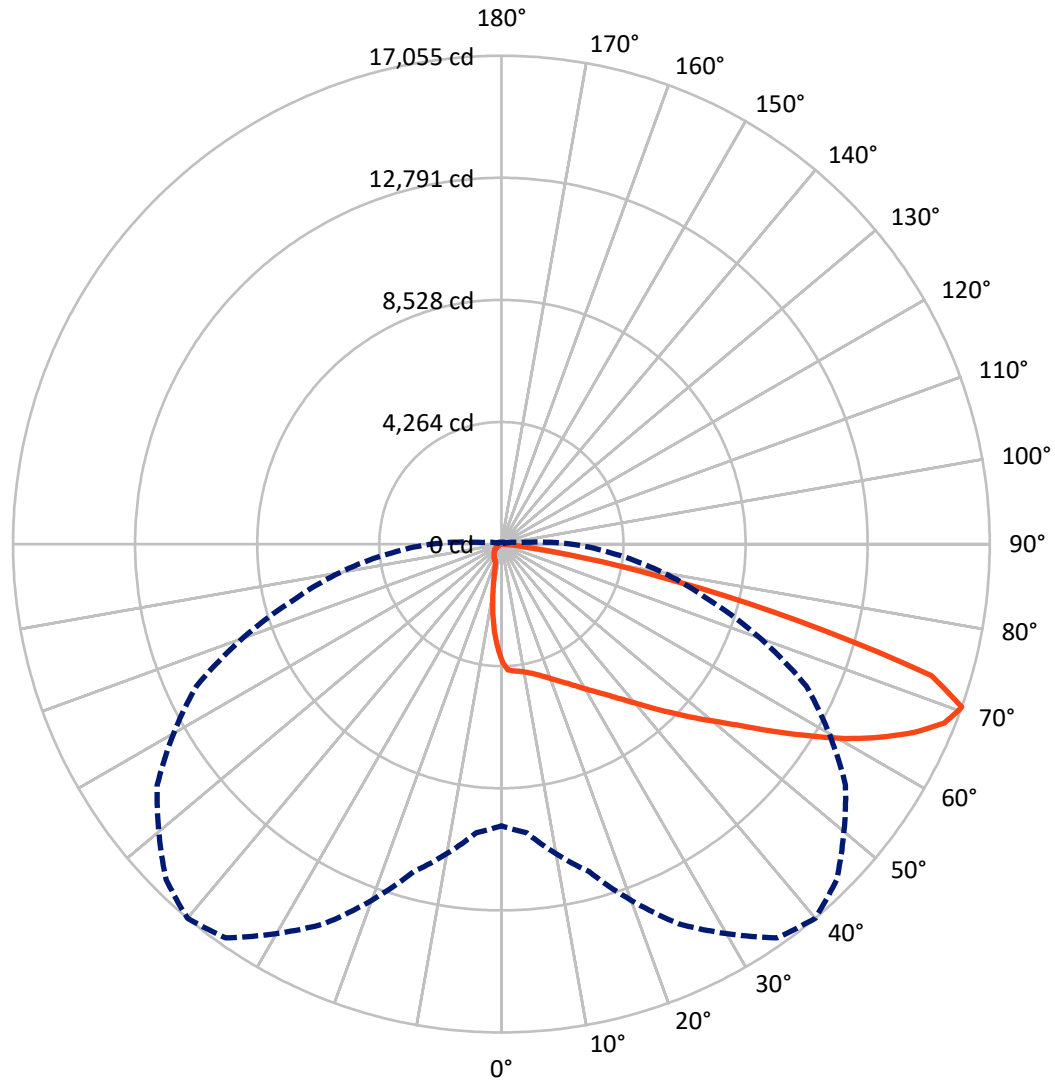
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1979.9	0.0	1979.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	22232.1	0.0	22232.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	24212.0	0.0	24212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.4
10°-20°	880.7	3.6
20°-30°	1474.0	6.1
30°-40°	2315.1	9.6
40°-50°	3662.0	15.1
50°-60°	5341.9	22.1
60°-70°	6622.0	27.4
70°-80°	3350.4	13.8
80°-90°	218.7	0.9
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°	24212.0	100.0
0°-180°	24212.0	100.0

Coefficient of Utilization



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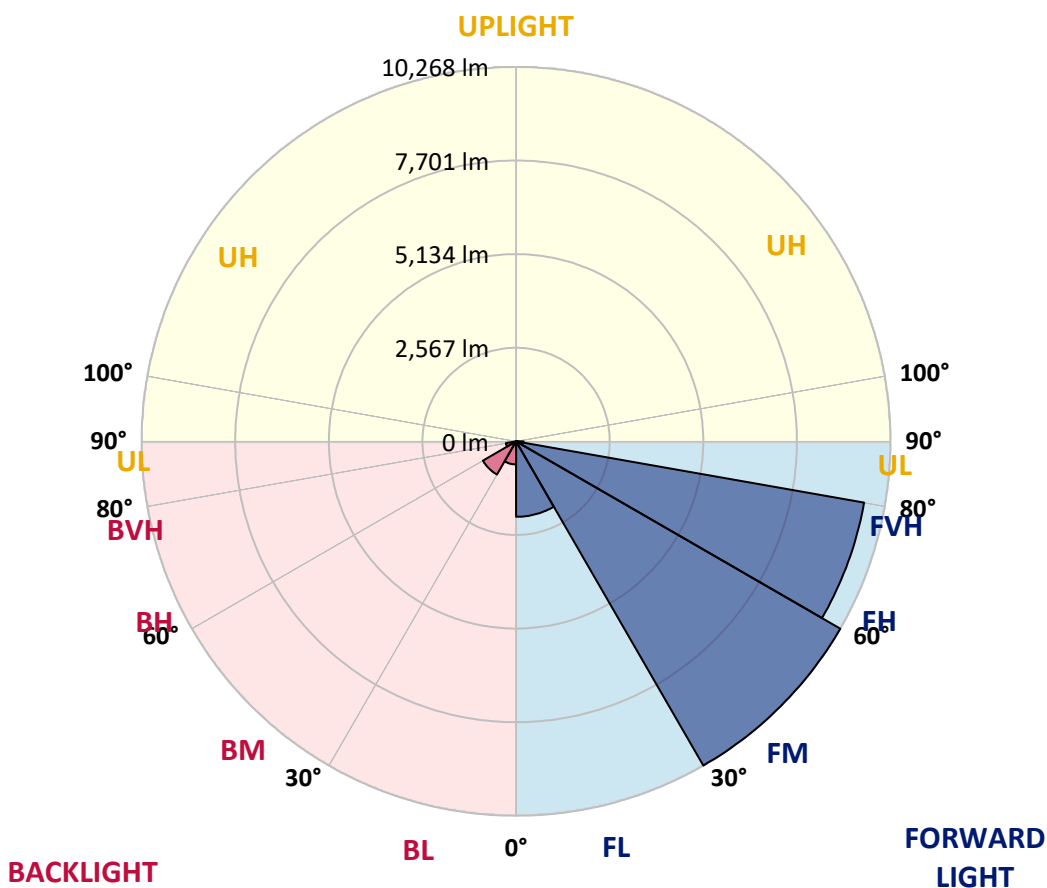
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.7	8.5			
FM (30°-60°)	10268.0	42.4			
FH (60°-80°)	9690.1	40.0			G4/12000
FVH (80°-90°)	204.3	0.8			G2/225
BL (0°-30°)	632.3	2.6	B2/1000		
BM (30°-60°)	1050.9	4.3	B2/2500		
BH (60°-80°)	282.3	1.2	B1/500		G1/500
BVH (80°-90°)	14.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5
2.5°	4416.9	4432.3	4430.1	4436.7	4421.3	4397.1	4392.7	4359.6	4300.1	4225.2	4141.5
5°	4507.2	4524.8	4511.6	4505.0	4476.4	4449.9	4443.3	4408.1	4339.8	4238.5	4093.1
7.5°	4584.3	4588.7	4579.9	4564.5	4522.6	4487.4	4463.2	4414.7	4333.2	4231.9	4064.4
10°	4597.5	4595.3	4599.7	4601.9	4575.5	4544.7	4524.8	4458.8	4355.2	4247.3	4066.6
12.5°	4582.1	4582.1	4610.8	4643.8	4643.8	4628.4	4608.6	4549.1	4427.9	4300.1	4110.7
15°	4601.9	4608.6	4663.6	4725.3	4745.1	4729.7	4720.9	4659.2	4533.7	4392.7	4190.0
17.5°	4672.4	4679.0	4767.2	4859.7	4883.9	4866.3	4848.7	4787.0	4652.6	4498.4	4280.3
20°	4776.0	4793.6	4906.0	5024.9	5046.9	5024.9	4989.7	4903.7	4769.4	4613.0	4366.2
22.5°	4965.4	4976.4	5097.6	5223.2	5234.2	5198.9	5146.1	5027.1	4886.1	4734.1	4463.2
25°	5216.6	5232.0	5353.1	5474.3	5445.7	5392.8	5320.1	5185.7	5024.9	4877.3	4586.5
27.5°	5516.2	5533.8	5652.7	5758.5	5683.6	5621.9	5540.4	5373.0	5210.0	5075.6	4745.1
30°	5840.0	5855.4	5961.2	6055.9	5956.8	5884.1	5787.1	5615.3	5450.1	5348.7	4969.8
32.5°	6152.8	6150.6	6251.9	6329.1	6227.7	6170.4	6082.3	5908.3	5776.1	5732.1	5304.7
35°	6443.6	6443.6	6527.3	6604.4	6531.7	6500.9	6419.4	6280.6	6205.7	6258.6	5751.9
37.5°	6736.6	6721.2	6800.5	6886.4	6879.8	6882.0	6835.7	6769.6	6774.0	6961.3	6366.5
40°	6978.9	6972.3	7064.8	7177.2	7265.3	7335.8	7307.2	7331.4	7470.2	7820.4	7153.0
42.5°	7172.8	7188.2	7307.2	7485.6	7708.1	7851.3	7871.1	7970.2	8327.1	8869.0	8040.7
45°	7395.3	7397.5	7562.7	7835.9	8190.5	8417.4	8496.7	8752.3	9259.0	9957.3	9014.4
47.5°	7668.4	7642.0	7827.1	8210.4	8723.6	9058.5	9199.5	9518.9	10303.2	11019.1	9807.5
50°	7970.2	7921.8	8131.1	8653.2	9320.6	9739.2	10025.6	10492.6	11338.5	11891.5	10397.9
52.5°	8320.5	8274.2	8512.2	9162.0	10036.6	10545.5	10913.4	11384.8	12226.3	12556.8	10750.4
55°	8765.5	8719.2	8970.4	9772.2	10882.5	11543.4	11928.9	12325.5	13052.4	13048.0	11005.9
57.5°	9259.0	9195.1	9543.1	10543.3	11937.7	12625.1	13017.2	13211.0	13680.3	13429.1	11177.7
60°	9825.1	9767.8	10250.3	11461.9	13156.0	13792.6	14039.3	13960.0	14195.8	13653.8	11118.2
62.5°	10336.2	10309.8	10909.0	12435.6	14316.9	14854.4	14922.7	14576.9	14574.7	13658.2	10717.3
65°	10867.1	10917.8	11807.8	13556.9	15484.5	15845.8	15729.0	15189.3	14726.7	13118.5	9532.1
67.5°	11065.4	11213.0	12400.4	14570.3	16405.3	16687.3	16482.4	15495.5	14094.4	11303.3	7258.7
70°	9840.5	10118.1	11840.8	14627.5	16786.4	17055.2	16563.9	14671.6	11750.5	7487.8	3976.3
72.5°	7483.4	7807.2	9867.0	11977.4	15096.8	15709.2	14869.9	11953.2	7573.7	3280.2	1335.0
75°	4187.8	4538.1	7349.0	9018.8	10135.7	10695.3	10386.9	7668.4	3355.1	856.9	398.7
77.5°	1416.5	1533.2	3419.0	5580.1	6690.3	6188.1	5238.6	3808.9	1233.6	326.0	211.5
80°	839.3	883.4	1273.3	2777.9	3520.3	2918.9	2304.3	1407.7	627.8	174.0	147.6
82.5°	251.1	297.4	702.7	1031.0	1379.0	859.1	727.0	804.1	326.0	94.7	123.4
85°	0.0	0.0	149.8	319.4	361.3	141.0	141.0	456.0	59.5	39.7	90.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	6.6	8.8	19.8
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°	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5	4108.5
2.5°	4082.1	4004.9	3914.6	3828.7	3747.2	3641.5	3590.8	3529.1	3476.2	3447.6	3463.0
5°	4000.5	3879.4	3694.3	3507.1	3317.6	3139.2	2978.4	2870.4	2773.5	2722.8	2733.9
7.5°	3930.0	3767.0	3478.4	3172.2	2868.2	2562.0	2313.1	2119.2	1969.4	1907.7	1896.7
10°	3899.2	3694.3	3286.8	2846.2	2379.2	1967.2	1614.8	1401.1	1249.1	1174.2	1187.4
12.5°	3914.6	3656.9	3123.8	2526.8	1921.0	1440.7	1103.7	903.2	795.3	751.2	740.2
15°	3958.7	3648.1	2978.4	2200.7	1482.6	1006.7	762.2	680.7	658.7	654.3	654.3
17.5°	4009.4	3650.3	2828.6	1870.3	1125.7	746.8	652.1	636.7	630.0	625.6	627.8
20°	4060.0	3650.3	2656.7	1535.5	845.9	645.5	621.2	610.2	603.6	601.4	601.4
22.5°	4121.7	3650.3	2465.1	1224.8	678.5	612.4	592.6	586.0	579.4	577.2	575.0
25°	4196.6	3652.5	2253.6	958.3	616.8	583.8	568.4	561.8	555.1	550.7	550.7
27.5°	4304.5	3670.1	2020.1	746.8	581.6	557.3	544.1	537.5	530.9	524.3	524.3
30°	4461.0	3714.2	1757.9	616.8	548.5	528.7	515.5	511.1	504.5	497.9	495.7
32.5°	4694.5	3791.3	1487.0	552.9	517.7	497.9	482.4	478.0	471.4	464.8	462.6
35°	5020.5	3932.3	1222.6	513.3	478.0	458.2	449.4	447.2	438.4	431.8	431.8
37.5°	5498.5	4161.4	969.3	473.6	445.0	429.6	418.6	414.2	405.3	398.7	396.5
40°	6082.3	4458.8	753.4	442.8	414.2	398.7	387.7	381.1	370.1	361.3	356.9
42.5°	6826.9	4822.2	594.8	409.7	385.5	370.1	361.3	348.1	332.6	319.4	317.2
45°	7602.4	5196.7	491.3	378.9	359.1	345.9	334.8	317.2	295.2	279.8	275.4
47.5°	8197.1	5430.3	429.6	345.9	330.4	319.4	306.2	284.2	257.7	240.1	235.7
50°	8622.3	5465.5	383.3	315.0	306.2	295.2	275.4	248.9	220.3	202.7	198.3
52.5°	8831.6	5306.9	345.9	286.4	279.8	268.8	244.5	215.9	185.0	167.4	163.0
55°	8926.3	5007.3	310.6	262.2	253.3	240.1	213.7	182.8	152.0	136.6	132.2
57.5°	8888.9	4564.5	279.8	237.9	226.9	211.5	182.8	149.8	125.6	110.1	107.9
60°	8611.3	3943.3	248.9	213.7	200.5	182.8	154.2	123.4	101.3	90.3	88.1
62.5°	8012.1	3172.2	218.1	185.0	176.2	158.6	132.2	101.3	83.7	77.1	74.9
65°	6785.1	2242.6	187.3	156.4	152.0	134.4	110.1	83.7	72.7	68.3	66.1
67.5°	4877.3	1363.6	158.6	134.4	130.0	114.6	92.5	72.7	66.1	63.9	63.9
70°	2451.9	645.5	125.6	110.1	110.1	94.7	79.3	66.1	63.9	61.7	61.7
72.5°	832.7	275.4	94.7	85.9	90.3	81.5	68.3	61.7	61.7	61.7	61.7
75°	284.2	145.4	66.1	61.7	66.1	66.1	59.5	59.5	61.7	61.7	61.7
77.5°	185.0	96.9	46.3	41.9	50.7	50.7	50.7	55.1	59.5	59.5	59.5
80°	152.0	52.9	30.8	28.6	37.5	37.5	41.9	50.7	55.1	55.1	55.1
82.5°	130.0	33.0	17.6	19.8	26.4	28.6	35.2	41.9	48.5	50.7	50.7
85°	88.1	17.6	13.2	15.4	17.6	22.0	28.6	35.2	39.7	44.1	44.1
87.5°	24.2	6.6	8.8	11.0	11.0	15.4	22.0	26.4	30.8	33.0	33.0
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)