

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: P640011

Luminaire Tested: GWS-SA5D-722-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

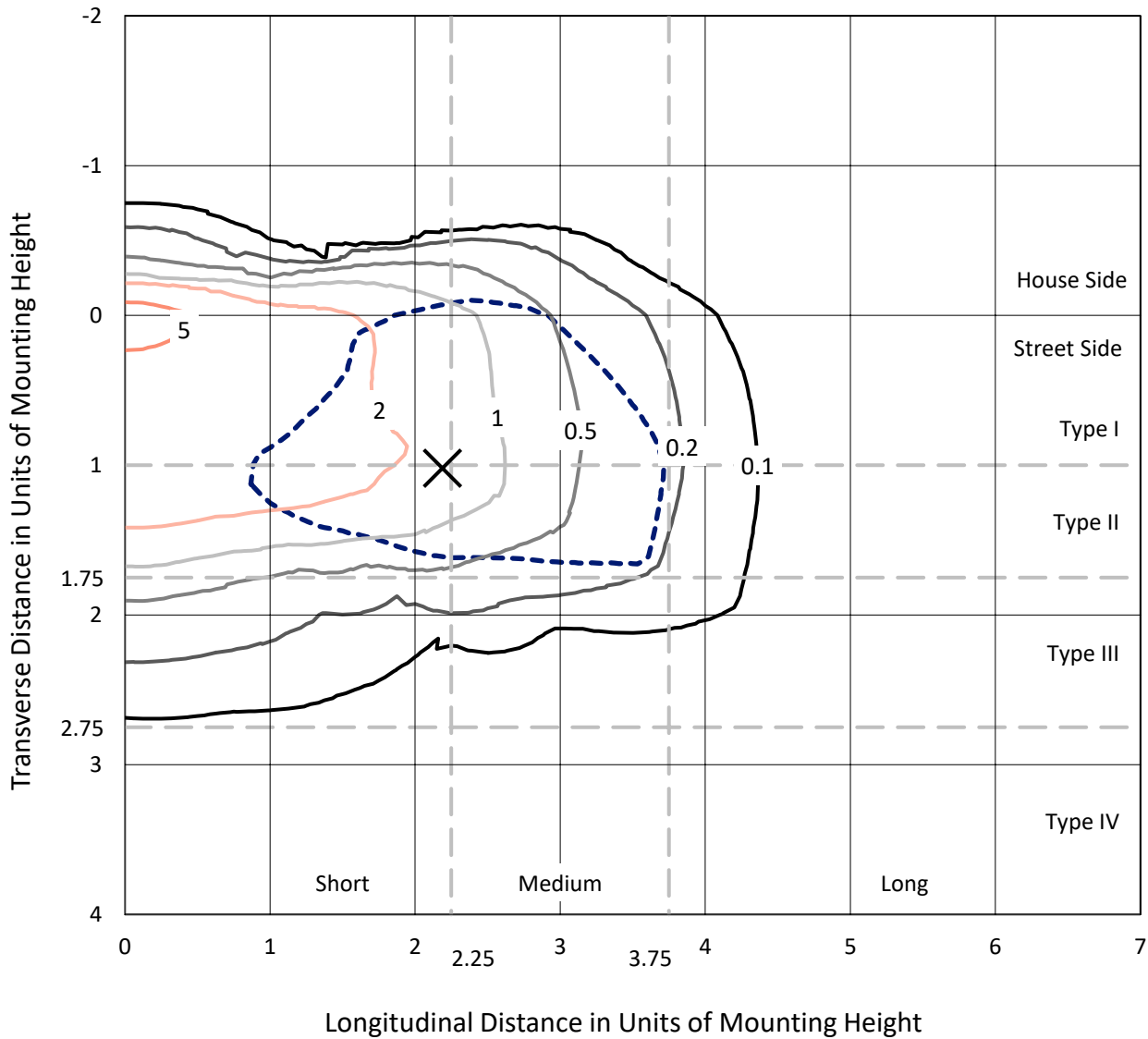
Lumens per Lamp: N/A  
Luminaire Lumens: 17541.2 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

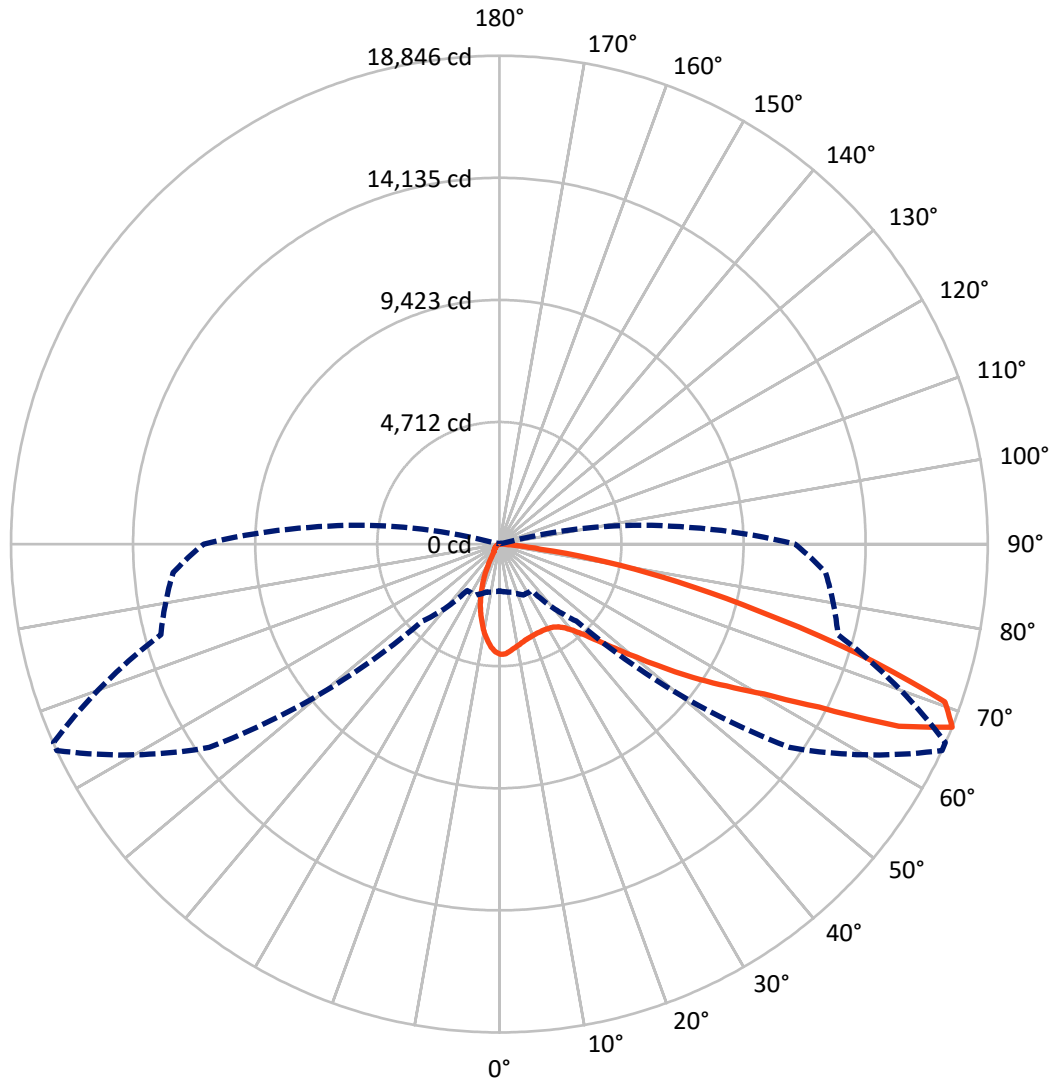
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2190.4	0.0	2190.4
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	15350.8	0.0	15350.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	17541.2	0.0	17541.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.3	2.0
10°-20°	794.3	4.5
20°-30°	1135.0	6.5
30°-40°	1651.3	9.4
40°-50°	2586.2	14.7
50°-60°	4034.5	23.0
60°-70°	4431.7	25.3
70°-80°	2358.5	13.4
80°-90°	196.4	1.1
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°	17541.2	100.0
0°-180°	17541.2	100.0

**Coefficient of Utilization**



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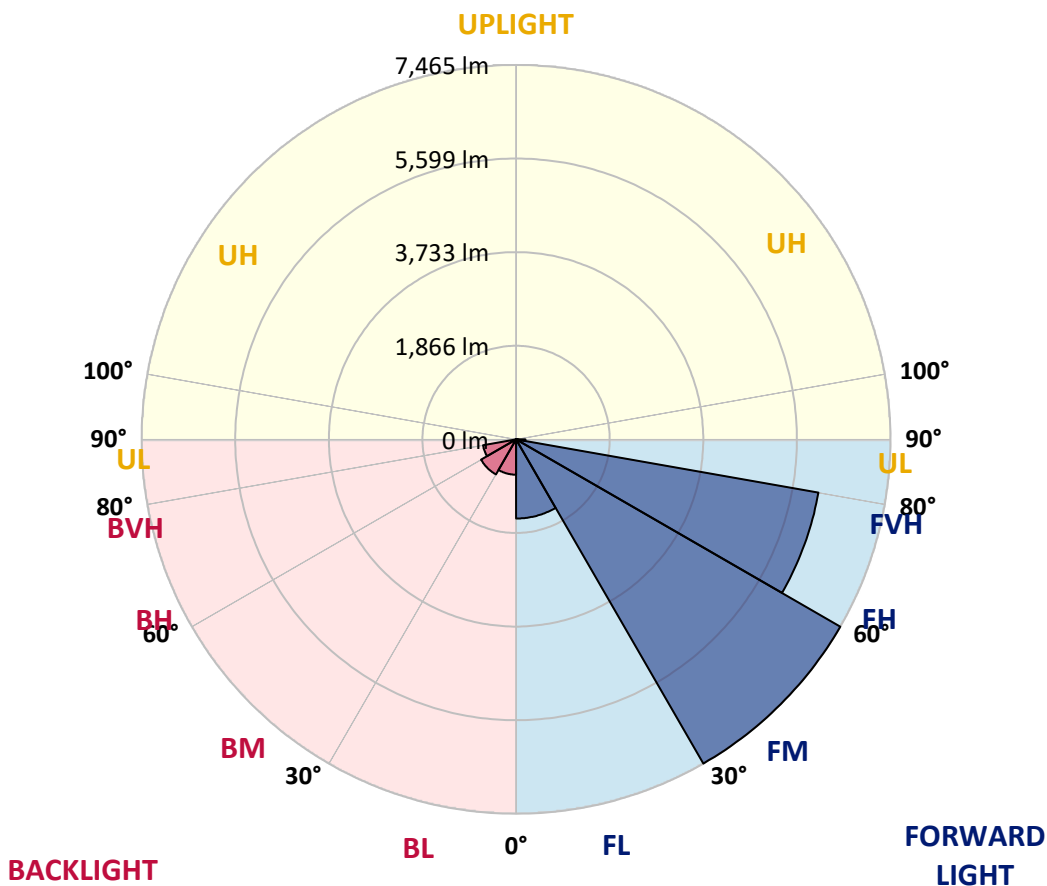
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1578.6	9.0			
FM (30°-60°)	7465.2	42.6			
FH (60°-80°)	6121.2	34.9			G3/7500
FVH (80°-90°)	185.9	1.1			G2/225
BL (0°-30°)	704.0	4.0	B2/1000		
BM (30°-60°)	806.8	4.6	B1/1000		
BH (60°-80°)	669.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.5	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3
2.5°	4106.8	4119.5	4102.0	4144.8	4152.8	4200.4	4227.3	4246.4	4244.8	4268.6	4268.6
5°	3865.7	3878.4	3868.8	3914.8	3951.3	4025.9	4087.7	4159.1	4162.3	4235.3	4262.2
7.5°	3661.0	3662.6	3662.6	3719.7	3767.3	3859.3	3951.3	4060.8	4073.5	4186.1	4257.5
10°	3492.9	3497.7	3499.2	3564.3	3616.6	3727.7	3845.0	3976.7	3991.0	4143.3	4254.3
12.5°	3377.1	3378.7	3385.0	3453.2	3510.3	3626.1	3745.1	3895.8	3914.8	4094.1	4240.0
15°	3321.6	3318.4	3321.6	3378.7	3435.8	3546.8	3669.0	3830.8	3851.4	4052.8	4241.6
17.5°	3318.4	3313.7	3310.5	3353.3	3389.8	3488.1	3611.9	3787.9	3810.1	4033.8	4259.1
20°	3364.4	3361.2	3345.4	3364.4	3372.3	3453.2	3575.4	3754.6	3776.8	4030.6	4297.1
22.5°	3485.0	3477.0	3453.2	3435.8	3393.0	3440.6	3550.0	3730.8	3756.2	4038.6	4346.3
25°	3664.2	3661.0	3630.9	3588.1	3478.6	3459.6	3551.6	3730.8	3754.6	4048.1	4398.6
27.5°	3933.9	3914.8	3876.8	3802.2	3645.2	3534.1	3583.3	3740.4	3764.1	4060.8	4441.5
30°	4208.3	4206.7	4194.0	4117.9	3884.7	3676.9	3649.9	3765.7	3787.9	4071.9	4481.1
32.5°	4492.2	4497.0	4528.7	4470.0	4214.6	3889.5	3770.5	3818.1	3833.9	4094.1	4516.0
35°	4761.9	4771.4	4855.5	4876.1	4616.0	4211.5	3967.2	3922.8	3924.4	4143.3	4562.0
37.5°	5020.4	5052.2	5187.0	5286.9	5115.6	4601.7	4251.1	4100.4	4087.7	4241.6	4631.8
40°	5313.9	5374.2	5543.9	5713.6	5659.7	5117.2	4638.2	4373.3	4346.3	4422.4	4757.1
42.5°	5639.1	5704.1	5929.4	6167.3	6192.7	5740.6	5122.0	4771.4	4725.4	4727.0	4991.9
45°	5988.1	6075.3	6337.0	6679.7	6833.5	6435.4	5718.4	5309.1	5263.1	5194.9	5369.4
47.5°	6446.5	6522.6	6774.8	7169.8	7464.8	7180.9	6500.4	6000.7	5916.7	5816.7	5956.3
50°	6841.4	6908.1	7125.4	7620.3	8234.2	8142.2	7387.1	6865.2	6784.3	6614.6	6730.4
52.5°	6928.7	6981.0	7180.9	7737.7	8822.7	9355.6	8473.7	7910.6	7853.5	7539.4	7583.8
55°	6536.9	6616.2	6795.4	7414.1	8976.5	10542.1	9883.9	9089.2	8970.2	8468.9	8548.2
57.5°	5547.1	5688.3	5856.4	6660.6	8559.3	11173.5	11854.0	10337.5	10229.7	9363.6	9365.2
60°	4065.5	4179.7	4292.4	5028.4	7569.5	11130.6	13641.7	11739.8	11543.1	10094.8	10067.9
62.5°	2956.7	3015.4	3013.9	3275.6	5198.1	10397.8	14580.7	13852.6	13394.2	10876.8	10723.0
65°	2325.4	2323.8	2392.0	2477.7	2902.8	8026.4	14696.5	16937.9	16443.0	11925.3	11604.9
67.5°	1809.9	1844.8	1913.0	2165.2	2181.1	4200.4	13678.1	18846.1	18836.6	13525.9	12637.6
70°	1395.9	1443.5	1540.2	1908.2	2014.5	2350.8	10234.4	18241.8	18395.6	14241.3	11906.3
72.5°	896.2	893.1	1035.8	1541.8	1935.2	1959.0	5659.7	14490.3	14664.8	12899.3	9626.9
75°	501.3	504.4	585.3	943.8	1803.6	1843.2	2802.9	10332.8	10470.8	10056.8	7396.6
77.5°	196.7	203.0	274.4	496.5	1189.7	1646.5	1665.6	7046.1	7066.7	6232.3	4536.6
80°	79.3	84.1	139.6	307.7	724.9	1108.8	1189.7	4151.2	4067.1	2412.7	1319.8
82.5°	23.8	25.4	55.5	174.5	379.1	788.4	802.6	1592.6	1503.8	518.7	336.3
85°	1.6	1.6	12.7	53.9	134.8	198.3	534.6	518.7	460.0	130.1	149.1
87.5°	0.0	0.0	1.6	1.6	3.2	6.3	57.1	95.2	96.8	23.8	66.6
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°	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3
2.5°	4268.6	4211.5	4206.7	4162.3	4117.9	4062.4	3997.3	3949.7	3916.4	3857.7	3846.6
5°	4262.2	4186.1	4114.7	3987.8	3846.6	3694.4	3561.1	3437.4	3359.7	3307.3	3285.1
7.5°	4249.5	4152.8	3987.8	3748.3	3511.9	3245.4	3037.6	2847.3	2717.2	2641.1	2607.8
10°	4240.0	4109.9	3841.9	3478.6	3112.2	2744.2	2428.5	2146.2	1989.1	1865.4	1844.8
12.5°	4221.0	4048.1	3654.7	3163.0	2690.3	2201.7	1798.8	1453.0	1213.5	1105.6	1067.5
15°	4201.9	3983.0	3467.5	2829.9	2230.3	1627.5	1138.9	805.8	640.8	590.1	586.9
17.5°	4198.8	3924.4	3264.5	2514.2	1748.0	1066.0	648.8	521.9	487.0	474.3	474.3
20°	4208.3	3875.2	3064.6	2150.9	1273.8	648.8	483.8	452.1	431.5	420.4	420.4
22.5°	4217.8	3824.4	2872.7	1784.5	845.5	474.3	426.7	399.7	375.9	363.2	356.9
25°	4224.2	3768.9	2660.1	1416.5	552.0	412.4	374.4	339.5	310.9	295.0	295.0
27.5°	4222.6	3702.3	2446.0	1056.4	428.3	366.4	320.4	283.9	255.4	237.9	239.5
30°	4209.9	3629.3	2223.9	737.6	374.4	320.4	274.4	236.3	207.8	193.5	191.9
32.5°	4200.4	3551.6	1966.9	518.7	336.3	280.8	233.2	196.7	172.9	161.8	160.2
35°	4189.3	3475.5	1722.7	395.0	303.0	242.7	196.7	166.6	147.5	138.0	138.0
37.5°	4192.4	3396.1	1457.8	339.5	269.7	211.0	168.1	142.8	126.9	117.4	115.8
40°	4241.6	3348.6	1197.6	307.7	239.5	182.4	145.9	123.7	107.9	98.3	96.8
42.5°	4363.7	3350.1	948.6	283.9	212.6	155.5	126.9	106.3	92.0	80.9	79.3
45°	4608.0	3416.8	728.1	258.6	184.0	134.8	109.5	90.4	76.1	66.6	65.0
47.5°	5007.8	3615.0	552.0	236.3	160.2	117.4	93.6	76.1	63.4	55.5	53.9
50°	5643.8	3973.5	434.6	209.4	134.8	101.5	79.3	63.4	52.3	44.4	42.8
52.5°	6408.4	4511.3	372.8	185.6	115.8	88.8	68.2	52.3	42.8	36.5	34.9
55°	7287.2	5153.7	344.2	161.8	98.3	76.1	55.5	42.8	34.9	30.1	27.0
57.5°	8093.0	5732.7	342.6	138.0	84.1	65.0	46.0	36.5	30.1	23.8	22.2
60°	8878.2	6216.5	322.0	114.2	73.0	53.9	39.7	30.1	25.4	20.6	19.0
62.5°	9590.4	6609.9	269.7	92.0	61.9	44.4	33.3	27.0	22.2	17.4	17.4
65°	10485.0	7111.1	206.2	74.6	50.8	36.5	28.6	23.8	20.6	15.9	15.9
67.5°	11409.8	7376.0	147.5	61.9	41.2	31.7	25.4	22.2	17.4	14.3	14.3
70°	10334.3	6232.3	106.3	50.8	34.9	27.0	22.2	20.6	17.4	14.3	12.7
72.5°	8070.8	4493.8	79.3	39.7	30.1	25.4	20.6	19.0	15.9	12.7	12.7
75°	5984.9	2620.5	60.3	31.7	23.8	20.6	20.6	19.0	15.9	12.7	11.1
77.5°	3253.4	913.7	46.0	25.4	19.0	15.9	17.4	17.4	14.3	11.1	9.5
80°	861.3	250.6	31.7	19.0	15.9	12.7	12.7	15.9	12.7	9.5	9.5
82.5°	250.6	73.0	22.2	15.9	12.7	11.1	11.1	11.1	9.5	7.9	6.3
85°	122.1	27.0	15.9	12.7	11.1	9.5	7.9	7.9	6.3	4.8	4.8
87.5°	53.9	11.1	12.7	11.1	11.1	7.9	6.3	4.8	4.8	3.2	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)