

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: P640004

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18556.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

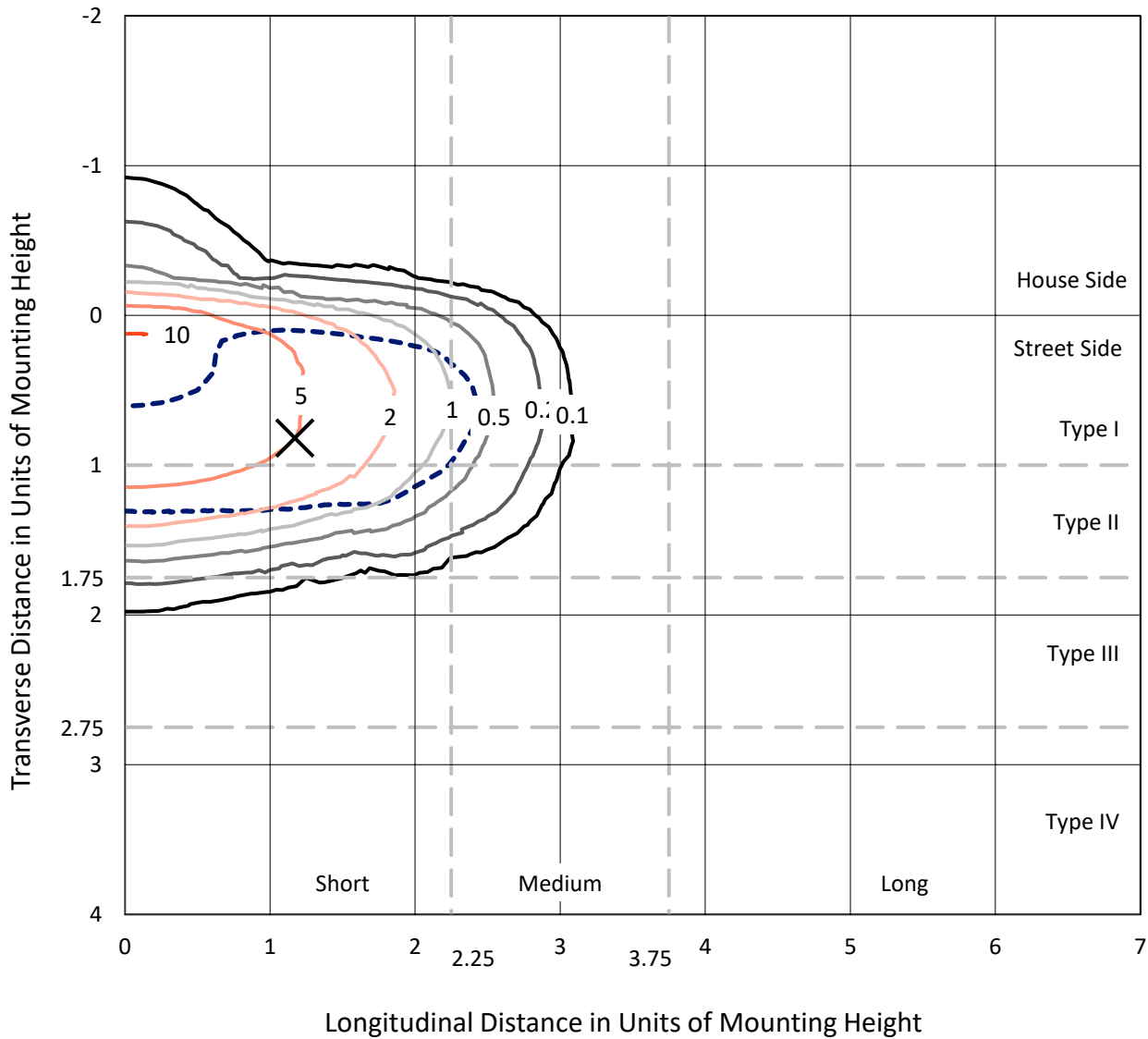
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

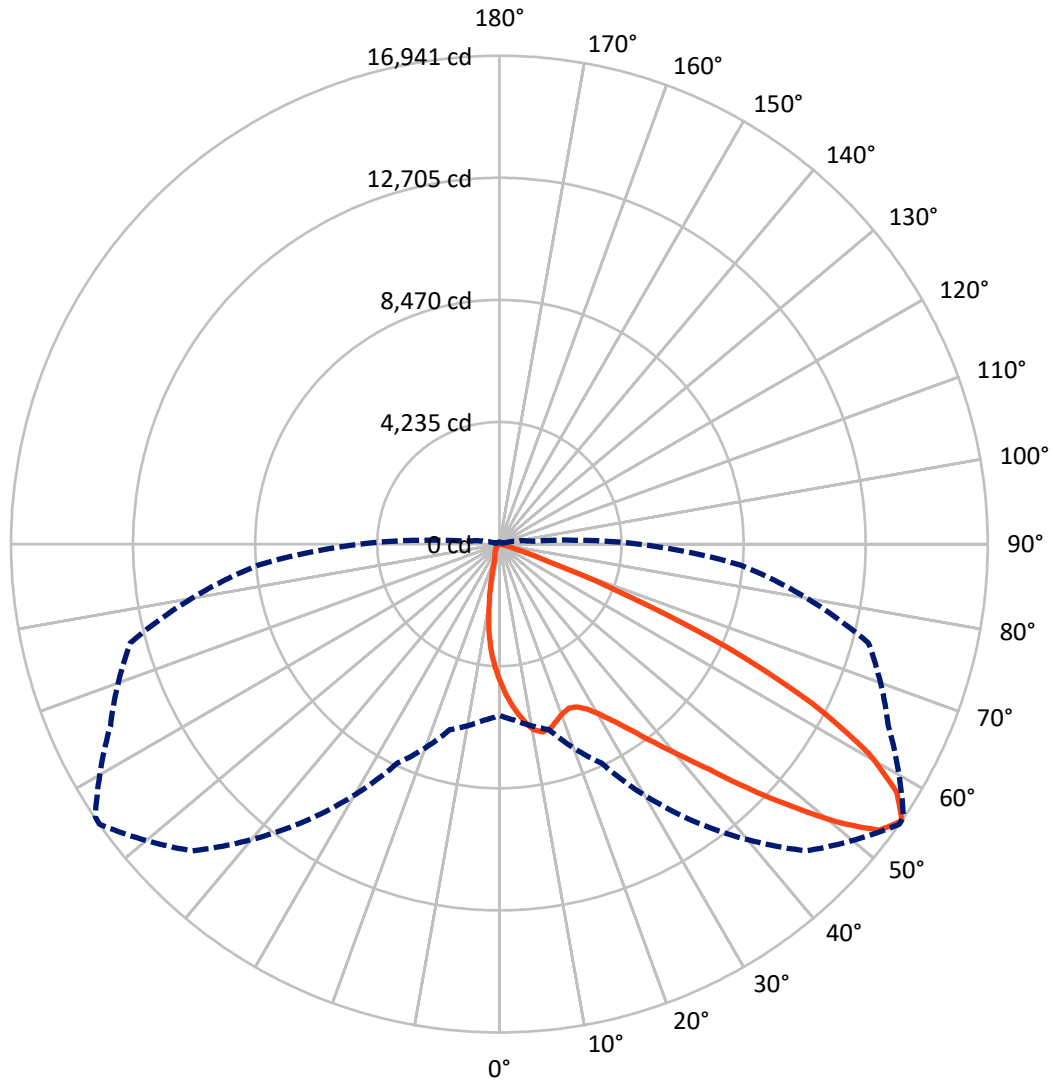
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.0	0.0	1145.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17411.5	0.0	17411.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	18556.5	0.0	18556.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	2.3
10°-20°	1021.4	5.5
20°-30°	1701.0	9.2
30°-40°	2898.7	15.6
40°-50°	4731.7	25.5
50°-60°	4953.8	26.7
60°-70°	2498.6	13.5
70°-80°	315.6	1.7
80°-90°	12.0	0.1
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°	18556.5	100.0
0°-180°	18556.5	100.0

Coefficient of Utilization



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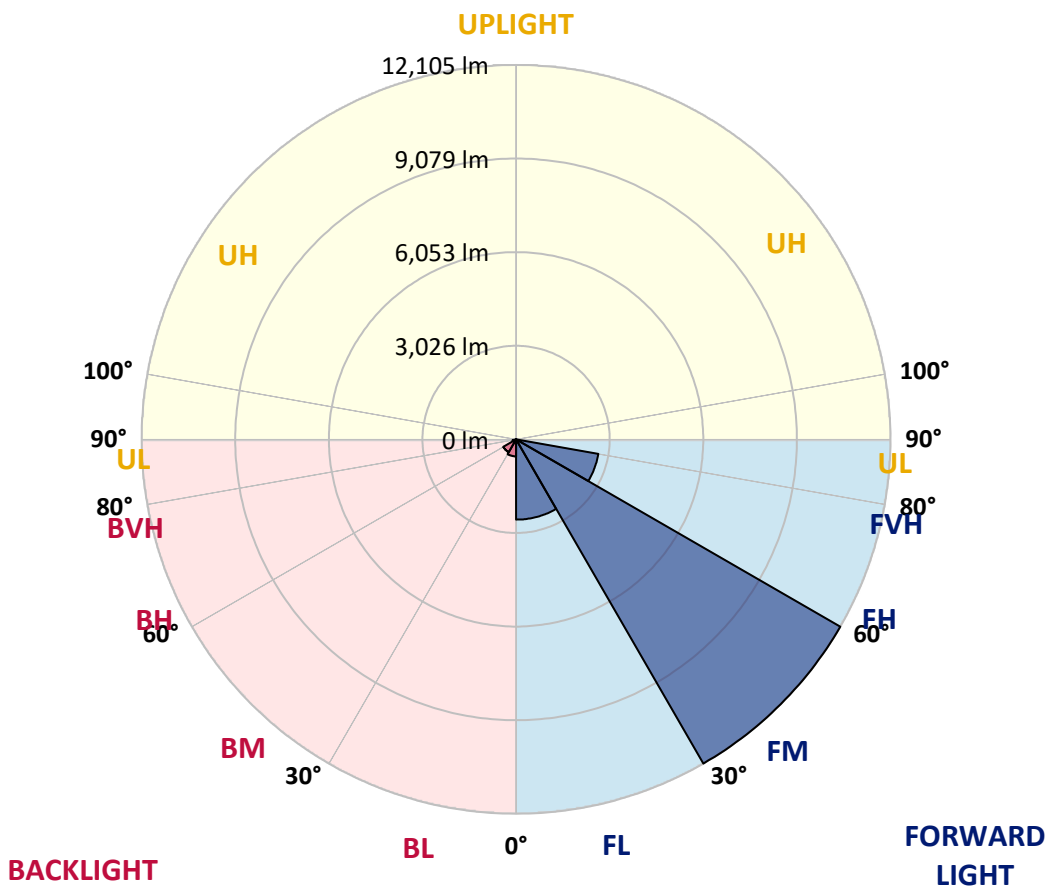
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2595.8	14.0			
FM (30°-60°)	12105.4	65.2			
FH (60°-80°)	2699.4	14.5			G2/5000
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	550.3	3.0	B2/1000		
BM (30°-60°)	478.7	2.6	B1/1000		
BH (60°-80°)	114.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9
2.5°	5588.7	5561.7	5602.9	5555.4	5474.5	5406.2	5317.4	5285.7	5142.9	5008.1	4878.0
5°	6267.6	6275.6	6262.9	6196.2	6082.0	5955.1	5775.9	5736.2	5487.1	5230.2	4952.5
7.5°	6435.8	6431.0	6458.0	6483.4	6464.3	6400.9	6205.8	6166.1	5856.8	5471.3	5066.8
10°	5917.0	5920.2	5975.7	6147.1	6359.6	6580.1	6550.0	6527.8	6224.8	5744.1	5193.7
12.5°	5184.2	5212.7	5271.4	5515.7	5875.8	6377.1	6688.0	6710.2	6562.7	6043.9	5342.8
15°	4866.9	4873.2	4920.8	5068.3	5336.4	5955.1	6629.3	6691.2	6845.0	6345.4	5504.6
17.5°	4859.0	4866.9	4887.5	4952.5	5127.0	5623.6	6440.5	6548.4	7057.6	6669.0	5698.1
20°	5157.2	5152.4	5138.1	5103.2	5179.4	5514.1	6266.0	6385.0	7173.4	6984.6	5893.2
22.5°	5698.1	5691.8	5628.3	5484.0	5422.1	5614.0	6180.4	6288.2	7243.2	7265.4	6053.5
25°	6321.6	6366.0	6247.0	6028.1	5875.8	5869.4	6256.5	6332.7	7303.5	7514.5	6162.9
27.5°	7005.3	7019.5	6918.0	6672.1	6451.6	6278.7	6477.0	6534.1	7370.1	7736.6	6224.8
30°	7755.6	7750.8	7635.0	7349.5	7081.4	6832.4	6848.2	6870.4	7525.6	7990.4	6293.0
32.5°	8693.1	8713.8	8507.5	8118.9	7796.9	7452.6	7333.6	7336.8	7806.4	8317.2	6396.1
35°	9967.0	9916.2	9643.3	9089.7	8540.8	8169.6	7966.6	7949.1	8239.4	8756.6	6575.4
37.5°	11180.5	11185.3	10899.7	10290.6	9597.3	9012.0	8724.9	8677.3	8848.6	9365.7	6873.6
40°	12022.9	12038.7	11919.7	11600.9	10866.4	10038.3	9616.4	9567.2	9638.6	10136.7	7263.8
42.5°	12468.6	12513.0	12546.3	12620.9	12064.1	11320.1	10671.3	10666.5	10592.0	11015.5	7715.9
45°	12486.1	12552.7	12755.7	13265.0	13328.4	12782.7	12076.8	11970.5	11683.4	11956.2	8120.5
47.5°	11796.0	11949.9	12381.4	13390.3	14056.5	14237.4	13537.8	13472.8	12666.9	12700.2	8423.5
50°	10187.5	10347.7	11142.4	12747.8	14240.6	15392.2	15141.6	15006.8	13488.6	13192.0	8569.4
52.5°	8537.7	8683.6	9223.0	11218.6	13477.5	15755.5	16493.2	16332.9	14226.3	13363.3	8509.1
55°	5940.8	6136.0	6662.6	8385.4	11719.9	15048.0	16940.5	16907.2	14884.6	13255.4	8415.5
57.5°	2912.5	3106.0	3631.1	5169.9	8682.0	13138.0	16256.8	16432.9	15278.0	13139.6	8339.4
60°	1216.7	1296.0	1476.9	2268.5	4857.4	9928.9	14713.3	14957.6	15036.9	12982.6	8331.4
62.5°	705.9	718.6	737.6	940.7	1889.3	5691.8	12205.3	12552.7	13769.4	12774.8	8206.1
65°	533.0	537.8	529.8	577.4	780.5	2159.0	8818.5	9291.2	11493.0	11962.6	7711.2
67.5°	437.8	437.8	417.2	426.7	490.2	809.0	4868.5	5528.4	8504.4	9832.1	6367.6
70°	349.0	356.9	347.4	334.7	350.6	447.3	1732.3	2147.9	4952.5	5806.0	3713.6
72.5°	264.9	264.9	280.8	271.3	260.2	280.8	604.4	679.0	1987.7	2420.8	1340.5
75°	204.6	211.0	222.1	212.6	196.7	166.6	290.3	307.7	599.6	563.1	299.8
77.5°	104.7	106.3	141.2	155.5	145.9	101.5	126.9	139.6	195.1	174.5	111.0
80°	63.5	66.6	79.3	122.1	96.8	53.9	52.3	55.5	92.0	79.3	46.0
82.5°	27.0	28.6	44.4	44.4	39.7	20.6	20.6	20.6	44.4	41.2	19.0
85°	0.0	0.0	7.9	6.3	6.3	7.9	7.9	7.9	11.1	15.9	9.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8
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°	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9	4793.9
2.5°	4793.9	4692.4	4556.0	4432.2	4265.7	4172.1	4042.0	3935.7	3845.3	3816.7	3804.0
5°	4795.5	4621.0	4329.1	4037.2	3678.7	3396.3	3106.0	2876.0	2687.3	2627.0	2611.1
7.5°	4827.2	4570.2	4097.5	3567.7	2968.0	2473.1	2030.5	1633.9	1449.9	1388.0	1375.4
10°	4870.1	4527.4	3829.4	3004.5	2143.1	1507.0	1067.6	813.8	693.2	626.6	636.1
12.5°	4925.6	4492.5	3532.8	2395.4	1418.2	828.1	586.9	491.8	466.4	453.7	447.3
15°	5000.1	4451.3	3164.7	1791.0	869.3	533.0	452.1	426.7	417.2	410.9	409.3
17.5°	5076.3	4403.7	2790.4	1259.6	577.4	442.6	406.1	393.4	387.1	382.3	380.7
20°	5157.2	4322.8	2351.0	867.7	455.3	398.2	374.4	360.1	352.2	344.2	342.6
22.5°	5192.1	4192.7	1930.6	607.6	404.5	366.4	336.3	318.9	309.3	303.0	303.0
25°	5158.8	3981.7	1495.9	461.6	368.0	331.5	301.4	282.4	274.4	268.1	268.1
27.5°	5069.9	3710.4	1091.4	382.3	328.4	295.1	266.5	249.1	242.7	239.5	239.5
30°	4971.6	3367.8	769.4	328.4	284.0	257.0	233.2	222.1	220.5	217.3	217.3
32.5°	4887.5	3047.4	529.8	288.7	250.6	223.7	207.8	203.1	204.6	201.5	203.1
35°	4841.5	2733.3	393.4	257.0	223.7	198.3	190.4	190.4	190.4	188.8	188.8
37.5°	4860.5	2423.9	320.4	234.8	199.9	180.8	172.9	176.1	179.3	179.3	179.3
40°	4955.7	2149.5	284.0	214.2	179.3	165.0	158.6	163.4	168.2	171.3	171.3
42.5°	5076.3	1927.4	257.0	196.7	165.0	149.1	145.9	150.7	155.5	158.6	158.6
45°	5152.4	1703.7	230.0	174.5	150.7	131.7	131.7	138.0	136.4	138.0	138.0
47.5°	5187.3	1526.1	203.1	150.7	128.5	114.2	115.8	119.0	115.8	119.0	119.0
50°	5101.7	1346.8	179.3	125.3	106.3	99.9	103.1	101.5	101.5	107.9	107.9
52.5°	4944.6	1213.5	158.6	106.3	90.4	88.8	92.0	85.7	87.2	87.2	85.7
55°	4828.8	1137.4	141.2	92.0	77.7	79.3	77.7	66.6	60.3	53.9	52.3
57.5°	4771.7	1107.3	128.5	82.5	69.8	69.8	63.5	46.0	34.9	27.0	23.8
60°	4759.0	1070.8	115.8	71.4	61.9	58.7	46.0	27.0	17.4	12.7	11.1
62.5°	4638.5	981.9	104.7	57.1	53.9	47.6	28.6	15.9	9.5	6.3	4.8
65°	4243.5	807.4	93.6	44.4	41.2	34.9	17.4	9.5	4.8	1.6	0.0
67.5°	3375.7	572.7	82.5	33.3	28.6	22.2	11.1	6.3	1.6	0.0	0.0
70°	1946.4	309.3	68.2	23.8	19.0	14.3	7.9	3.2	0.0	0.0	0.0
72.5°	650.4	144.4	52.3	15.9	14.3	11.1	4.8	1.6	0.0	0.0	0.0
75°	142.8	85.7	34.9	11.1	9.5	7.9	3.2	0.0	0.0	0.0	0.0
77.5°	53.9	60.3	17.4	7.9	6.3	4.8	1.6	0.0	0.0	0.0	0.0
80°	20.6	39.7	7.9	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	15.9	4.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	7.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	0.0	0.0	0.0	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)