

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: P640034

Luminaire Tested: GWS-SA5D-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

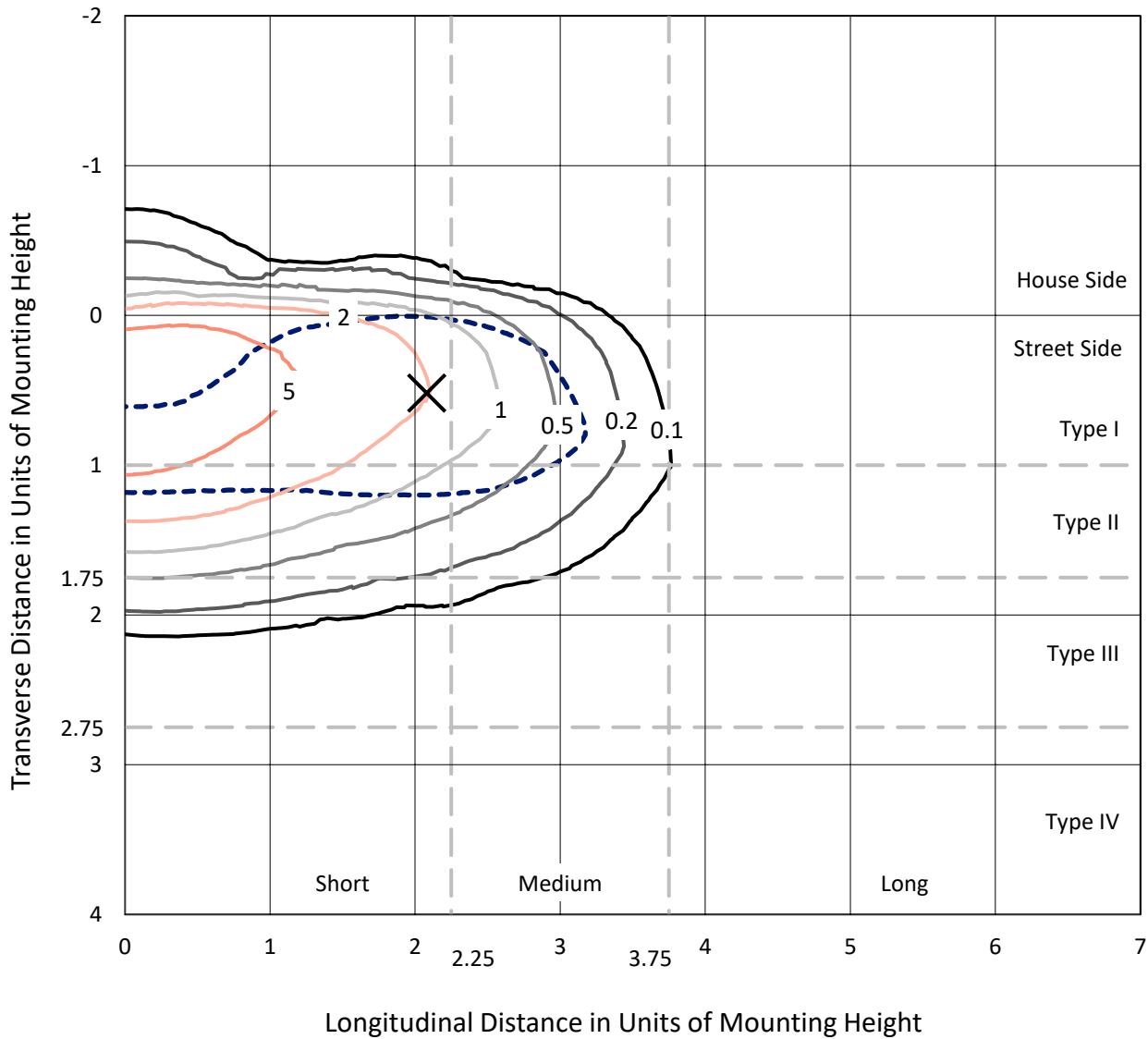
Lumens per Lamp: N/A  
Luminaire Lumens: 17845.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

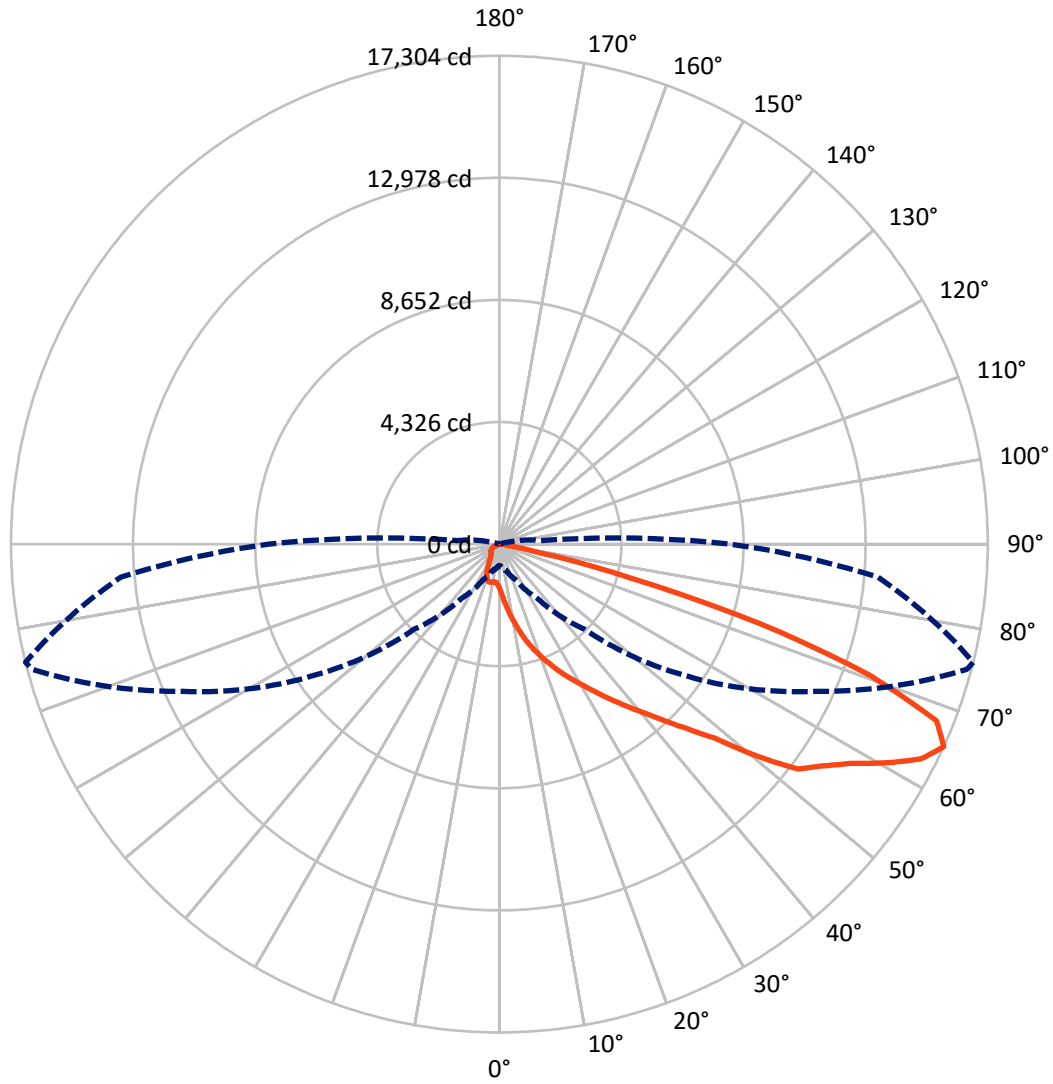
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	986.8	0.0	986.8
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	16859.0	0.0	16859.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	17845.8	0.0	17845.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.2	1.1
10°-20°	729.4	4.1
20°-30°	1488.0	8.3
30°-40°	2646.5	14.8
40°-50°	3912.1	21.9
50°-60°	4479.0	25.1
60°-70°	3417.3	19.1
70°-80°	957.3	5.4
80°-90°	24.1	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°	17845.8	100.0
0°-180°	17845.8	100.0

**Coefficient of Utilization**



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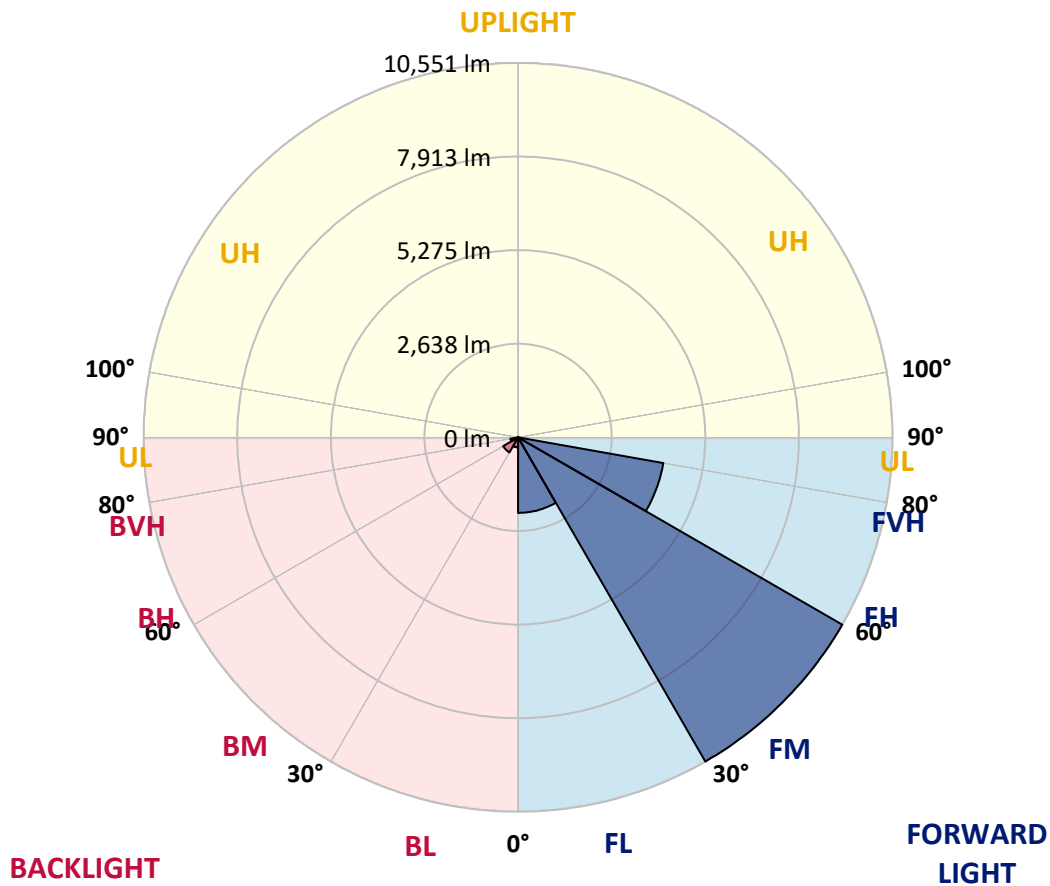
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.0	11.9			
FM (30°-60°)	10550.7	59.1			
FH (60°-80°)	4157.6	23.3			G2/5000
FVH (80°-90°)	22.7	0.1			G1/100
BL (0°-30°)	281.6	1.6	B1/500		
BM (30°-60°)	486.9	2.7	B1/1000		
BH (60°-80°)	216.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0
2.5°	2435.0	2471.5	2443.0	2395.4	2303.4	2214.5	2100.3	1943.3	1818.0	1802.1	1684.7
5°	3288.5	3285.3	3223.5	3161.6	3064.8	2912.5	2682.5	2390.6	2109.8	2086.0	1822.7
7.5°	3796.1	3800.9	3766.0	3718.4	3623.2	3466.2	3226.6	2874.5	2463.6	2416.0	2011.5
10°	4222.9	4221.3	4195.9	4173.7	4088.0	3983.3	3726.3	3339.3	2844.3	2769.8	2222.5
12.5°	4543.3	4554.4	4567.1	4589.3	4552.8	4449.7	4207.0	3785.0	3229.8	3147.3	2463.6
15°	4797.1	4800.3	4847.9	4933.5	4963.7	4909.8	4689.2	4216.5	3610.5	3539.1	2741.2
17.5°	4873.3	4879.6	4960.5	5117.6	5276.2	5306.3	5139.8	4651.2	3984.9	3908.8	3010.9
20°	5033.5	5047.8	5108.0	5246.1	5445.9	5607.7	5542.7	5090.6	4359.3	4259.3	3286.9
22.5°	5537.9	5545.9	5525.3	5542.7	5645.8	5833.0	5872.7	5515.7	4743.2	4636.9	3585.2
25°	6405.7	6408.9	6264.5	6128.1	6050.3	6085.2	6172.5	5907.6	5123.9	5019.2	3862.8
27.5°	7306.7	7317.8	7144.9	6913.3	6635.7	6477.1	6451.7	6266.1	5507.8	5392.0	4137.2
30°	8155.4	8155.4	7973.0	7690.6	7319.4	7010.1	6827.6	6627.8	5918.7	5791.8	4418.0
32.5°	8918.5	8912.1	8678.9	8372.8	8006.3	7666.8	7282.9	7005.3	6375.5	6234.4	4741.6
35°	9548.2	9532.4	9267.5	8974.0	8582.2	8329.9	7901.6	7411.4	6870.5	6729.3	5074.7
37.5°	10024.1	10006.7	9764.0	9453.1	9089.8	8926.4	8567.9	7898.4	7392.4	7263.9	5444.4
40°	10282.7	10247.8	10079.7	9848.1	9543.5	9400.7	9251.6	8502.8	8006.3	7846.1	5880.6
42.5°	10358.9	10317.6	10206.6	10098.7	9914.7	9802.1	9962.3	9185.0	8680.5	8542.5	6378.7
45°	10133.6	10109.8	10100.3	10178.0	10211.3	10243.1	10638.1	9940.1	9424.5	9319.8	7005.3
47.5°	9591.1	9584.7	9668.8	9992.4	10344.6	10679.3	11372.5	10871.3	10389.0	10276.4	7881.0
50°	8588.5	8653.5	8888.3	9456.2	10160.6	10926.8	12059.4	12162.5	11950.0	11785.0	9023.2
52.5°	7021.2	7146.5	7673.2	8536.1	9548.2	10857.0	12376.7	13196.8	13414.2	13242.8	9841.7
55°	5509.4	5626.8	6096.3	7190.9	8540.9	10325.5	12391.0	13553.8	14028.1	13869.5	10395.3
57.5°	4103.9	4211.8	4638.5	5685.5	7170.3	9280.1	12051.5	13752.1	14756.2	14654.7	11269.4
60°	2682.5	2788.8	3174.3	4089.6	5561.7	7757.2	11215.5	13710.8	15747.7	15738.2	12343.4
62.5°	1488.0	1572.1	1851.3	2565.1	3881.8	6007.5	9902.0	13296.8	16707.4	16767.7	13228.6
65°	761.4	815.4	985.1	1410.3	2349.4	4259.3	8174.5	12348.1	17151.6	17303.9	13461.8
67.5°	498.1	515.6	556.8	732.9	1258.0	2679.3	6151.9	10826.8	16526.6	16704.3	12679.7
70°	404.5	418.8	442.6	488.6	648.8	1423.0	4040.4	8647.2	13809.2	13929.7	10097.1
72.5°	296.6	315.7	361.7	391.8	468.0	780.5	2101.9	5676.0	9483.2	9695.8	6345.4
75°	218.9	230.0	268.1	309.3	382.3	493.4	804.3	2983.9	4897.1	4773.3	2665.1
77.5°	131.7	139.6	171.3	198.3	272.9	307.8	280.8	1102.5	1489.6	1400.7	644.1
80°	65.0	73.0	112.6	149.1	174.5	123.7	117.4	307.8	331.5	331.5	161.8
82.5°	22.2	28.6	60.3	98.4	85.7	47.6	55.5	79.3	88.8	93.6	47.6
85°	0.0	0.0	14.3	28.6	12.7	6.3	14.3	17.4	22.2	23.8	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.3	6.3
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°	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0
2.5°	1621.2	1546.7	1434.1	1332.5	1254.8	1181.8	1126.3	1081.9	1074.0	1048.6	1051.7
5°	1694.2	1559.4	1351.6	1191.3	1078.7	1002.6	939.1	891.5	870.9	850.3	834.4
7.5°	1806.9	1611.7	1319.8	1124.7	993.1	875.7	777.3	698.0	659.9	636.1	620.3
10°	1944.9	1684.7	1321.4	1085.1	889.9	710.7	575.8	488.6	447.4	434.7	433.1
12.5°	2109.8	1776.7	1334.1	1020.0	740.8	528.3	426.7	387.1	374.4	363.3	363.3
15°	2284.3	1879.8	1334.1	901.0	564.7	412.5	369.6	344.2	328.4	322.0	318.9
17.5°	2468.4	1976.6	1302.4	737.7	433.1	363.3	328.4	304.6	291.9	282.4	279.2
20°	2665.1	2068.6	1223.1	564.7	371.2	325.2	291.9	268.1	255.4	245.9	245.9
22.5°	2864.9	2154.3	1094.6	434.7	328.4	288.7	257.0	234.8	222.1	212.6	212.6
25°	3050.6	2211.4	929.6	358.5	296.6	257.0	228.4	206.2	191.9	185.6	182.4
27.5°	3223.5	2247.9	747.2	315.7	266.5	230.0	199.9	179.3	168.2	163.4	160.2
30°	3402.7	2257.4	571.1	287.1	241.1	203.1	174.5	158.6	149.1	142.8	142.8
32.5°	3577.2	2246.3	436.2	263.3	218.9	179.3	155.5	141.2	133.3	128.5	126.9
35°	3754.9	2195.5	353.8	242.7	196.7	157.0	138.0	126.9	122.1	115.8	115.8
37.5°	3948.4	2127.3	307.8	222.1	174.5	141.2	123.7	115.8	109.5	104.7	103.1
40°	4189.5	2048.0	282.4	204.6	153.9	126.9	111.0	103.1	98.4	93.6	92.0
42.5°	4475.1	1970.2	269.7	185.6	138.0	112.6	99.9	90.4	85.7	79.3	77.7
45°	4879.6	1952.8	255.4	165.0	123.7	101.5	87.2	77.7	71.4	66.6	65.0
47.5°	5530.0	2002.0	231.6	142.8	109.5	88.8	74.6	66.6	58.7	53.9	50.8
50°	6175.7	1989.3	207.8	123.7	96.8	76.1	63.5	55.5	47.6	42.8	41.2
52.5°	6527.8	1929.0	185.6	109.5	84.1	65.0	53.9	44.4	39.7	34.9	33.3
55°	6846.7	1905.2	163.4	95.2	71.4	57.1	44.4	36.5	33.3	28.6	27.0
57.5°	7471.7	1960.7	144.4	82.5	61.9	49.2	38.1	30.1	27.0	22.2	20.6
60°	8125.3	1967.1	123.7	71.4	53.9	41.2	30.1	23.8	20.6	15.9	14.3
62.5°	8466.3	1806.9	101.5	60.3	44.4	34.9	25.4	19.0	15.9	9.5	9.5
65°	8180.8	1461.0	85.7	49.2	34.9	27.0	19.0	14.3	9.5	4.8	1.6
67.5°	7240.1	1039.1	71.4	39.7	25.4	19.0	14.3	9.5	1.6	0.0	0.0
70°	5301.6	593.3	55.5	28.6	19.0	12.7	9.5	4.8	0.0	0.0	0.0
72.5°	3258.4	317.3	41.2	19.0	14.3	9.5	7.9	3.2	0.0	0.0	0.0
75°	1235.8	152.3	25.4	12.7	11.1	7.9	4.8	1.6	0.0	0.0	0.0
77.5°	334.7	74.6	14.3	9.5	7.9	4.8	3.2	0.0	0.0	0.0	0.0
80°	87.2	34.9	9.5	6.3	4.8	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.1	15.9	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.7	6.3	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.6	1.6	1.6	1.6	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)