

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: P638054

Luminaire Tested: GWS-SA4E-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638054  
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-SA4E-722-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

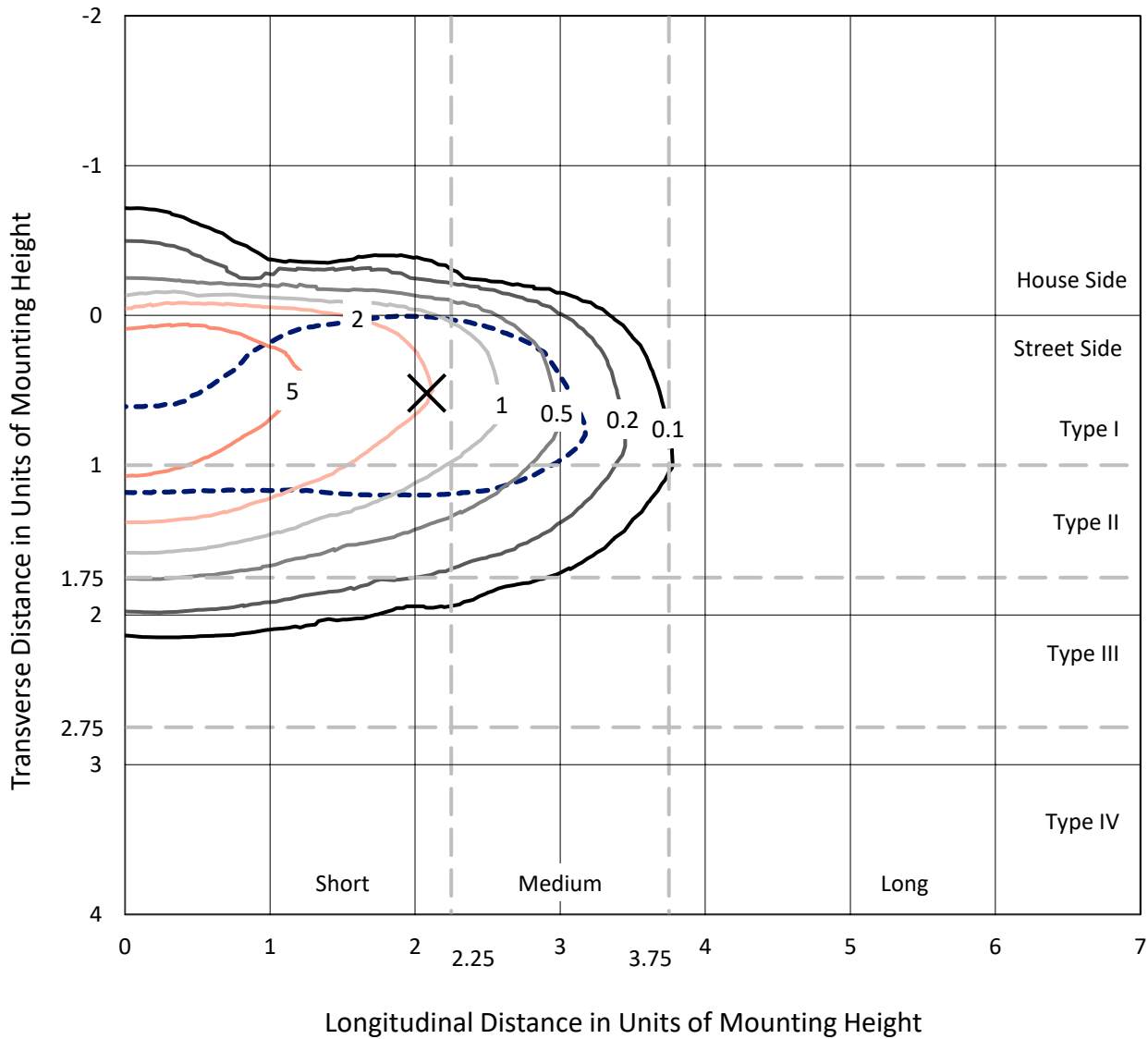
Lumens per Lamp: N/A  
Luminaire Lumens: 18179.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

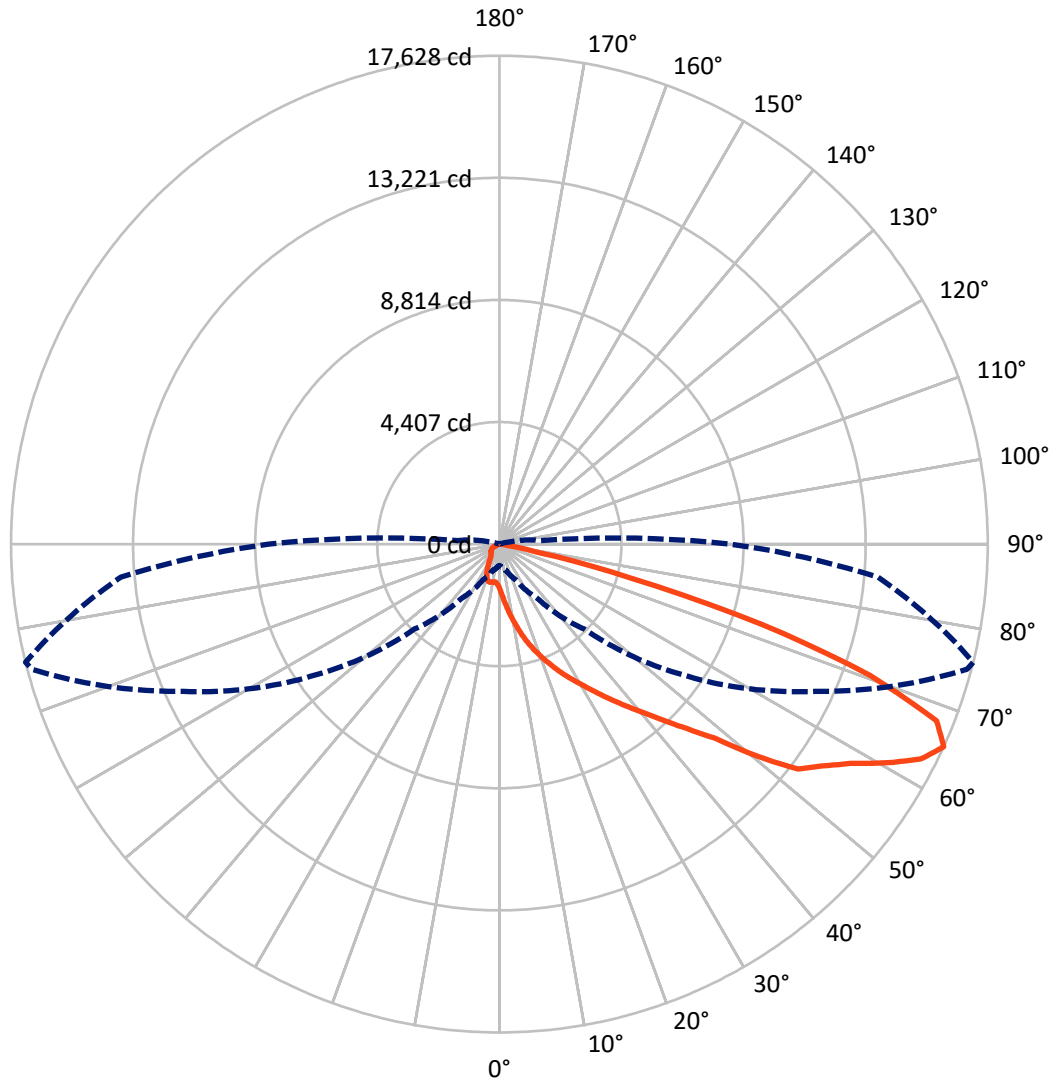
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	1005.2	0.0	1005.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	17174.3	0.0	17174.3
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	18179.5	0.0	18179.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	1.1
10°-20°	743.0	4.1
20°-30°	1515.8	8.3
30°-40°	2695.9	14.8
40°-50°	3985.2	21.9
50°-60°	4562.8	25.1
60°-70°	3481.2	19.1
70°-80°	975.2	5.4
80°-90°	24.5	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°	18179.5	100.0
0°-180°	18179.5	100.0

**Coefficient of Utilization**



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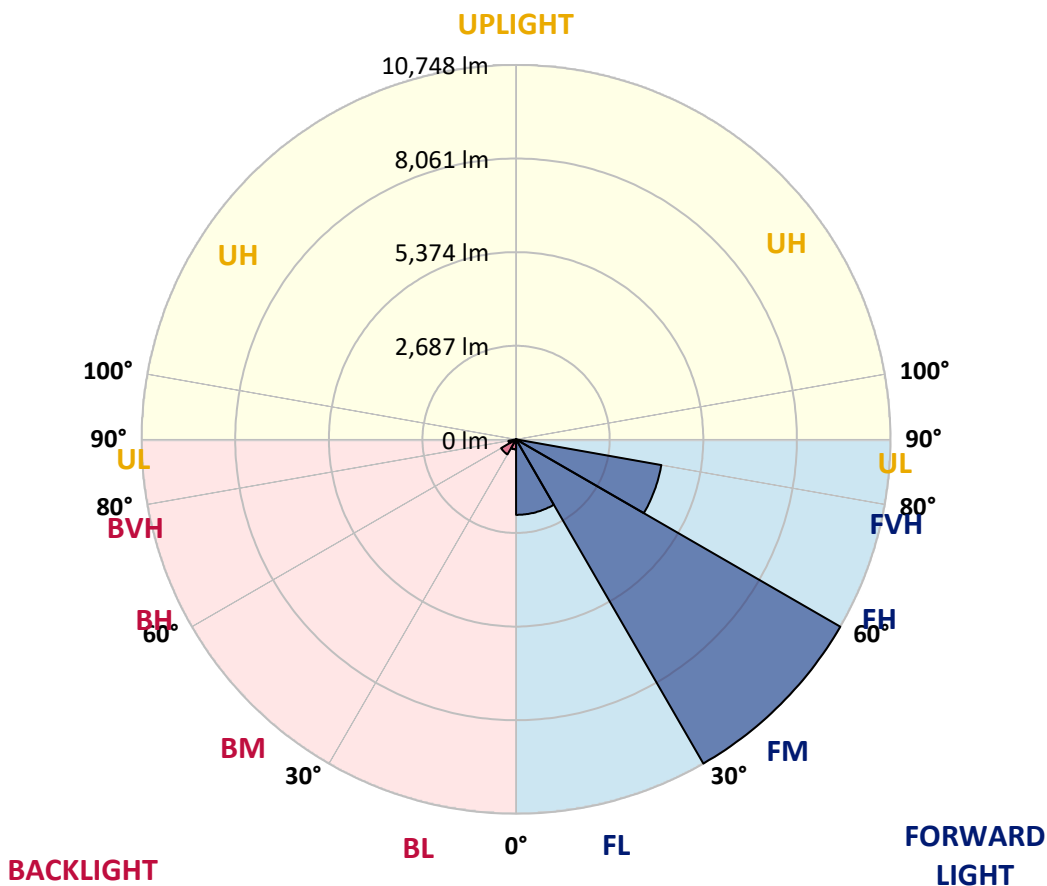
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.8	11.9			
FM (30°-60°)	10748.0	59.1			
FH (60°-80°)	4235.4	23.3			G2/5000
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	286.8	1.6	B1/500		
BM (30°-60°)	496.0	2.7	B1/1000		
BH (60°-80°)	221.0	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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	2480.6	2517.7	2488.7	2440.2	2346.5	2256.0	2139.6	1979.6	1852.0	1835.8	1716.2
5°	3350.0	3346.8	3283.7	3220.7	3122.1	2967.0	2732.7	2435.3	2149.3	2125.1	1856.8
7.5°	3867.1	3872.0	3836.4	3787.9	3691.0	3531.0	3287.0	2928.2	2509.7	2461.2	2049.1
10°	4301.8	4300.2	4274.4	4251.7	4164.5	4057.8	3796.0	3401.7	2897.5	2821.6	2264.0
12.5°	4628.3	4639.6	4652.5	4675.1	4638.0	4532.9	4285.7	3855.8	3290.2	3206.2	2509.7
15°	4886.8	4890.1	4938.5	5025.8	5056.5	5001.6	4776.9	4295.4	3678.0	3605.3	2792.5
17.5°	4964.4	4970.9	5053.3	5213.3	5374.9	5405.6	5235.9	4738.1	4059.4	3981.9	3067.2
20°	5127.6	5142.2	5203.6	5344.2	5547.8	5712.6	5646.3	5185.8	4440.8	4339.0	3348.4
22.5°	5641.5	5649.6	5628.6	5646.3	5751.4	5942.1	5982.5	5618.9	4831.9	4723.6	3652.2
25°	6525.5	6528.7	6381.6	6242.7	6163.5	6199.0	6287.9	6018.0	5219.7	5113.1	3935.0
27.5°	7443.4	7454.7	7278.5	7042.6	6759.8	6598.2	6572.3	6383.3	5610.8	5492.8	4214.6
30°	8307.9	8307.9	8122.1	7834.4	7456.3	7141.2	6955.3	6751.7	6029.3	5900.1	4500.6
32.5°	9085.2	9078.8	8841.2	8529.3	8156.0	7810.2	7419.1	7136.3	6494.8	6350.9	4830.3
35°	9726.8	9710.6	9440.7	9141.8	8742.6	8485.7	8049.4	7550.0	6999.0	6855.1	5169.6
37.5°	10211.6	10193.8	9946.6	9629.8	9259.8	9093.3	8728.1	8046.1	7530.6	7399.7	5546.2
40°	10475.0	10439.4	10268.1	10032.2	9721.9	9576.5	9424.6	8661.8	8156.0	7992.8	5990.6
42.5°	10552.6	10510.5	10397.4	10287.5	10100.1	9985.3	10148.6	9356.7	8842.8	8702.2	6498.0
45°	10323.1	10298.9	10289.2	10368.3	10402.3	10434.6	10837.0	10125.9	9600.7	9494.1	7136.3
47.5°	9770.4	9763.9	9849.6	10179.3	10538.0	10879.0	11585.2	11074.5	10583.3	10468.5	8028.4
50°	8749.1	8815.4	9054.5	9633.1	10350.6	11131.1	12284.9	12390.0	12173.4	12005.4	9191.9
52.5°	7152.5	7280.1	7816.7	8695.8	9726.8	11060.0	12608.1	13443.6	13665.0	13490.5	10025.7
55°	5612.4	5732.0	6210.3	7325.4	8700.6	10518.6	12622.7	13807.2	14290.4	14128.8	10589.7
57.5°	4180.6	4290.5	4725.2	5791.8	7304.4	9453.7	12276.8	14009.2	15032.2	14928.7	11480.2
60°	2732.7	2841.0	3233.6	4166.1	5665.7	7902.3	11425.2	13967.2	16042.2	16032.5	12574.2
62.5°	1515.8	1601.5	1885.9	2613.1	3954.4	6119.8	10087.2	13545.4	17019.8	17081.3	13475.9
65°	775.7	830.6	1003.5	1436.6	2393.3	4339.0	8327.3	12579.0	17472.3	17627.5	13713.5
67.5°	507.4	525.2	567.2	746.6	1281.5	2729.4	6266.9	11029.3	16835.6	17016.6	12916.8
70°	412.1	426.6	450.9	497.7	660.9	1449.6	4116.0	8808.9	14067.4	14190.2	10285.9
72.5°	302.2	321.6	368.5	399.2	476.7	795.1	2141.2	5782.1	9660.5	9877.1	6464.1
75°	223.0	234.3	273.1	315.1	389.5	502.6	819.3	3039.7	4988.6	4862.6	2714.9
77.5°	134.1	142.2	174.5	202.0	278.0	313.5	286.0	1123.1	1517.4	1426.9	656.1
80°	66.3	74.3	114.7	151.9	177.8	126.0	119.6	313.5	337.7	337.7	164.8
82.5°	22.6	29.1	61.4	100.2	87.3	48.5	56.6	80.8	90.5	95.3	48.5
85°	0.0	0.0	14.5	29.1	12.9	6.5	14.5	17.8	22.6	24.2	16.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.5	6.5
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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1651.6	1575.6	1460.9	1357.5	1278.3	1203.9	1147.4	1102.1	1094.0	1068.2	1071.4
5°	1725.9	1588.5	1376.8	1213.6	1098.9	1021.3	956.7	908.2	887.2	866.2	850.0
7.5°	1840.6	1641.9	1344.5	1145.8	1011.6	892.0	791.8	711.0	672.3	648.0	631.9
10°	1981.2	1716.2	1346.1	1105.4	906.6	724.0	586.6	497.7	455.7	442.8	441.2
12.5°	2149.3	1809.9	1359.1	1039.1	754.7	538.1	434.7	394.3	381.4	370.1	370.1
15°	2327.1	1915.0	1359.1	917.9	575.3	420.2	376.5	350.7	334.5	328.1	324.8
17.5°	2514.5	2013.6	1326.7	751.4	441.2	370.1	334.5	310.3	297.3	287.7	284.4
20°	2714.9	2107.3	1245.9	575.3	378.1	331.3	297.3	273.1	260.2	250.5	250.5
22.5°	2918.5	2194.5	1115.0	442.8	334.5	294.1	261.8	239.2	226.2	216.5	216.5
25°	3107.6	2252.7	947.0	365.2	302.2	261.8	232.7	210.1	195.5	189.1	185.8
27.5°	3283.7	2289.9	761.1	321.6	271.5	234.3	203.6	182.6	171.3	166.4	163.2
30°	3466.3	2299.6	581.8	292.5	245.6	206.8	177.8	161.6	151.9	145.4	145.4
32.5°	3644.1	2288.3	444.4	268.3	223.0	182.6	158.4	143.8	135.7	130.9	129.3
35°	3825.1	2236.6	360.4	247.2	200.4	160.0	140.6	129.3	124.4	118.0	118.0
37.5°	4022.3	2167.1	313.5	226.2	177.8	143.8	126.0	118.0	111.5	106.7	105.0
40°	4267.9	2086.3	287.7	208.5	156.8	129.3	113.1	105.0	100.2	95.3	93.7
42.5°	4558.8	2007.1	274.7	189.1	140.6	114.7	101.8	92.1	87.3	80.8	79.2
45°	4970.9	1989.3	260.2	168.1	126.0	103.4	88.9	79.2	72.7	67.9	66.3
47.5°	5633.4	2039.4	235.9	145.4	111.5	90.5	76.0	67.9	59.8	54.9	51.7
50°	6291.1	2026.5	211.7	126.0	98.6	77.6	64.6	56.6	48.5	43.6	42.0
52.5°	6649.9	1965.1	189.1	111.5	85.6	66.3	54.9	45.2	40.4	35.6	33.9
55°	6974.7	1940.8	166.4	97.0	72.7	58.2	45.2	37.2	33.9	29.1	27.5
57.5°	7611.4	1997.4	147.1	84.0	63.0	50.1	38.8	30.7	27.5	22.6	21.0
60°	8277.2	2003.9	126.0	72.7	54.9	42.0	30.7	24.2	21.0	16.2	14.5
62.5°	8624.7	1840.6	103.4	61.4	45.2	35.6	25.9	19.4	16.2	9.7	9.7
65°	8333.8	1488.3	87.3	50.1	35.6	27.5	19.4	14.5	9.7	4.8	1.6
67.5°	7375.5	1058.5	72.7	40.4	25.9	19.4	14.5	9.7	1.6	0.0	0.0
70°	5400.7	604.4	56.6	29.1	19.4	12.9	9.7	4.8	0.0	0.0	0.0
72.5°	3319.3	323.2	42.0	19.4	14.5	9.7	8.1	3.2	0.0	0.0	0.0
75°	1258.9	155.1	25.9	12.9	11.3	8.1	4.8	1.6	0.0	0.0	0.0
77.5°	341.0	76.0	14.5	9.7	8.1	4.8	3.2	0.0	0.0	0.0	0.0
80°	88.9	35.6	9.7	6.5	4.8	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	16.2	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.5	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)