

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: P638714

Luminaire Tested: GWS-SA4F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638714
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-SA4F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27064.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

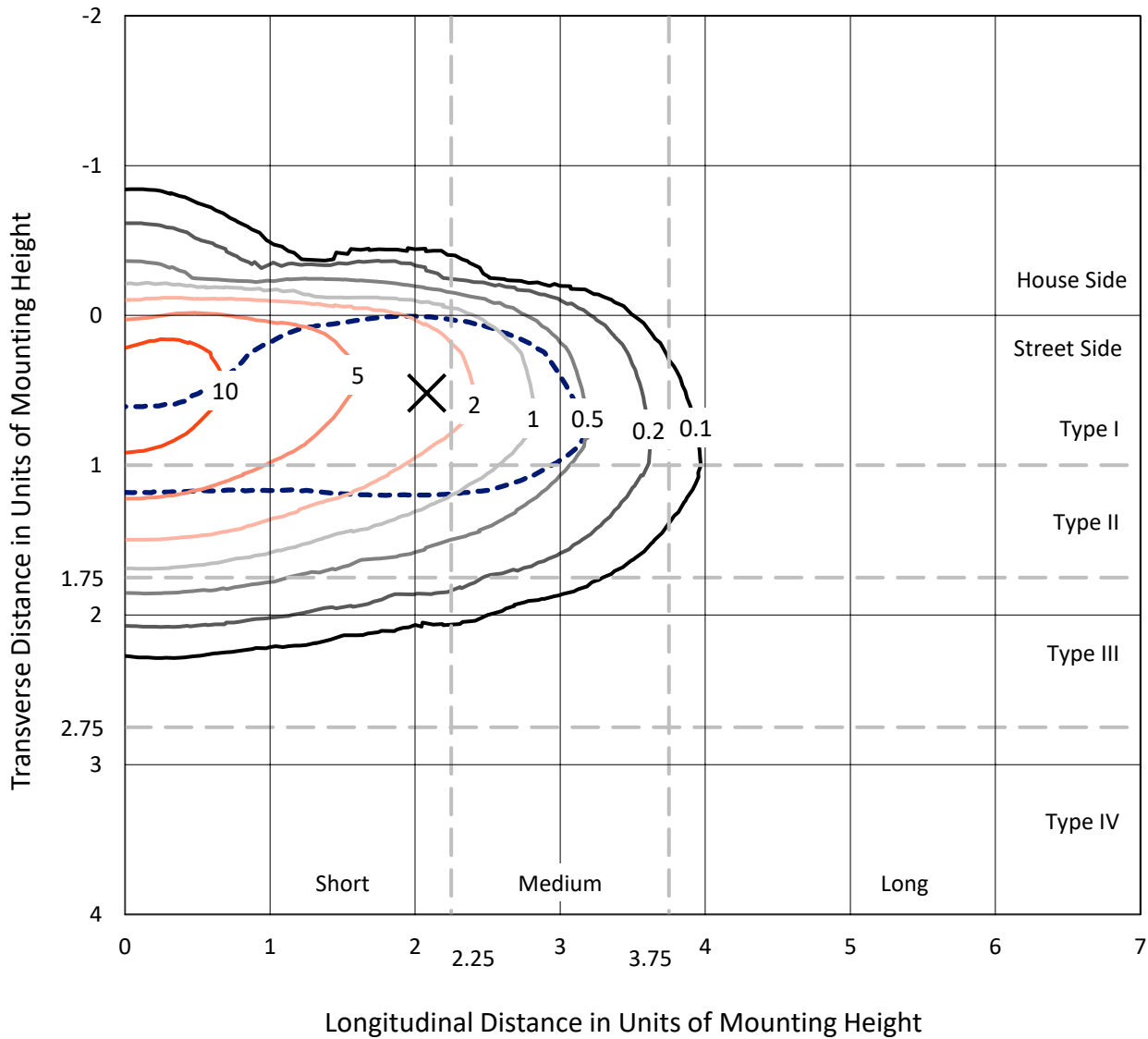
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

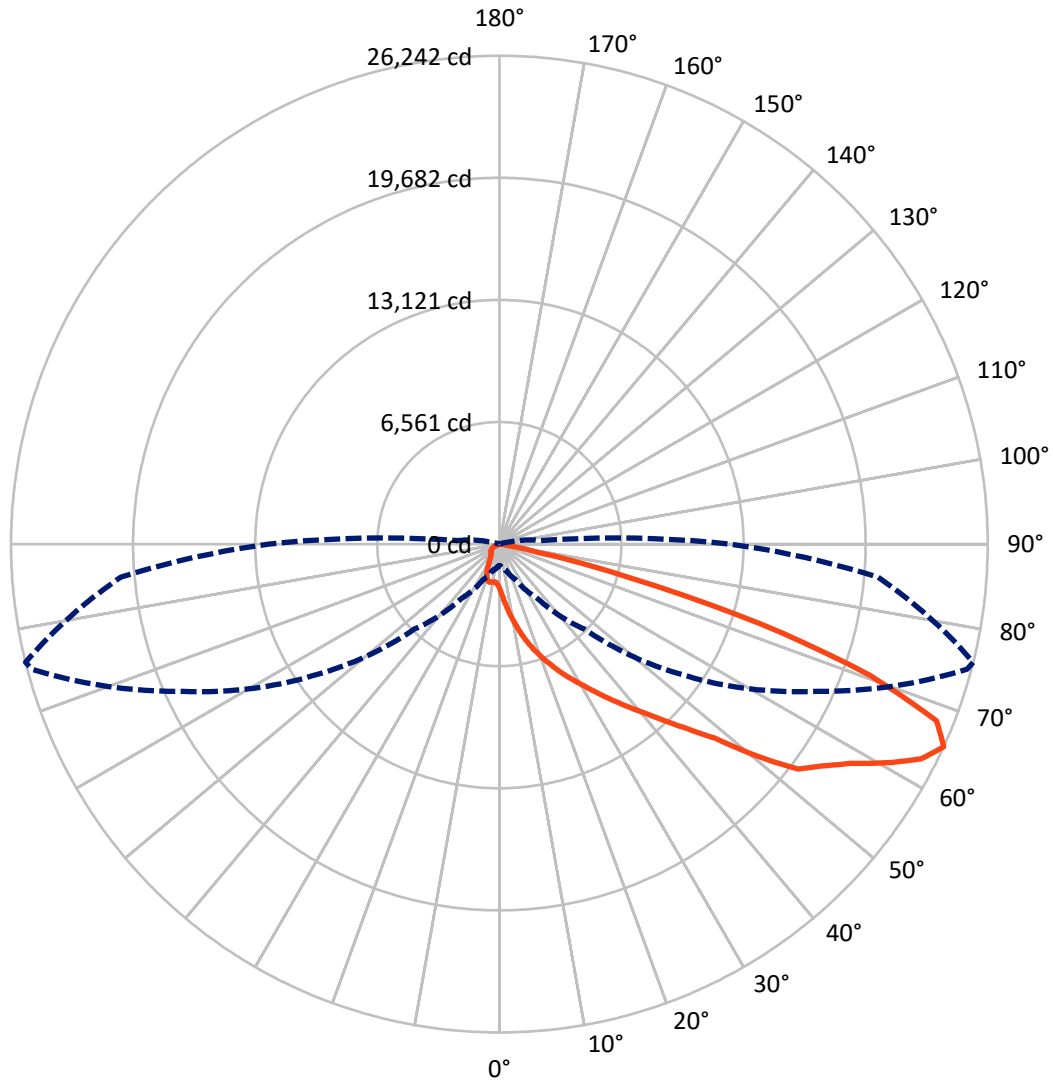
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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
House Side	Lumens	1496.5	0.0	1496.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	25567.6	0.0	25567.6
	% Fixture	94.5	0.0	94.5
Total	Lumens	27064.1	0.0	27064.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.1
10°-20°	1106.1	4.1
20°-30°	2256.6	8.3
30°-40°	4013.5	14.8
40°-50°	5932.9	21.9
50°-60°	6792.7	25.1
60°-70°	5182.5	19.1
70°-80°	1451.7	5.4
80°-90°	36.5	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°	27064.1	100.0
0°-180°	27064.1	100.0

Coefficient of Utilization



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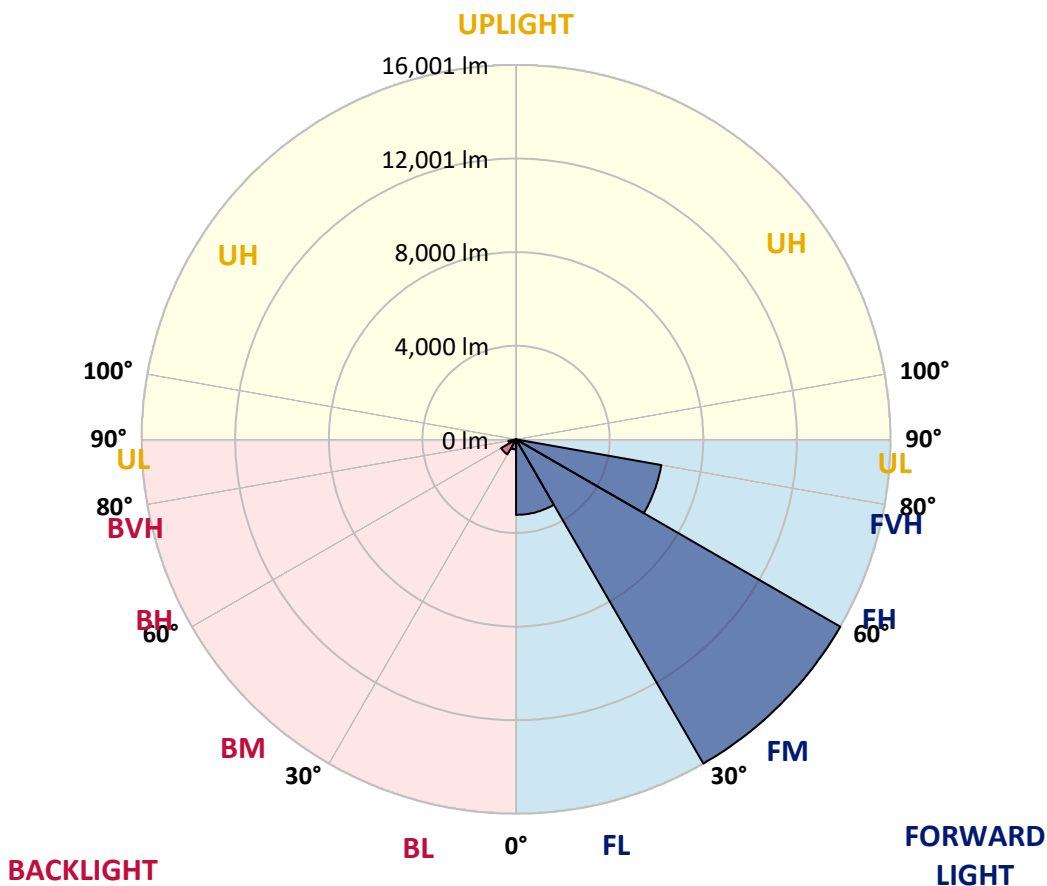
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3227.2	11.9			
FM (30°-60°)	16000.7	59.1			
FH (60°-80°)	6305.3	23.3			G3/7500
FVH (80°-90°)	34.4	0.1			G1/100
BL (0°-30°)	427.0	1.6	B1/500		
BM (30°-60°)	738.4	2.7	B1/1000		
BH (60°-80°)	329.0	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2
2.5°	3692.9	3748.2	3704.9	3632.7	3493.2	3358.5	3185.3	2947.1	2757.0	2733.0	2554.9
5°	4987.2	4982.4	4888.6	4794.7	4648.0	4417.0	4068.2	3625.5	3199.7	3163.6	2764.2
7.5°	5757.0	5764.3	5711.3	5639.2	5494.8	5256.6	4893.4	4359.3	3736.2	3664.0	3050.5
10°	6404.2	6401.8	6363.3	6329.6	6199.7	6040.9	5651.2	5064.2	4313.6	4200.5	3370.5
12.5°	6890.2	6907.0	6926.2	6959.9	6904.6	6748.2	6380.1	5740.2	4898.2	4773.1	3736.2
15°	7275.1	7279.9	7352.1	7482.0	7527.7	7445.9	7111.5	6394.6	5475.6	5367.3	4157.2
17.5°	7390.6	7400.2	7522.9	7761.1	8001.6	8047.3	7794.7	7053.8	6043.3	5927.8	4566.2
20°	7633.5	7655.2	7746.6	7955.9	8259.1	8504.4	8405.8	7720.2	6611.1	6459.5	4984.8
22.5°	8398.6	8410.6	8379.3	8405.8	8562.2	8846.1	8906.2	8364.9	7193.3	7032.1	5437.1
25°	9714.6	9719.4	9500.4	9293.5	9175.7	9228.6	9360.9	8959.1	7770.7	7611.9	5858.1
27.5°	11081.0	11097.9	10835.6	10484.4	10063.4	9822.8	9784.3	9502.8	8352.9	8177.3	6274.3
30°	12368.1	12368.1	12091.5	11663.2	11100.3	10631.2	10354.5	10051.4	8976.0	8783.5	6700.1
32.5°	13525.3	13515.7	13162.0	12697.7	12142.0	11627.1	11045.0	10623.9	9668.8	9454.7	7190.9
35°	14480.4	14456.4	14054.6	13609.5	13015.3	12632.8	11983.2	11239.8	10419.4	10205.3	7696.1
37.5°	15202.1	15175.7	14807.6	14336.1	13785.1	13537.3	12993.6	11978.4	11210.9	11016.1	8256.6
40°	15594.3	15541.4	15286.3	14935.1	14473.2	14256.7	14030.5	12895.0	12142.0	11899.0	8918.2
42.5°	15709.8	15647.2	15478.8	15315.2	15036.1	14865.3	15108.3	13929.5	13164.4	12955.1	9673.7
45°	15368.1	15332.1	15317.6	15435.5	15486.0	15534.1	16133.2	15074.6	14292.8	14134.0	10623.9
47.5°	14545.4	14535.7	14663.2	15154.0	15688.1	16195.7	17247.1	16486.8	15755.5	15584.7	11951.9
50°	13024.9	13123.5	13479.6	14340.9	15409.0	16571.0	18288.8	18445.1	18122.8	17872.6	13684.1
52.5°	10648.0	10838.1	11636.8	12945.5	14480.4	16465.2	18769.9	20013.7	20343.3	20083.5	14925.5
55°	8355.3	8533.3	9245.4	10905.4	12952.7	15659.2	18791.6	20555.0	21274.3	21033.8	15765.1
57.5°	6223.8	6387.4	7034.5	8622.3	10874.1	14073.8	18276.7	20855.7	22378.6	22224.6	17090.7
60°	4068.2	4229.4	4814.0	6202.1	8434.7	11764.3	17008.9	20793.2	23882.2	23867.8	18719.4
62.5°	2256.6	2384.1	2807.5	3890.2	5887.0	9110.7	15016.9	20165.3	25337.7	25429.1	20061.8
65°	1154.8	1236.6	1494.0	2138.7	3563.0	6459.5	12397.0	18726.6	26011.3	26242.3	20415.5
67.5°	755.4	781.9	844.4	1111.5	1907.8	4063.4	9329.6	16419.5	25063.4	25332.9	19229.4
70°	613.5	635.1	671.2	741.0	984.0	2158.0	6127.5	13113.9	20942.3	21125.2	15312.8
72.5°	449.9	478.8	548.5	594.2	709.7	1183.6	3187.7	8607.9	14381.8	14704.1	9623.1
75°	332.0	348.8	406.6	469.1	579.8	748.2	1219.7	4525.3	7426.7	7239.0	4041.7
77.5°	199.7	211.7	259.8	300.7	413.8	466.7	425.8	1672.0	2259.0	2124.3	976.7
80°	98.6	110.7	170.8	226.1	264.6	187.7	178.0	466.7	502.8	502.8	245.4
82.5°	33.7	43.3	91.4	149.2	129.9	72.2	84.2	120.3	134.7	141.9	72.2
85°	0.0	0.0	21.7	43.3	19.2	9.6	21.7	26.5	33.7	36.1	24.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	9.6	9.6
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°	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2
2.5°	2458.7	2345.6	2174.8	2020.9	1903.0	1792.3	1708.1	1640.7	1628.7	1590.2	1595.0
5°	2569.4	2364.9	2049.7	1806.7	1635.9	1520.5	1424.2	1352.1	1320.8	1289.5	1265.4
7.5°	2740.2	2444.3	2001.6	1705.7	1506.0	1328.0	1178.8	1058.5	1000.8	964.7	940.7
10°	2949.5	2554.9	2004.0	1645.6	1349.6	1077.8	873.3	741.0	678.4	659.2	656.8
12.5°	3199.7	2694.5	2023.3	1546.9	1123.5	801.1	647.2	587.0	567.8	550.9	550.9
15°	3464.3	2850.9	2023.3	1366.5	856.5	625.5	560.5	522.1	498.0	488.4	483.6
17.5°	3743.4	2997.6	1975.1	1118.7	656.8	550.9	498.0	461.9	442.7	428.2	423.4
20°	4041.7	3137.1	1854.9	856.5	563.0	493.2	442.7	406.6	387.3	372.9	372.9
22.5°	4344.8	3267.1	1660.0	659.2	498.0	437.9	389.7	356.1	336.8	322.4	322.4
25°	4626.3	3353.7	1409.8	543.7	449.9	389.7	346.4	312.8	291.1	281.5	276.7
27.5°	4888.6	3409.0	1133.1	478.8	404.2	348.8	303.1	271.9	255.0	247.8	243.0
30°	5160.4	3423.4	866.1	435.4	365.7	307.9	264.6	240.6	226.1	216.5	216.5
32.5°	5425.0	3406.6	661.6	399.4	332.0	271.9	235.8	214.1	202.1	194.9	192.5
35°	5694.5	3329.6	536.5	368.1	298.3	238.2	209.3	192.5	185.2	175.6	175.6
37.5°	5988.0	3226.2	466.7	336.8	264.6	214.1	187.7	175.6	166.0	158.8	156.4
40°	6353.7	3105.9	428.2	310.3	233.4	192.5	168.4	156.4	149.2	141.9	139.5
42.5°	6786.7	2988.0	409.0	281.5	209.3	170.8	151.6	137.1	129.9	120.3	117.9
45°	7400.2	2961.5	387.3	250.2	187.7	154.0	132.3	117.9	108.3	101.0	98.6
47.5°	8386.6	3036.1	351.2	216.5	166.0	134.7	113.1	101.0	89.0	81.8	77.0
50°	9365.7	3016.9	315.2	187.7	146.8	115.5	96.2	84.2	72.2	65.0	62.6
52.5°	9899.8	2925.4	281.5	166.0	127.5	98.6	81.8	67.4	60.1	52.9	50.5
55°	10383.4	2889.3	247.8	144.3	108.3	86.6	67.4	55.3	50.5	43.3	40.9
57.5°	11331.2	2973.5	218.9	125.1	93.8	74.6	57.7	45.7	40.9	33.7	31.3
60°	12322.4	2983.2	187.7	108.3	81.8	62.6	45.7	36.1	31.3	24.1	21.7
62.5°	12839.7	2740.2	154.0	91.4	67.4	52.9	38.5	28.9	24.1	14.4	14.4
65°	12406.6	2215.7	129.9	74.6	52.9	40.9	28.9	21.7	14.4	7.2	2.4
67.5°	10980.0	1575.8	108.3	60.1	38.5	28.9	21.7	14.4	2.4	0.0	0.0
70°	8040.1	899.8	84.2	43.3	28.9	19.2	14.4	7.2	0.0	0.0	0.0
72.5°	4941.5	481.2	62.6	28.9	21.7	14.4	12.0	4.8	0.0	0.0	0.0
75°	1874.1	231.0	38.5	19.2	16.8	12.0	7.2	2.4	0.0	0.0	0.0
77.5°	507.6	113.1	21.7	14.4	12.0	7.2	4.8	0.0	0.0	0.0	0.0
80°	132.3	52.9	14.4	9.6	7.2	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	45.7	24.1	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	19.2	9.6	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.4	2.4	2.4	2.4	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)