

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: P640994

Luminaire Tested: GWS-SA5F-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640994
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-SA5F-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: 25782 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

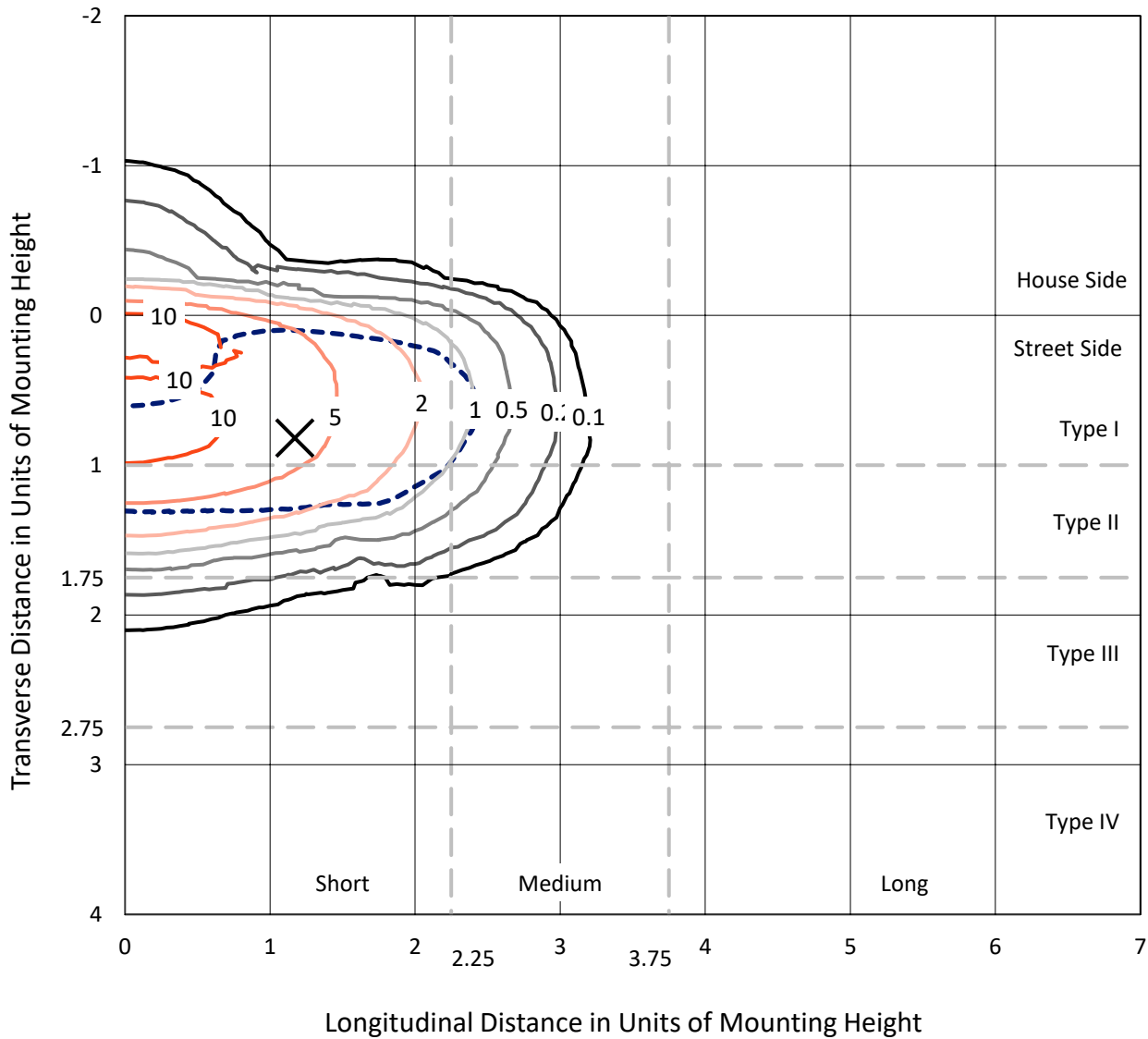
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640994
 CATALOG NUMBER: GWS-SA5F-722-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

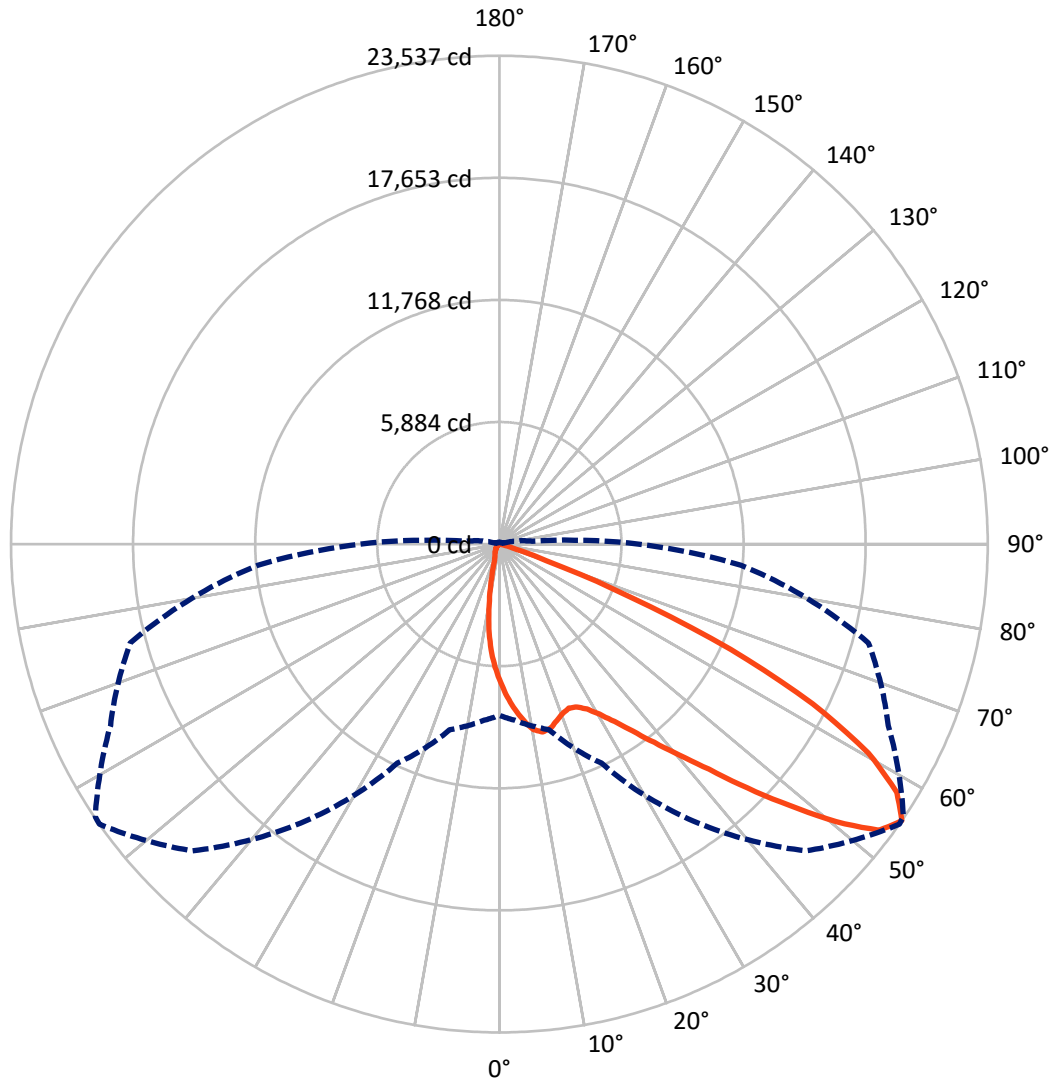
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

REPORT NUMBER: P640994
CATALOG NUMBER: GWS-SA5F-722-U-AFL-W-HSS

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	1590.9	0.0	1590.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24191.1	0.0	24191.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	25782.0	0.0	25782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.6	2.3
10°-20°	1419.1	5.5
20°-30°	2363.4	9.2
30°-40°	4027.4	15.6
40°-50°	6574.1	25.5
50°-60°	6882.7	26.7
60°-70°	3471.5	13.5
70°-80°	438.5	1.7
80°-90°	16.6	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°	25782.0	100.0
0°-180°	25782.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640994

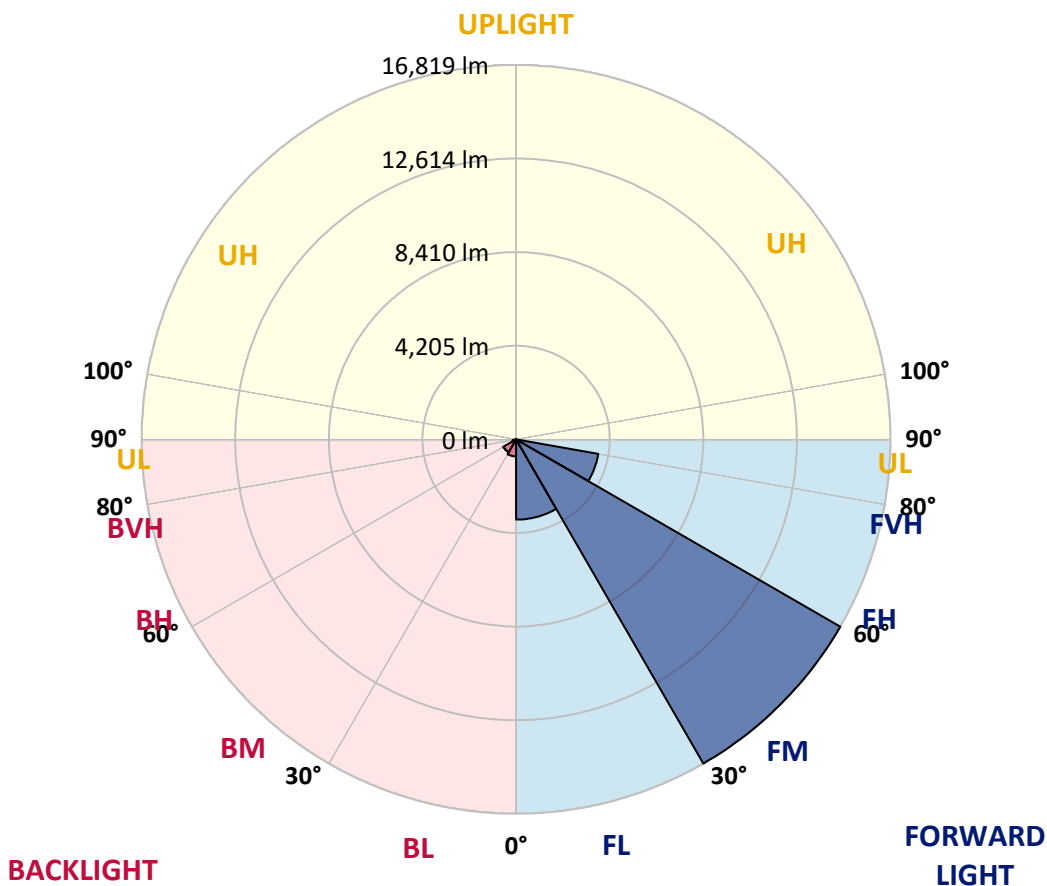
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3606.5	14.0			
FM (30°-60°)	16819.0	65.2			
FH (60°-80°)	3750.4	14.5			G2/5000
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	764.6	3.0	B2/1000		
BM (30°-60°)	665.2	2.6	B1/1000		
BH (60°-80°)	159.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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





REPORT NUMBER: P640994

CATALOG NUMBER: GWS-SA5F-722-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
2.5°	7764.8	7727.3	7784.6	7718.5	7606.1	7511.3	7387.9	7343.8	7145.4	6958.1	6777.4
5°	8708.1	8719.1	8701.5	8608.9	8450.2	8273.9	8024.8	7969.7	7623.7	7266.7	6881.0
7.5°	8941.7	8935.1	8972.6	9007.8	8981.4	8893.2	8622.1	8567.0	8137.3	7601.7	7039.7
10°	8221.0	8225.4	8302.6	8540.6	8835.9	9142.3	9100.4	9069.6	8648.6	7980.8	7216.0
12.5°	7202.7	7242.4	7324.0	7663.4	8163.7	8860.2	9292.2	9323.0	9118.0	8397.3	7423.2
15°	6761.9	6770.8	6836.9	7041.9	7414.3	8273.9	9210.6	9296.6	9510.4	8816.1	7648.0
17.5°	6750.9	6761.9	6790.6	6881.0	7123.4	7813.3	8948.3	9098.2	9805.7	9265.7	7916.9
20°	7165.3	7158.7	7138.8	7090.3	7196.1	7661.2	8705.9	8871.2	9966.6	9704.3	8187.9
22.5°	7916.9	7908.0	7819.9	7619.3	7533.4	7800.0	8586.9	8736.7	10063.6	10094.4	8410.6
25°	8783.0	8844.7	8679.4	8375.3	8163.7	8154.9	8692.7	8798.5	10147.3	10440.5	8562.6
27.5°	9733.0	9752.8	9611.7	9270.1	8963.8	8723.5	8999.0	9078.4	10239.9	10749.0	8648.6
30°	10775.5	10768.9	10608.0	10211.2	9838.8	9492.7	9514.8	9545.6	10455.9	11101.7	8743.4
32.5°	12078.0	12106.7	11820.2	11280.2	10832.8	10354.5	10189.2	10193.6	10846.0	11555.7	8886.6
35°	13847.9	13777.4	13398.3	12629.1	11866.5	11350.7	11068.6	11044.4	11447.7	12166.2	9135.7
37.5°	15534.0	15540.6	15143.8	14297.5	13334.3	12521.1	12122.1	12056.0	12294.0	13012.6	9550.0
40°	16704.3	16726.3	16561.0	16118.0	15097.6	13947.1	13360.8	13292.5	13391.6	14083.7	10092.2
42.5°	17323.6	17385.3	17431.6	17535.2	16761.6	15727.9	14826.5	14819.9	14716.3	15304.7	10720.4
45°	17347.9	17440.4	17722.6	18430.0	18518.2	17760.0	16779.2	16631.6	16232.6	16611.7	11282.4
47.5°	16389.1	16602.9	17202.4	18604.2	19529.9	19781.1	18809.1	18718.8	17599.1	17645.4	11703.4
50°	14154.2	14376.8	15481.1	17711.5	19785.5	21385.6	21037.4	20850.1	18740.8	18328.7	11906.1
52.5°	11862.1	12064.8	12814.2	15586.9	18725.4	21890.4	22915.2	22692.6	19765.7	18566.7	11822.4
55°	8254.1	8525.2	9256.9	11650.5	16283.3	20907.4	23536.8	23490.5	20680.4	18416.8	11692.3
57.5°	4046.6	4315.5	5045.0	7182.9	12062.6	18253.7	22586.8	22831.5	21226.9	18255.9	11586.6
60°	1690.5	1800.7	2051.9	3151.8	6748.7	13795.0	20442.3	20781.7	20891.9	18037.7	11575.5
62.5°	980.8	998.4	1024.9	1307.0	2625.0	7908.0	16957.8	17440.4	19130.9	17749.0	11401.4
65°	740.6	747.2	736.1	802.3	1084.4	2999.7	12252.2	12909.0	15968.1	16620.5	10713.8
67.5°	608.3	608.3	579.7	592.9	681.0	1124.1	6764.1	7681.0	11815.8	13660.5	8846.9
70°	484.9	495.9	482.7	465.0	487.1	621.5	2406.8	2984.2	6881.0	8066.7	5159.6
72.5°	368.1	368.1	390.1	376.9	361.5	390.1	839.7	943.3	2761.6	3363.3	1862.4
75°	284.3	293.1	308.6	295.3	273.3	231.4	403.3	427.6	833.1	782.4	416.6
77.5°	145.5	147.7	196.2	216.0	202.8	141.1	176.3	194.0	271.1	242.4	154.3
80°	88.2	92.6	110.2	169.7	134.4	74.9	72.7	77.1	127.8	110.2	63.9
82.5°	37.5	39.7	61.7	61.7	55.1	28.7	28.7	28.7	61.7	57.3	26.4
85°	0.0	0.0	11.0	8.8	8.8	11.0	11.0	11.0	15.4	22.0	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640994

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
2.5°	6660.6	6519.5	6330.0	6158.0	5926.6	5796.6	5615.9	5468.2	5342.6	5302.9	5285.2
5°	6662.8	6420.3	6014.8	5609.2	5111.1	4718.8	4315.5	3995.9	3733.6	3649.9	3627.8
7.5°	6706.8	6349.8	5693.0	4956.8	4123.7	3436.1	2821.1	2270.1	2014.5	1928.5	1910.9
10°	6766.4	6290.3	5320.5	4174.4	2977.6	2093.8	1483.3	1130.7	963.2	870.6	883.8
12.5°	6843.5	6241.8	4908.4	3328.1	1970.4	1150.5	815.5	683.2	648.0	630.4	621.5
15°	6947.1	6184.5	4397.0	2488.3	1207.8	740.6	628.1	592.9	579.7	570.8	568.6
17.5°	7052.9	6118.4	3876.9	1750.0	802.3	614.9	564.2	546.6	537.8	531.2	529.0
20°	7165.3	6006.0	3266.4	1205.6	632.6	553.2	520.1	500.3	489.3	478.3	476.1
22.5°	7213.8	5825.2	2682.3	844.1	562.0	509.1	467.3	443.0	429.8	421.0	421.0
25°	7167.5	5532.1	2078.4	641.4	511.3	460.6	418.8	392.3	381.3	372.5	372.5
27.5°	7044.1	5155.2	1516.4	531.2	456.2	409.9	370.3	346.0	337.2	332.8	332.8
30°	6907.4	4679.1	1069.0	456.2	394.5	357.1	324.0	308.6	306.4	302.0	302.0
32.5°	6790.6	4233.9	736.1	401.1	348.2	310.8	288.7	282.1	284.3	279.9	282.1
35°	6726.7	3797.5	546.6	357.1	310.8	275.5	264.5	264.5	264.5	262.3	262.3
37.5°	6753.1	3367.7	445.2	326.2	277.7	251.3	240.2	244.6	249.1	249.1	249.1
40°	6885.4	2986.5	394.5	297.5	249.1	229.2	220.4	227.0	233.6	238.0	238.0
42.5°	7052.9	2677.9	357.1	273.3	229.2	207.2	202.8	209.4	216.0	220.4	220.4
45°	7158.7	2367.1	319.6	242.4	209.4	182.9	182.9	191.8	189.5	191.8	191.8
47.5°	7207.2	2120.3	282.1	209.4	178.5	158.7	160.9	165.3	160.9	165.3	165.3
50°	7088.1	1871.2	249.1	174.1	147.7	138.9	143.3	141.1	141.1	149.9	149.9
52.5°	6869.9	1686.1	220.4	147.7	125.6	123.4	127.8	119.0	121.2	121.2	119.0
55°	6709.0	1580.3	196.2	127.8	108.0	110.2	108.0	92.6	83.8	74.9	72.7
57.5°	6629.7	1538.4	178.5	114.6	97.0	97.0	88.2	63.9	48.5	37.5	33.1
60°	6612.1	1487.7	160.9	99.2	86.0	81.5	63.9	37.5	24.2	17.6	15.4
62.5°	6444.6	1364.3	145.5	79.3	74.9	66.1	39.7	22.0	13.2	8.8	6.6
65°	5895.8	1121.8	130.0	61.7	57.3	48.5	24.2	13.2	6.6	2.2	0.0
67.5°	4690.2	795.7	114.6	46.3	39.7	30.9	15.4	8.8	2.2	0.0	0.0
70°	2704.3	429.8	94.8	33.1	26.4	19.8	11.0	4.4	0.0	0.0	0.0
72.5°	903.6	200.6	72.7	22.0	19.8	15.4	6.6	2.2	0.0	0.0	0.0
75°	198.4	119.0	48.5	15.4	13.2	11.0	4.4	0.0	0.0	0.0	0.0
77.5°	74.9	83.8	24.2	11.0	8.8	6.6	2.2	0.0	0.0	0.0	0.0
80°	28.7	55.1	11.0	6.6	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	22.0	6.6	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	11.0	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	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)