

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: P636262

Luminaire Tested: GWS-SA3F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18414.8 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

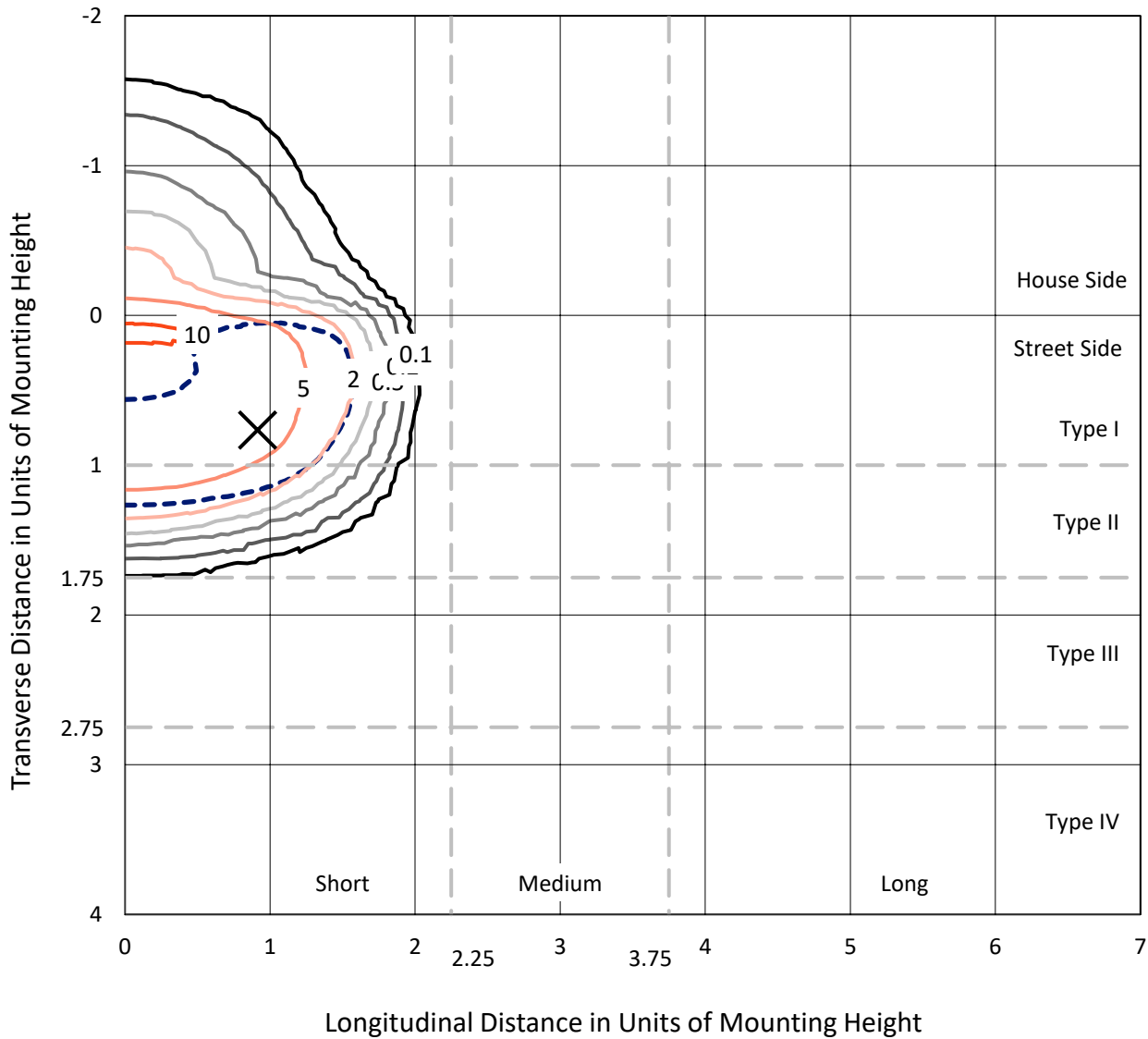
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

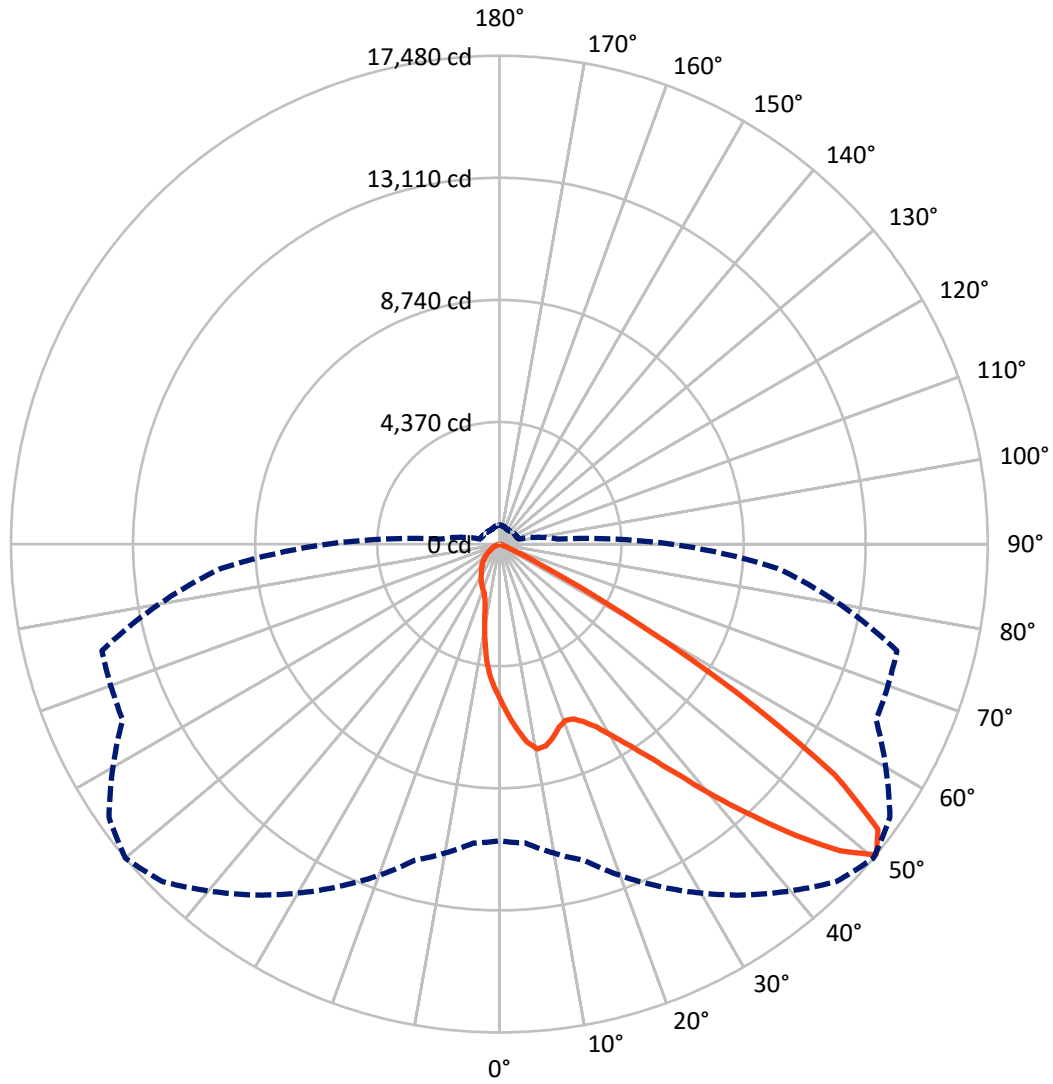
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.0	0.0	2366.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16048.8	0.0	16048.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	18414.8	0.0	18414.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.5	2.8
10°-20°	1335.3	7.3
20°-30°	2203.7	12.0
30°-40°	3636.5	19.7
40°-50°	5753.8	31.2
50°-60°	4356.3	23.7
60°-70°	545.2	3.0
70°-80°	61.7	0.3
80°-90°	4.7	0.0
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°	18414.8	100.0
0°-180°	18414.8	100.0

Coefficient of Utilization



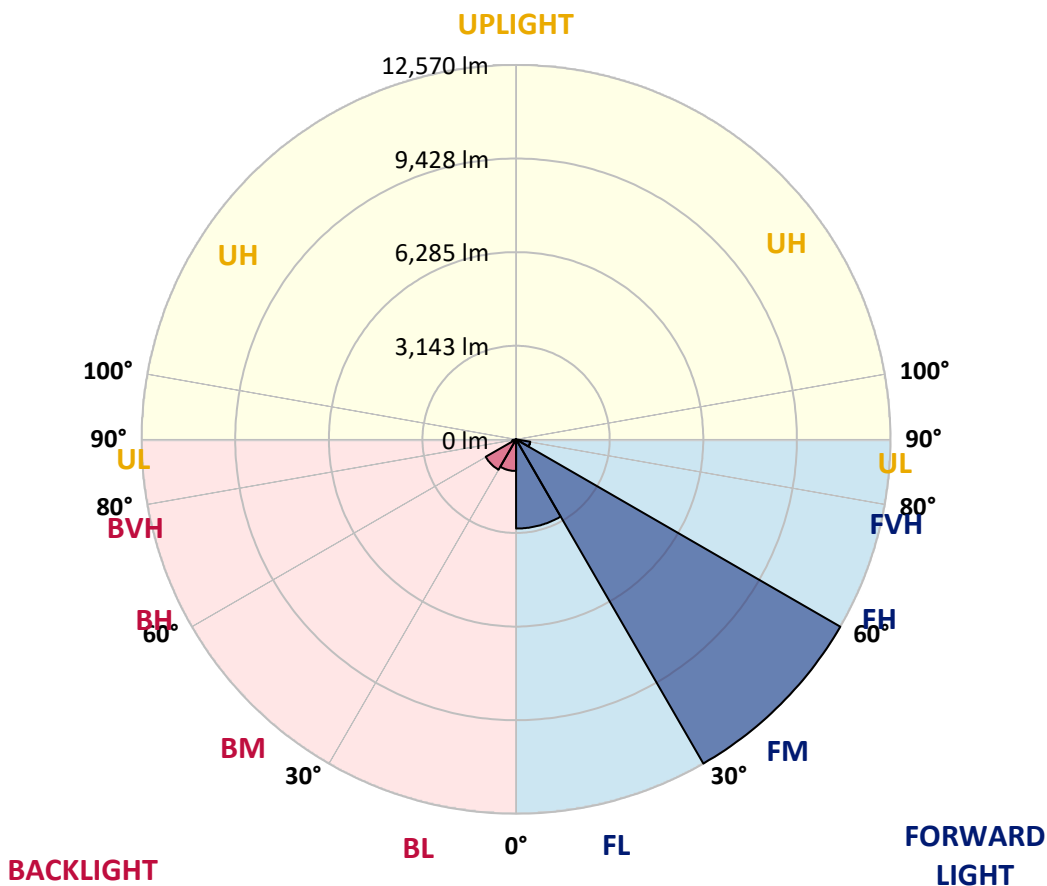
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2994.5	16.3			
FM (30°-60°)	12570.0	68.3			
FH (60°-80°)	482.0	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1062.0	5.8	B3/2500		
BM (30°-60°)	1176.7	6.4	B2/2500		
BH (60°-80°)	124.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0
2.5°	6357.2	6408.0	6394.0	6327.4	6255.5	6204.7	6125.8	6101.3	5922.5	5798.0	5666.6
5°	7124.9	7140.6	7123.1	7042.5	6916.3	6795.3	6665.6	6590.3	6290.6	6020.6	5745.5
7.5°	7308.9	7289.6	7322.9	7363.2	7345.7	7293.1	7156.4	7074.0	6716.5	6276.5	5859.4
10°	6734.0	6690.2	6814.6	7023.2	7242.3	7489.4	7454.4	7461.4	7131.9	6599.0	6008.4
12.5°	5971.6	5954.0	6046.9	6288.8	6718.2	7279.1	7414.1	7640.2	7512.2	6947.8	6178.4
15°	5636.8	5645.6	5701.6	5854.1	6162.6	6860.2	7184.5	7592.8	7852.2	7286.1	6365.9
17.5°	5687.6	5719.2	5717.4	5768.2	5955.8	6514.9	6893.5	7443.9	8115.2	7675.2	6581.5
20°	6032.9	6064.5	6017.1	5978.6	6041.7	6427.3	6741.0	7293.1	8292.2	8067.8	6809.4
22.5°	6550.0	6586.8	6474.6	6364.2	6323.9	6571.0	6798.9	7231.8	8427.1	8427.1	7012.7
25°	7175.7	7226.5	7053.0	6856.7	6744.5	6874.2	7046.0	7370.2	8565.6	8749.6	7151.2
27.5°	7875.0	7876.8	7727.8	7507.0	7296.6	7312.4	7415.8	7682.2	8718.1	9096.7	7259.8
30°	8662.0	8667.3	8469.2	8204.5	7939.9	7868.0	7955.7	8157.2	9035.3	9533.1	7410.6
32.5°	9678.6	9703.1	9419.2	9030.1	8686.5	8551.6	8602.4	8814.5	9540.1	10080.0	7636.7
35°	11052.7	11079.0	10660.1	10146.6	9599.7	9396.4	9447.2	9661.1	10271.0	10856.4	7997.7
37.5°	12409.4	12444.4	12020.2	11541.8	10791.6	10455.1	10507.6	10711.0	11368.2	11929.1	8576.1
40°	13347.1	13394.4	13262.9	12940.4	12244.6	11802.9	11866.0	11939.6	12575.9	13212.1	9326.3
42.5°	13841.3	13907.9	13964.0	14128.8	13762.5	13392.6	13285.7	13291.0	13804.5	14519.6	10106.3
45°	13871.1	13936.0	14223.4	14859.7	15138.4	15061.2	14866.7	14735.2	14742.2	15390.8	10593.5
47.5°	12907.1	13028.1	13566.2	14812.4	15860.5	16500.2	16402.1	16090.1	15136.6	15448.6	10540.9
50°	10623.3	10742.5	11720.5	13513.6	15334.7	17075.1	17480.0	17061.1	14879.0	14728.2	9999.3
52.5°	7715.5	7727.8	8362.3	10456.8	13203.3	16014.7	16968.2	16927.9	14486.3	13855.4	9259.7
55°	3665.0	3621.1	4334.5	5901.5	9131.7	12952.7	14560.0	15015.7	13929.0	13224.4	8686.5
57.5°	1067.4	1088.4	1405.7	2303.1	4567.6	8278.2	9971.3	10819.6	11433.1	10872.2	6737.5
60°	478.5	480.2	534.6	701.1	1521.4	3850.8	5154.8	6204.7	6835.7	6334.4	3342.5
62.5°	347.0	348.8	369.8	396.1	517.1	1304.0	1933.3	2576.5	2623.8	1717.7	846.6
65°	289.2	289.2	292.7	292.7	310.2	466.2	587.2	757.2	638.0	473.2	331.3
67.5°	233.1	234.9	238.4	238.4	233.1	233.1	252.4	276.9	296.2	366.3	305.0
70°	182.3	180.5	180.5	182.3	177.0	150.7	163.0	185.8	203.3	285.7	264.7
72.5°	142.0	143.7	142.0	135.0	122.7	89.4	96.4	120.9	129.7	178.8	178.8
75°	106.9	108.7	101.7	77.1	50.8	28.0	36.8	59.6	75.4	87.6	64.9
77.5°	14.0	14.0	10.5	10.5	8.8	10.5	10.5	14.0	21.0	21.0	15.8
80°	1.8	1.8	1.8	3.5	5.3	7.0	7.0	7.0	7.0	8.8	8.8
82.5°	1.8	1.8	1.8	1.8	5.3	5.3	7.0	7.0	7.0	7.0	7.0
85°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.0	7.0	7.0	7.0
87.5°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	5.3	7.0	7.0	7.0
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°	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0	5579.0
2.5°	5587.7	5486.1	5363.4	5279.2	5160.0	5081.2	4969.0	4893.6	4828.8	4778.0	4806.0
5°	5589.5	5428.2	5177.6	4963.7	4730.6	4516.8	4287.2	4106.7	3943.7	3870.0	3910.3
7.5°	5624.5	5393.2	5009.3	4629.0	4182.0	3740.3	3326.7	2990.2	2823.7	2744.8	2769.3
10°	5692.9	5377.4	4821.8	4190.8	3465.2	2862.2	2460.8	2233.0	2140.1	2091.0	2099.8
12.5°	5756.0	5366.9	4578.1	3614.1	2734.3	2220.7	2012.1	1980.6	1999.9	2001.6	1999.9
15°	5841.9	5347.6	4276.7	3021.7	2187.4	1919.2	1924.5	1970.1	2015.6	2029.7	2026.2
17.5°	5933.0	5317.8	3887.6	2453.8	1856.1	1831.6	1893.0	1954.3	1999.9	2006.9	2008.6
20°	6027.7	5256.4	3444.1	2003.4	1701.9	1765.0	1833.4	1878.9	1912.2	1922.7	1926.3
22.5°	6071.5	5126.7	2932.3	1680.9	1598.5	1682.6	1733.5	1793.0	1803.6	1765.0	1772.0
25°	6048.7	4907.7	2432.8	1463.5	1495.1	1579.2	1654.6	1624.8	1581.0	1552.9	1561.7
27.5°	5976.8	4616.7	1943.8	1304.0	1384.7	1491.6	1500.3	1467.0	1460.0	1437.2	1444.3
30°	5899.7	4281.9	1563.4	1176.1	1272.5	1384.7	1358.4	1370.6	1372.4	1346.1	1354.9
32.5°	5852.4	3931.4	1244.4	1090.2	1200.6	1221.7	1274.2	1298.8	1300.5	1239.2	1249.7
35°	5868.2	3586.1	1053.4	1020.1	1134.0	1128.8	1202.4	1216.4	1114.7	1030.6	1039.4
37.5°	5996.1	3267.1	944.7	965.8	1018.3	1058.7	1114.7	1021.8	999.1	960.5	965.8
40°	6234.5	2995.4	879.9	932.5	939.5	1004.3	918.4	930.7	932.5	907.9	913.2
42.5°	6513.2	2769.3	841.3	913.2	895.6	906.2	820.3	844.8	871.1	860.6	862.3
45°	6653.4	2548.5	808.0	846.6	851.8	751.9	732.6	758.9	792.2	797.5	799.2
47.5°	6528.9	2338.1	773.0	750.2	785.2	685.3	662.5	671.3	709.9	730.9	734.4
50°	6148.6	2096.3	720.4	664.3	645.0	615.2	594.2	595.9	639.7	676.6	683.6
52.5°	5614.0	1843.9	634.5	562.6	518.8	541.6	546.9	536.3	576.6	613.5	620.5
55°	5095.2	1528.4	503.0	457.5	417.2	466.2	480.2	466.2	478.5	503.0	504.8
57.5°	3587.8	864.1	385.6	378.6	345.3	399.6	422.4	401.4	380.3	396.1	399.6
60°	1663.3	452.2	296.2	296.2	287.4	343.5	382.1	352.3	312.0	319.0	324.3
62.5°	520.6	285.7	217.3	205.1	234.9	292.7	324.3	294.5	247.1	247.1	254.1
65°	294.5	245.4	171.8	157.7	191.0	234.9	254.1	222.6	180.5	177.0	177.0
67.5°	273.4	233.1	152.5	127.9	135.0	150.7	157.7	136.7	124.4	122.7	124.4
70°	226.1	194.6	122.7	87.6	82.4	80.6	84.1	78.9	75.4	77.1	82.4
72.5°	140.2	117.4	77.1	52.6	45.6	43.8	43.8	43.8	42.1	42.1	42.1
75°	50.8	43.8	35.1	26.3	22.8	21.0	21.0	22.8	21.0	19.3	17.5
77.5°	15.8	14.0	14.0	14.0	12.3	10.5	8.8	8.8	7.0	5.3	5.3
80°	8.8	8.8	8.8	8.8	7.0	7.0	5.3	3.5	1.8	1.8	0.0
82.5°	8.8	8.8	8.8	7.0	7.0	7.0	5.3	3.5	1.8	0.0	0.0
85°	7.0	7.0	7.0	7.0	7.0	7.0	5.3	3.5	1.8	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	5.3	3.5	1.8	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)