

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: P639702

Luminaire Tested: GWS-SA5C-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15743.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

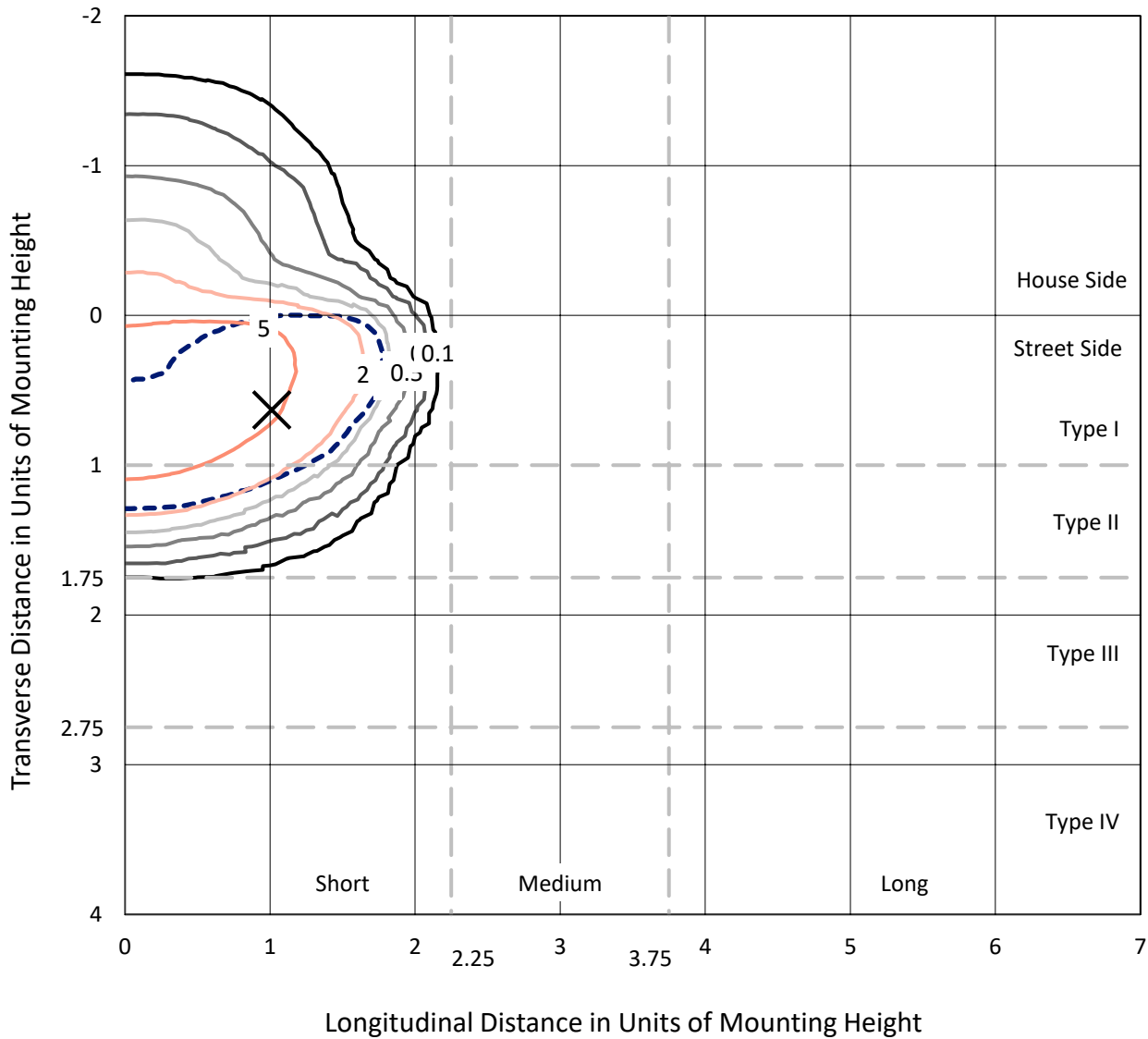
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

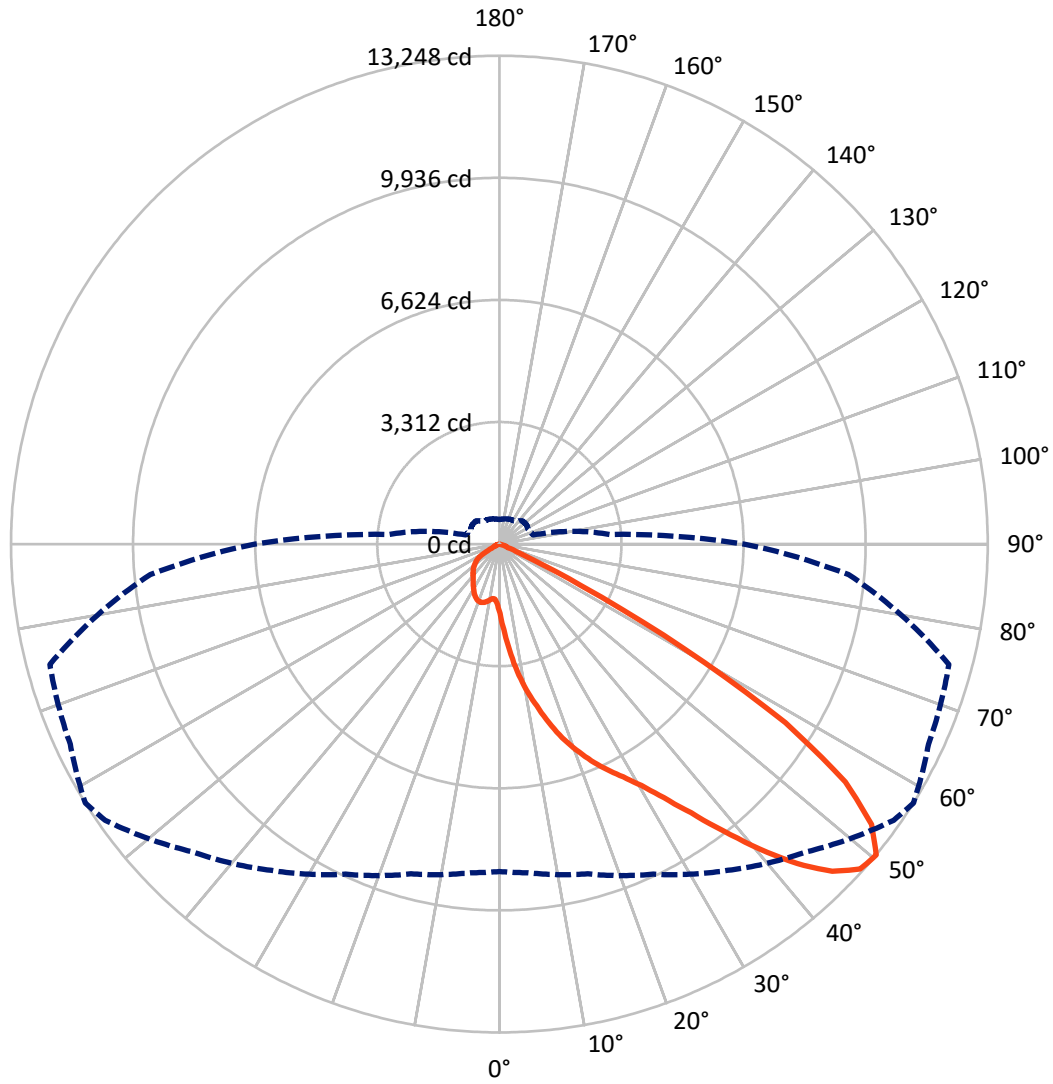
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.1	0.0	2205.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13538.7	0.0	13538.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	15743.8	0.0	15743.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	1.5
10°-20°	922.3	5.9
20°-30°	1866.3	11.9
30°-40°	3301.6	21.0
40°-50°	4813.1	30.6
50°-60°	3857.8	24.5
60°-70°	695.0	4.4
70°-80°	54.8	0.3
80°-90°	0.0	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°	15743.8	100.0
0°-180°	15743.8	100.0

Coefficient of Utilization



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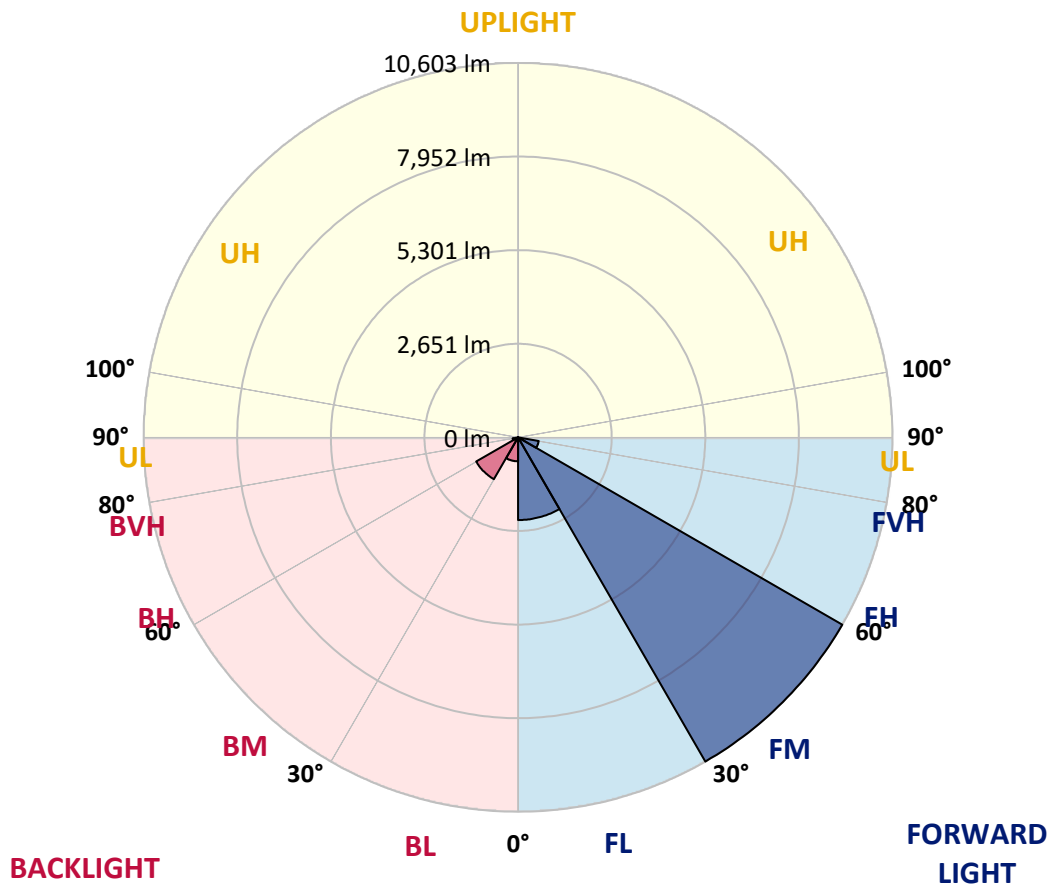
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.6	14.9			
FM (30°-60°)	10603.0	67.3			
FH (60°-80°)	593.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	678.9	4.3	B2/1000		
BM (30°-60°)	1369.5	8.7	B2/2500		
BH (60°-80°)	156.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	2783.0	2739.2	2713.9	2693.7	2604.5	2463.1	2370.5	2321.7	2240.9	2104.5	1986.6
5°	3631.5	3599.5	3540.6	3500.2	3385.7	3185.4	2978.3	2895.8	2712.3	2404.2	2128.1
7.5°	4193.8	4170.3	4148.4	4094.5	3986.7	3804.9	3575.9	3490.1	3207.2	2769.5	2316.6
10°	4626.5	4608.0	4582.7	4581.0	4496.9	4333.6	4109.6	4020.4	3714.0	3166.8	2538.9
12.5°	5007.0	4991.8	4986.8	5033.9	4980.1	4858.8	4616.4	4505.3	4180.4	3572.6	2784.7
15°	5268.0	5264.6	5286.5	5379.1	5409.4	5353.8	5150.1	5030.6	4656.8	3980.0	3055.7
17.5°	5387.5	5397.6	5439.7	5599.6	5734.3	5781.4	5624.9	5523.9	5129.9	4392.5	3345.3
20°	5591.2	5587.8	5613.1	5764.6	5929.6	6098.0	6050.8	5965.0	5608.0	4828.5	3666.9
22.5°	6165.3	6116.5	6062.6	6086.2	6145.1	6342.1	6429.6	6385.9	6101.3	5276.4	3998.5
25°	7047.5	6997.0	6823.6	6655.2	6544.1	6633.3	6752.9	6774.8	6591.3	5736.0	4345.3
27.5°	7983.6	7938.1	7742.8	7490.3	7172.1	7017.2	7106.4	7150.2	7072.8	6283.2	4714.1
30°	8860.7	8800.1	8586.3	8273.2	7904.5	7667.1	7566.1	7596.4	7641.8	6931.3	5146.7
32.5°	9621.7	9576.3	9320.4	8990.4	8635.1	8387.6	8151.9	8202.4	8313.6	7724.3	5700.6
35°	10266.5	10243.0	9971.9	9643.6	9268.2	9141.9	8939.9	8950.0	9061.1	8682.3	6375.8
37.5°	10827.2	10786.8	10541.0	10236.2	9938.2	9918.0	9862.5	9867.5	9924.8	9798.5	7151.9
40°	11180.7	11143.7	10968.6	10780.0	10567.9	10571.3	10859.2	10881.0	10815.4	10894.5	7971.8
42.5°	11313.7	11286.8	11192.5	11194.2	11172.3	11271.6	11812.1	11852.5	11616.8	11754.8	8672.2
45°	11083.1	11071.3	11078.0	11320.5	11583.1	11889.5	12591.6	12662.3	12328.9	12325.6	9219.3
47.5°	10338.9	10315.4	10512.3	10924.8	11532.6	12128.6	13063.0	13172.4	12827.3	12652.2	9562.8
50°	8880.9	8948.3	9259.7	9879.3	10803.6	11800.3	13057.9	13248.2	12845.8	12623.6	9505.5
52.5°	6433.0	6419.5	7101.4	7953.3	9077.9	10749.7	12364.3	12642.1	12396.3	12342.4	9377.6
55°	3500.2	3623.1	4082.7	5210.7	6614.8	8761.4	10780.0	11386.1	11670.6	12239.7	9608.2
57.5°	1286.3	1340.1	1628.0	2426.1	3501.9	5448.1	8234.4	9148.6	10027.5	11953.5	9569.5
60°	518.5	528.6	643.1	892.3	1471.5	2772.9	4939.7	5751.1	6579.5	9150.3	7343.8
62.5°	377.1	390.6	436.0	521.9	744.1	1212.2	2129.7	2476.6	2707.2	4532.2	3618.0
65°	304.7	314.8	351.9	390.6	491.6	651.5	686.9	661.7	658.3	1171.8	830.0
67.5°	252.5	262.6	289.6	316.5	353.6	324.9	235.7	247.5	202.0	200.3	163.3
70°	185.2	197.0	223.9	252.5	212.1	87.5	136.4	202.0	153.2	128.0	124.6
72.5°	139.7	148.2	173.4	165.0	62.3	33.7	90.9	146.5	117.9	94.3	92.6
75°	104.4	109.4	87.5	26.9	6.7	8.4	33.7	60.6	65.7	53.9	53.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.1	6.7	8.4	10.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1919.3	1848.6	1747.6	1663.4	1599.4	1537.1	1490.0	1442.8	1441.2	1417.6	1412.5
5°	2000.1	1872.2	1687.0	1554.0	1473.1	1424.3	1390.6	1373.8	1365.4	1357.0	1353.6
7.5°	2116.3	1932.8	1676.9	1535.4	1468.1	1436.1	1412.5	1402.4	1397.4	1390.6	1389.0
10°	2259.4	2020.3	1713.9	1570.8	1511.9	1481.6	1456.3	1441.2	1432.7	1420.9	1417.6
12.5°	2431.1	2128.1	1772.8	1629.7	1567.4	1527.0	1493.3	1471.5	1459.7	1444.5	1441.2
15°	2616.3	2244.2	1838.5	1683.6	1609.5	1557.3	1515.2	1481.6	1459.7	1441.2	1436.1
17.5°	2808.2	2362.1	1897.4	1720.6	1629.7	1567.4	1506.8	1461.4	1434.4	1410.8	1404.1
20°	3023.7	2483.3	1936.1	1727.4	1623.0	1540.5	1469.8	1412.5	1385.6	1353.6	1346.9
22.5°	3249.3	2596.1	1953.0	1712.2	1585.9	1490.0	1414.2	1355.3	1316.6	1282.9	1272.8
25°	3468.2	2697.1	1944.5	1670.1	1530.4	1419.3	1341.8	1281.2	1239.1	1205.5	1197.0
27.5°	3700.5	2781.3	1914.2	1607.8	1454.6	1341.8	1267.7	1215.6	1176.8	1139.8	1131.4
30°	3961.5	2858.7	1865.4	1532.1	1365.4	1262.7	1205.5	1170.1	1128.0	1089.3	1077.5
32.5°	4276.3	2927.8	1794.7	1441.2	1286.3	1193.7	1161.7	1134.7	1085.9	1045.5	1037.1
35°	4636.6	2985.0	1705.5	1346.9	1208.8	1149.9	1143.2	1107.8	1043.8	996.7	986.6
37.5°	5054.1	3040.6	1599.4	1254.3	1151.6	1129.7	1131.4	1070.8	993.3	936.1	929.3
40°	5503.7	3096.1	1481.6	1173.5	1099.4	1117.9	1102.8	1016.9	890.6	835.1	828.3
42.5°	5971.7	3156.7	1362.0	1097.7	1055.6	1072.4	1050.6	909.1	818.2	789.6	786.2
45°	6394.3	3229.1	1232.4	1021.9	1011.8	1006.8	969.7	823.3	784.6	764.3	762.7
47.5°	6699.0	3217.3	1094.3	949.5	964.7	947.9	835.1	782.9	750.9	723.9	717.2
50°	6643.4	3011.9	951.2	868.7	904.1	888.9	750.9	735.7	707.1	678.5	668.4
52.5°	6502.0	2732.5	826.6	782.9	838.4	803.1	693.6	678.5	653.2	616.2	604.4
55°	6577.8	2469.8	729.0	713.8	771.1	665.0	629.7	606.1	579.2	538.7	533.7
57.5°	6333.7	2015.3	585.9	596.0	681.9	567.4	552.2	515.2	469.7	442.8	439.4
60°	4384.1	1082.5	367.0	378.8	493.3	476.5	495.0	461.3	405.7	380.5	375.4
62.5°	2013.6	434.4	200.3	191.9	259.3	323.2	424.3	420.9	351.9	311.5	308.1
65°	488.2	198.7	143.1	134.7	146.5	193.6	276.1	331.7	284.5	237.4	232.3
67.5°	158.3	161.6	131.3	122.9	129.6	144.8	165.0	183.5	181.8	166.7	163.3
70°	126.3	146.5	121.2	111.1	111.1	116.2	111.1	89.2	77.4	84.2	87.5
72.5°	94.3	111.1	96.0	85.9	82.5	80.8	69.0	50.5	35.4	32.0	30.3
75°	55.6	62.3	58.9	50.5	47.1	42.1	33.7	21.9	11.8	8.4	5.1
77.5°	10.1	11.8	13.5	10.1	8.4	6.7	5.1	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)