

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: P640717

Luminaire Tested: GWS-SA5E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640717
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-SA5E-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28273.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

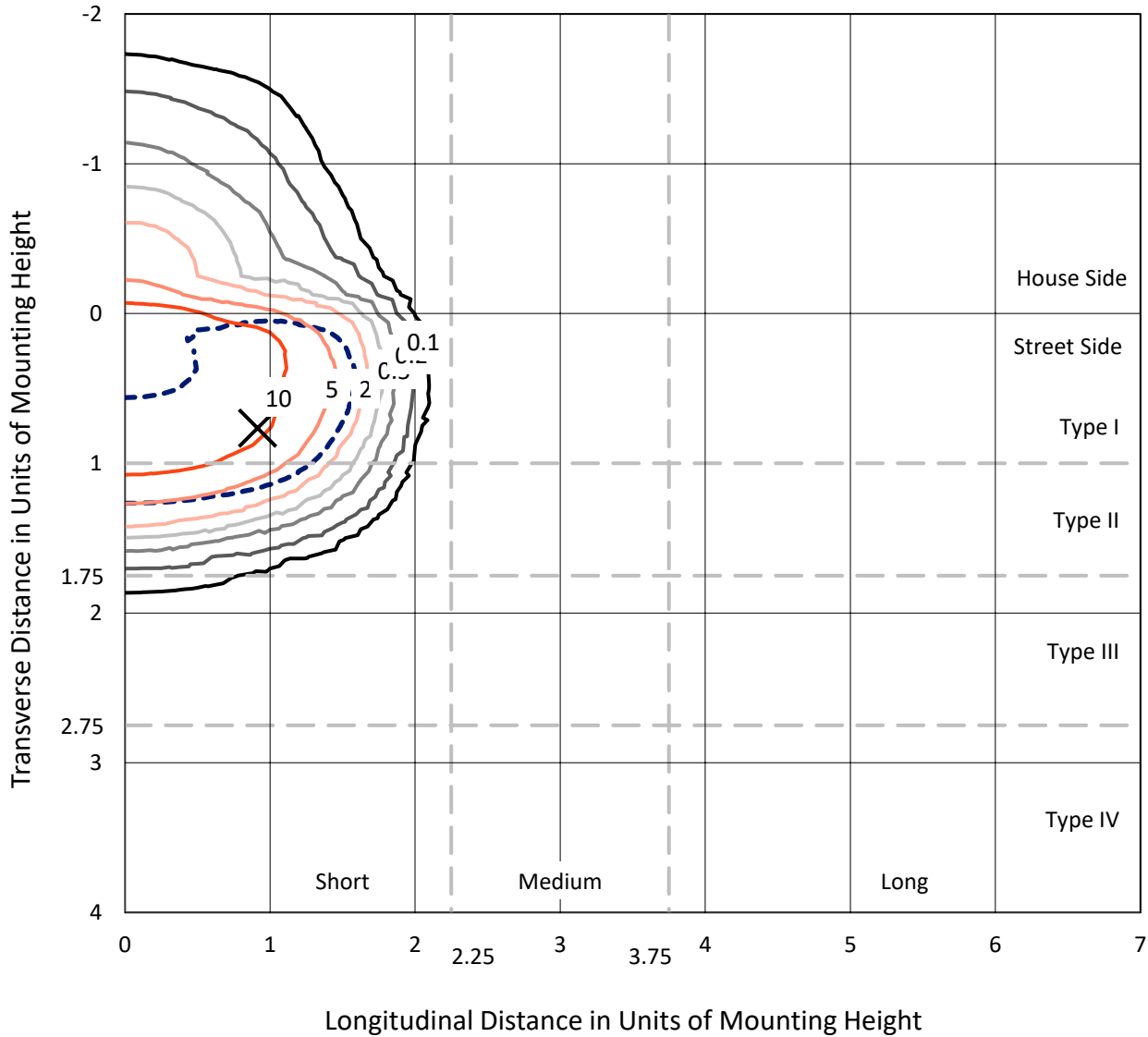
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

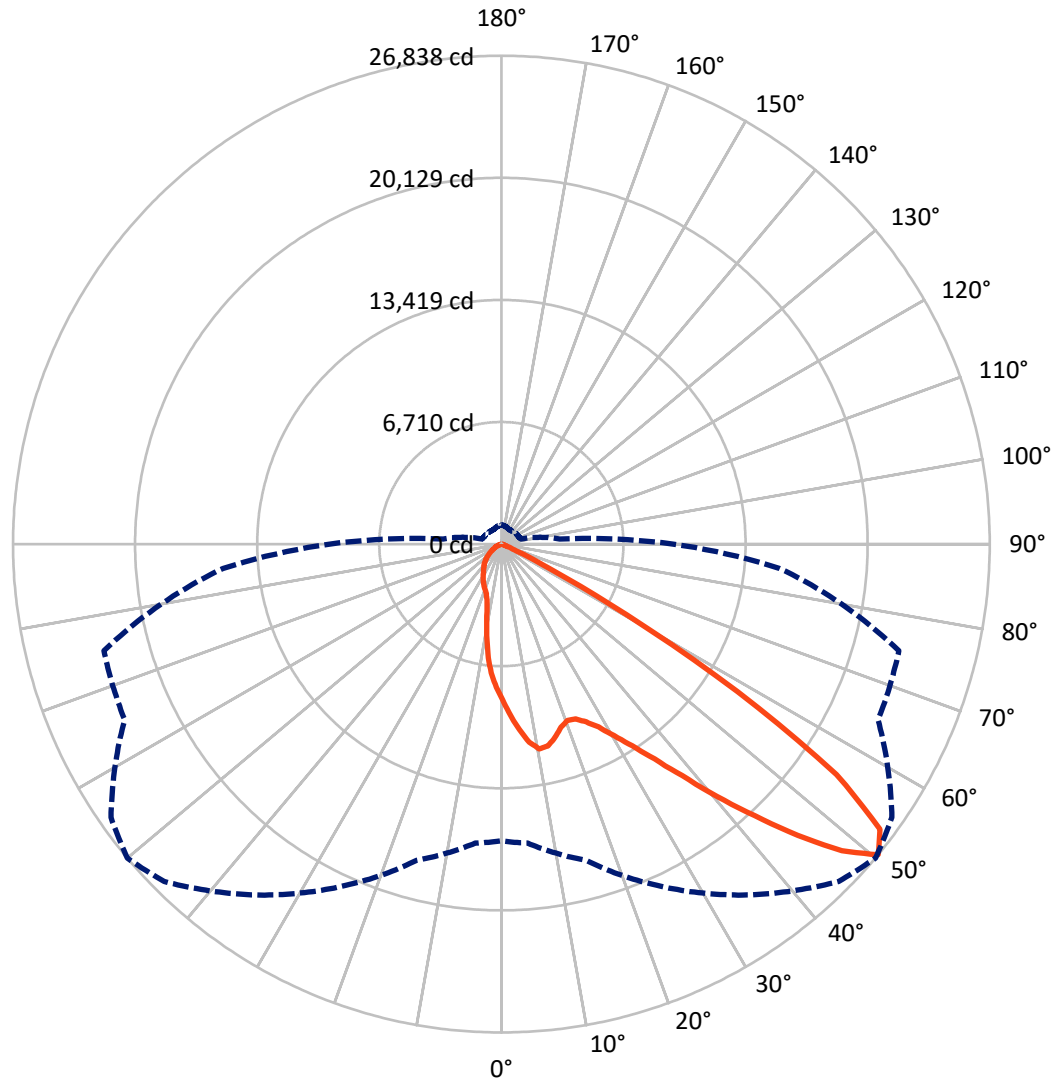
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	3632.7	0.0	3632.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	24640.8	0.0	24640.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	28273.5	0.0	28273.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.6	2.8
10°-20°	2050.1	7.3
20°-30°	3383.5	12.0
30°-40°	5583.4	19.7
40°-50°	8834.3	31.2
50°-60°	6688.6	23.7
60°-70°	837.1	3.0
70°-80°	94.7	0.3
80°-90°	7.3	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°	28273.5	100.0
0°-180°	28273.5	100.0

Coefficient of Utilization



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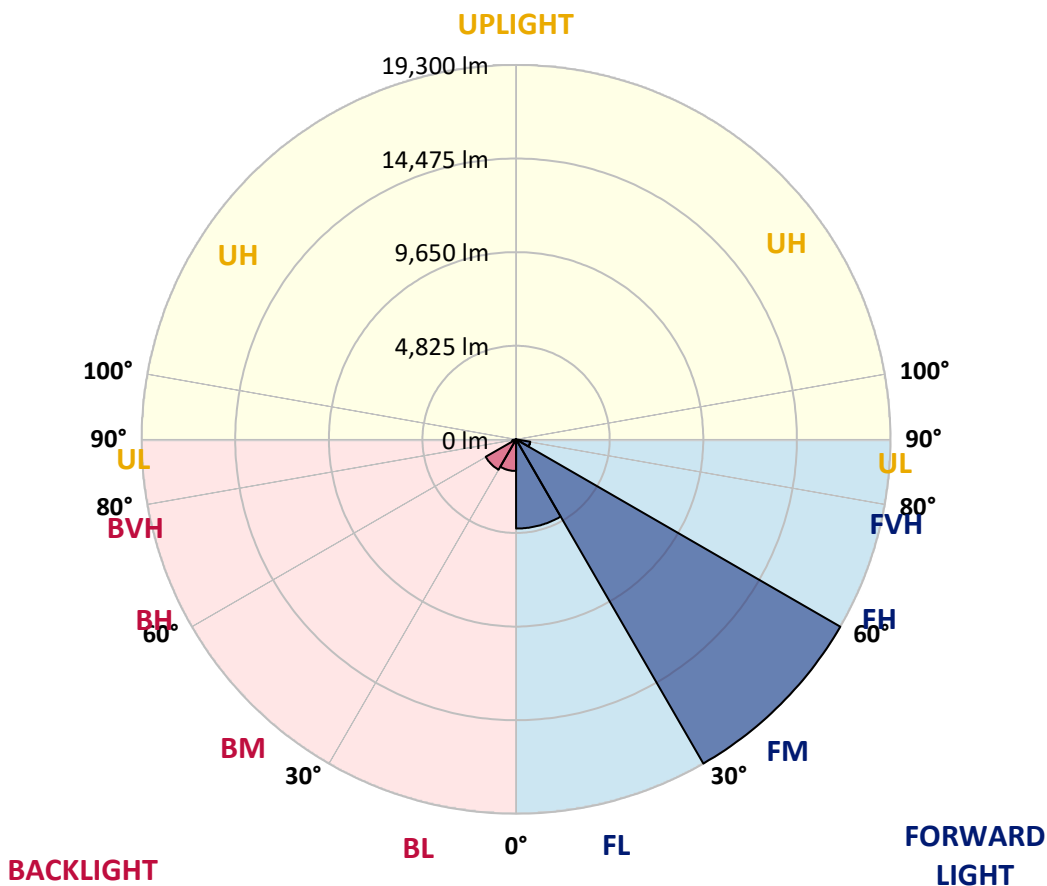
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4597.7	16.3			
FM (30°-60°)	19299.6	68.3			
FH (60°-80°)	740.1	2.6			G1/1800
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	1630.5	5.8	B3/2500		
BM (30°-60°)	1806.6	6.4	B2/2500		
BH (60°-80°)	191.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.9	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°	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7
2.5°	9760.6	9838.6	9817.1	9714.8	9604.5	9526.5	9405.4	9367.7	9093.2	8902.1	8700.3
5°	10939.3	10963.5	10936.6	10812.8	10619.0	10433.4	10234.2	10118.5	9658.3	9243.9	8821.4
7.5°	11221.9	11192.3	11243.4	11305.3	11278.4	11197.6	10987.7	10861.2	10312.3	9636.8	8996.3
10°	10339.2	10271.9	10463.0	10783.2	11119.6	11499.0	11445.2	11456.0	10950.1	10132.0	9225.1
12.5°	9168.6	9141.6	9284.3	9655.6	10315.0	11176.1	11383.3	11730.5	11534.0	10667.5	9486.1
15°	8654.6	8668.0	8754.1	8988.2	9461.9	10532.9	11030.8	11657.8	12056.1	11186.9	9774.0
17.5°	8732.6	8781.0	8778.3	8856.4	9144.3	10002.8	10584.1	11429.1	12459.8	11784.3	10105.1
20°	9262.7	9311.2	9238.5	9179.3	9276.2	9868.2	10349.9	11197.6	12731.6	12387.1	10454.9
22.5°	10056.6	10113.1	9940.9	9771.4	9709.5	10088.9	10438.7	11103.4	12938.8	12938.8	10767.1
25°	11017.3	11095.4	10829.0	10527.6	10355.3	10554.5	10818.2	11316.0	13151.4	13433.9	10979.7
27.5°	12091.1	12093.8	11865.0	11525.9	11203.0	11227.2	11386.0	11795.1	13385.5	13966.8	11146.5
30°	13299.4	13307.5	13003.4	12597.0	12190.6	12080.3	12214.9	12524.3	13872.6	14636.9	11377.9
32.5°	14860.2	14897.9	14461.9	13864.5	13337.1	13129.8	13207.9	13533.5	14647.6	15476.5	11725.1
35°	16970.0	17010.4	16367.2	15578.7	14739.1	14426.9	14505.0	14833.3	15769.8	16668.6	12279.5
37.5°	19052.9	19106.8	18455.5	17720.8	16569.1	16052.4	16133.1	16445.3	17454.4	18315.6	13167.5
40°	20492.7	20565.3	20363.5	19868.3	18800.0	18121.8	18218.7	18331.7	19308.6	20285.5	14319.3
42.5°	21251.6	21353.8	21439.9	21692.9	21130.5	20562.6	20398.5	20406.6	21195.0	22293.0	15516.8
45°	21297.3	21396.9	21838.2	22815.1	23243.0	23124.6	22825.8	22624.0	22634.8	23630.5	16265.0
47.5°	19817.2	20002.9	20829.1	22742.4	24351.7	25333.9	25183.2	24704.2	23240.3	23719.3	16184.2
50°	16310.7	16493.7	17995.3	20748.3	23544.4	26216.6	26838.3	26195.1	22844.7	22613.2	15352.7
52.5°	11846.2	11865.0	12839.2	16055.1	20272.0	24588.5	26052.5	25990.6	22241.9	21273.1	14217.0
55°	5627.1	5559.8	6655.1	9060.9	14020.6	19887.2	22354.9	23054.6	21386.1	20304.3	13337.1
57.5°	1638.9	1671.2	2158.3	3536.1	7013.0	12710.0	15309.6	16612.1	17554.0	16692.8	10344.6
60°	734.7	737.4	820.8	1076.4	2335.9	5912.3	7914.5	9526.5	10495.3	9725.6	5131.9
62.5°	532.8	535.5	567.8	608.2	793.9	2002.2	2968.3	3955.9	4028.6	2637.3	1299.8
65°	444.0	444.0	449.4	449.4	476.3	715.8	901.5	1162.6	979.6	726.6	508.6
67.5°	357.9	360.6	366.0	366.0	357.9	357.9	387.5	425.2	454.8	562.4	468.3
70°	279.9	277.2	277.2	279.9	271.8	231.4	250.3	285.3	312.2	438.6	406.4
72.5°	218.0	220.7	218.0	207.2	188.4	137.2	148.0	185.7	199.1	274.5	274.5
75°	164.2	166.8	156.1	118.4	78.0	43.1	56.5	91.5	115.7	134.6	99.6
77.5°	21.5	21.5	16.1	16.1	13.5	16.1	16.1	21.5	32.3	32.3	24.2
80°	2.7	2.7	2.7	5.4	8.1	10.8	10.8	10.8	10.8	13.5	13.5
82.5°	2.7	2.7	2.7	2.7	8.1	8.1	10.8	10.8	10.8	10.8	10.8
85°	0.0	0.0	0.0	2.7	5.4	8.1	8.1	10.8	10.8	10.8	10.8
87.5°	0.0	0.0	0.0	2.7	5.4	8.1	8.1	8.1	10.8	10.8	10.8
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°	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7	8565.7
2.5°	8579.2	8423.1	8234.7	8105.6	7922.6	7801.5	7629.2	7513.5	7414.0	7335.9	7379.0
5°	8581.9	8334.3	7949.5	7621.2	7263.3	6934.9	6582.4	6305.2	6055.0	5941.9	6003.8
7.5°	8635.7	8280.5	7691.1	7107.2	6420.9	5742.8	5107.7	4591.0	4335.3	4214.3	4251.9
10°	8740.7	8256.3	7403.2	6434.4	5320.3	4394.6	3778.3	3428.5	3285.8	3210.5	3223.9
12.5°	8837.5	8240.1	7029.1	5549.0	4198.1	3409.6	3089.4	3040.9	3070.5	3073.2	3070.5
15°	8969.4	8210.5	6566.3	4639.4	3358.5	2946.7	2954.8	3024.8	3094.8	3116.3	3110.9
17.5°	9109.3	8164.8	5968.8	3767.5	2849.9	2812.2	2906.4	3000.6	3070.5	3081.3	3084.0
20°	9254.7	8070.6	5288.0	3075.9	2613.1	2709.9	2814.9	2884.9	2936.0	2952.1	2957.5
22.5°	9321.9	7871.4	4502.2	2580.8	2454.3	2583.4	2661.5	2753.0	2769.1	2709.9	2720.7
25°	9287.0	7535.1	3735.2	2247.1	2295.5	2424.7	2540.4	2494.6	2427.4	2384.3	2397.8
27.5°	9176.6	7088.3	2984.4	2002.2	2126.0	2290.1	2303.6	2252.4	2241.7	2206.7	2217.5
30°	9058.2	6574.3	2400.5	1805.7	1953.7	2126.0	2085.6	2104.4	2107.1	2066.8	2080.2
32.5°	8985.6	6036.1	1910.7	1673.9	1843.4	1875.7	1956.4	1994.1	1996.8	1902.6	1918.7
35°	9009.8	5506.0	1617.3	1566.2	1741.1	1733.1	1846.1	1867.6	1711.5	1582.4	1595.8
37.5°	9206.2	5016.2	1450.5	1482.8	1563.5	1625.4	1711.5	1568.9	1533.9	1474.7	1482.8
40°	9572.2	4599.1	1350.9	1431.7	1442.4	1542.0	1410.1	1429.0	1431.7	1394.0	1402.1
42.5°	10000.1	4251.9	1291.7	1402.1	1375.1	1391.3	1259.4	1297.1	1337.5	1321.3	1324.0
45°	10215.4	3912.8	1240.6	1299.8	1307.9	1154.5	1124.9	1165.2	1216.4	1224.4	1227.1
47.5°	10024.3	3589.9	1186.8	1151.8	1205.6	1052.2	1017.2	1030.7	1089.9	1122.2	1127.6
50°	9440.4	3218.5	1106.0	1019.9	990.3	944.6	912.3	915.0	982.2	1038.8	1049.5
52.5°	8619.6	2831.0	974.2	863.8	796.6	831.5	839.6	823.5	885.4	941.9	952.6
55°	7823.0	2346.6	772.3	702.4	640.5	715.8	737.4	715.8	734.7	772.3	775.0
57.5°	5508.7	1326.7	592.0	581.3	530.1	613.6	648.6	616.3	584.0	608.2	613.6
60°	2553.8	694.3	454.8	454.8	441.3	527.5	586.7	540.9	479.0	489.8	497.9
62.5°	799.3	438.6	333.7	314.9	360.6	449.4	497.9	452.1	379.4	379.4	390.2
65°	452.1	376.8	263.7	242.2	293.3	360.6	390.2	341.8	277.2	271.8	271.8
67.5°	419.8	357.9	234.1	196.4	207.2	231.4	242.2	209.9	191.1	188.4	191.1
70°	347.2	298.7	188.4	134.6	126.5	123.8	129.2	121.1	115.7	118.4	126.5
72.5°	215.3	180.3	118.4	80.7	70.0	67.3	67.3	67.3	64.6	64.6	64.6
75°	78.0	67.3	53.8	40.4	35.0	32.3	32.3	35.0	32.3	29.6	26.9
77.5°	24.2	21.5	21.5	21.5	18.8	16.1	13.5	13.5	10.8	8.1	8.1
80°	13.5	13.5	13.5	13.5	10.8	10.8	8.1	5.4	2.7	2.7	0.0
82.5°	13.5	13.5	13.5	10.8	10.8	10.8	8.1	5.4	2.7	0.0	0.0
85°	10.8	10.8	10.8	10.8	10.8	10.8	8.1	5.4	2.7	0.0	0.0
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	8.1	5.4	2.7	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)