

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: P640277

Luminaire Tested: GWS-SA5D-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640277
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23143.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

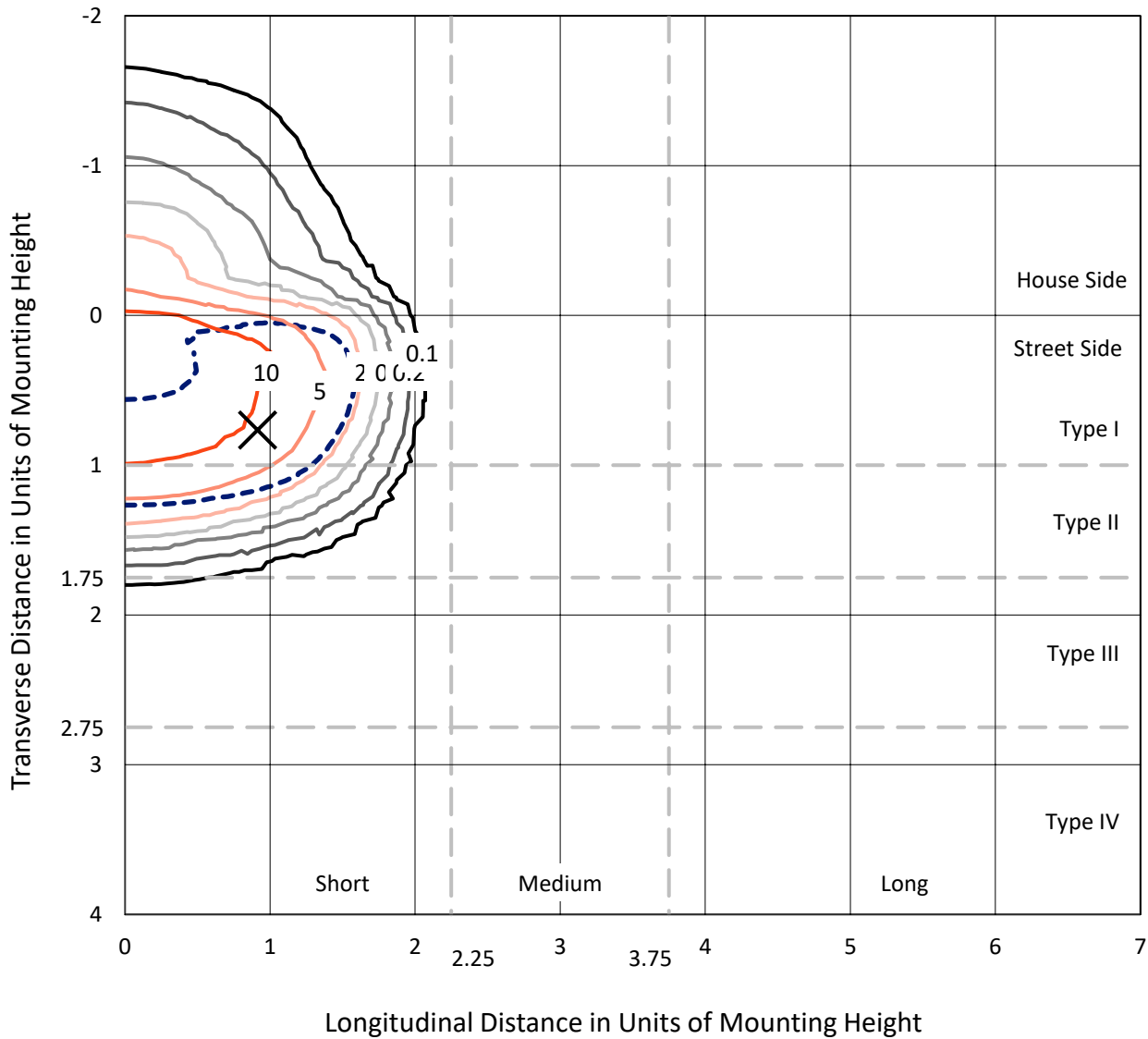
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

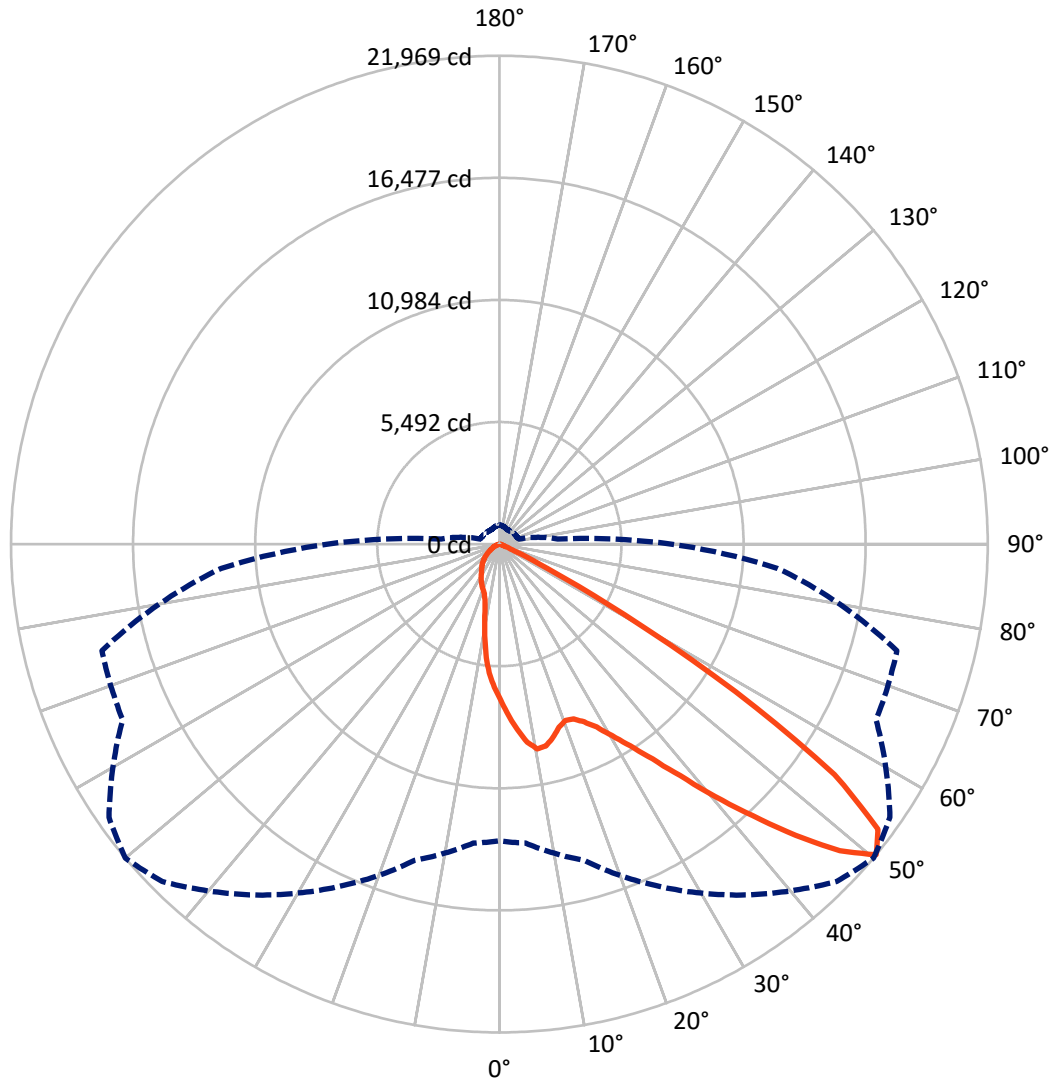
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2973.6	0.0	2973.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20170.0	0.0	20170.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	23143.6	0.0	23143.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.4	2.8
10°-20°	1678.2	7.3
20°-30°	2769.6	12.0
30°-40°	4570.4	19.7
40°-50°	7231.4	31.2
50°-60°	5475.0	23.7
60°-70°	685.2	3.0
70°-80°	77.5	0.3
80°-90°	5.9	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°	23143.6	100.0
0°-180°	23143.6	100.0

Coefficient of Utilization



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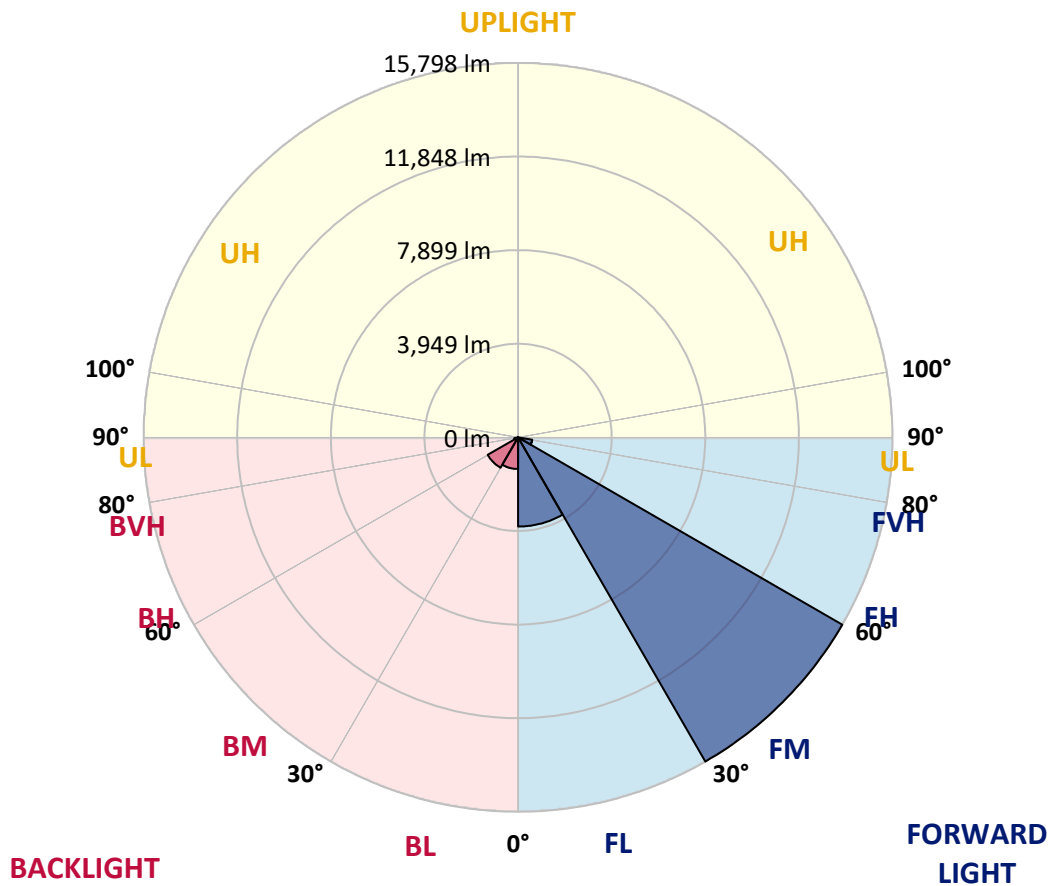
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.5	16.3			
FM (30°-60°)	15797.9	68.3			
FH (60°-80°)	605.8	2.6			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1334.7	5.8	B3/2500		
BM (30°-60°)	1478.8	6.4	B2/2500		
BH (60°-80°)	156.9	0.7	B1/500		G1/500
BVH (80°-90°)	3.2	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°	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6
2.5°	7989.6	8053.5	8035.9	7952.2	7861.9	7798.0	7698.9	7668.0	7443.3	7286.9	7121.7
5°	8954.5	8974.3	8952.3	8850.9	8692.3	8540.4	8377.3	8282.6	7905.9	7566.7	7220.9
7.5°	9185.8	9161.5	9203.4	9254.1	9232.0	9166.0	8994.1	8890.6	8441.2	7888.3	7364.0
10°	8463.3	8408.2	8564.6	8826.7	9102.1	9412.7	9368.6	9377.4	8963.3	8293.6	7551.3
12.5°	7505.0	7483.0	7599.7	7903.7	8443.4	9148.3	9317.9	9602.1	9441.3	8732.0	7765.0
15°	7084.3	7095.3	7165.8	7357.4	7745.1	8621.9	9029.4	9542.6	9868.7	9157.1	8000.7
17.5°	7148.2	7187.8	7185.6	7249.5	7485.2	8187.9	8663.7	9355.4	10199.1	9646.2	8271.6
20°	7582.1	7621.8	7562.3	7513.8	7593.1	8077.8	8472.1	9166.0	10421.6	10139.6	8558.0
22.5°	8232.0	8278.2	8137.2	7998.5	7947.8	8258.4	8544.8	9088.9	10591.2	10591.2	8813.5
25°	9018.4	9082.2	8864.2	8617.4	8476.5	8639.5	8855.4	9262.9	10765.2	10996.5	8987.5
27.5°	9897.3	9899.5	9712.3	9434.7	9170.4	9190.2	9320.2	9655.0	10956.8	11432.7	9124.1
30°	10886.4	10893.0	10644.0	10311.4	9978.8	9888.5	9998.6	10251.9	11355.6	11981.2	9313.5
32.5°	12164.0	12194.8	11838.0	11349.0	10917.2	10747.6	10811.5	11078.0	11990.0	12668.4	9597.7
35°	13891.0	13924.1	13397.6	12752.2	12064.9	11809.3	11873.2	12142.0	12908.6	13644.3	10051.5
37.5°	15596.0	15640.1	15107.0	14505.6	13562.8	13139.8	13205.9	13461.5	14287.5	14992.4	10778.4
40°	16774.5	16834.0	16668.8	16263.5	15388.9	14833.8	14913.1	15005.6	15805.3	16604.9	11721.2
42.5°	17395.7	17479.4	17549.9	17757.0	17296.6	16831.8	16697.4	16704.0	17349.4	18248.2	12701.5
45°	17433.2	17514.7	17875.9	18675.5	19025.8	18928.9	18684.4	18519.1	18528.0	19343.0	13313.9
47.5°	16221.6	16373.6	17049.9	18616.1	19933.4	20737.4	20614.0	20221.9	19023.6	19415.7	13247.8
50°	13351.3	13501.1	14730.3	16983.8	19272.5	21459.9	21968.8	21442.3	18699.8	18510.3	12567.1
52.5°	9696.8	9712.3	10509.7	13142.1	16593.9	20127.2	21325.5	21274.9	18206.3	17413.3	11637.5
55°	4606.1	4551.0	5447.6	7416.9	11476.7	16278.9	18298.9	18871.6	17505.8	16620.3	10917.2
57.5°	1341.5	1368.0	1766.7	2894.5	5740.6	10403.9	12531.9	13598.0	14369.0	13664.1	8467.7
60°	601.4	603.6	671.9	881.1	1912.1	4839.6	6478.5	7798.0	8591.0	7961.0	4200.8
62.5°	436.2	438.4	464.8	497.8	649.8	1638.9	2429.7	3238.2	3297.6	2158.8	1064.0
65°	363.5	363.5	367.9	367.9	389.9	586.0	737.9	951.6	801.8	594.8	416.3
67.5°	293.0	295.2	299.6	299.6	293.0	293.0	317.2	348.0	372.3	460.4	383.3
70°	229.1	226.9	226.9	229.1	222.5	189.4	204.9	233.5	255.5	359.1	332.6
72.5°	178.4	180.6	178.4	169.6	154.2	112.3	121.2	152.0	163.0	224.7	224.7
75°	134.4	136.6	127.8	96.9	63.9	35.2	46.3	74.9	94.7	110.1	81.5
77.5°	17.6	17.6	13.2	13.2	11.0	13.2	13.2	17.6	26.4	26.4	19.8
80°	2.2	2.2	2.2	4.4	6.6	8.8	8.8	8.8	8.8	11.0	11.0
82.5°	2.2	2.2	2.2	2.2	6.6	6.6	8.8	8.8	8.8	8.8	8.8
85°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	8.8	8.8	8.8	8.8
87.5°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	6.6	8.8	8.8	8.8
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°	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6	7011.6
2.5°	7022.6	6894.8	6740.6	6634.9	6485.1	6386.0	6245.0	6150.3	6068.8	6004.9	6040.1
5°	7024.8	6822.1	6507.1	6238.4	5945.4	5676.7	5388.1	5161.2	4956.4	4863.8	4914.5
7.5°	7068.9	6778.1	6295.7	5817.7	5255.9	4700.8	4181.0	3758.0	3548.8	3449.6	3480.5
10°	7154.8	6758.3	6060.0	5267.0	4355.0	3597.2	3092.8	2806.4	2689.6	2628.0	2639.0
12.5°	7234.1	6745.0	5753.8	4542.2	3436.4	2791.0	2528.8	2489.2	2513.4	2515.6	2513.4
15°	7342.0	6720.8	5374.9	3797.7	2749.1	2412.1	2418.7	2476.0	2533.2	2550.9	2546.5
17.5°	7456.6	6683.4	4885.9	3084.0	2332.8	2302.0	2379.1	2456.1	2513.4	2522.2	2524.4
20°	7575.5	6606.3	4328.6	2517.8	2138.9	2218.2	2304.2	2361.4	2403.3	2416.5	2420.9
22.5°	7630.6	6443.3	3685.3	2112.5	2009.0	2114.7	2178.6	2253.5	2266.7	2218.2	2227.1
25°	7601.9	6167.9	3057.5	1839.4	1879.0	1984.7	2079.5	2042.0	1986.9	1951.7	1962.7
27.5°	7511.6	5802.2	2442.9	1638.9	1740.2	1874.6	1885.6	1843.8	1835.0	1806.3	1815.1
30°	7414.7	5381.5	1964.9	1478.1	1599.3	1740.2	1707.2	1722.6	1724.8	1691.8	1702.8
32.5°	7355.2	4940.9	1564.0	1370.2	1508.9	1535.4	1601.5	1632.3	1634.5	1557.4	1570.6
35°	7375.1	4507.0	1323.9	1282.0	1425.2	1418.6	1511.1	1528.8	1401.0	1295.3	1306.3
37.5°	7535.9	4106.1	1187.3	1213.8	1279.8	1330.5	1401.0	1284.2	1255.6	1207.1	1213.8
40°	7835.4	3764.6	1105.8	1171.9	1180.7	1262.2	1154.3	1169.7	1171.9	1141.1	1147.7
42.5°	8185.7	3480.5	1057.4	1147.7	1125.6	1138.9	1030.9	1061.8	1094.8	1081.6	1083.8
45°	8361.9	3202.9	1015.5	1064.0	1070.6	945.0	920.8	953.8	995.7	1002.3	1004.5
47.5°	8205.5	2938.6	971.4	942.8	986.9	861.3	832.7	843.7	892.1	918.6	923.0
50°	7727.5	2634.6	905.4	834.9	810.6	773.2	746.8	749.0	804.0	850.3	859.1
52.5°	7055.6	2317.4	797.4	707.1	652.0	680.7	687.3	674.1	724.7	771.0	779.8
55°	6403.6	1920.9	632.2	574.9	524.3	586.0	603.6	586.0	601.4	632.2	634.4
57.5°	4509.2	1086.0	484.6	475.8	434.0	502.2	530.9	504.4	478.0	497.8	502.2
60°	2090.5	568.3	372.3	372.3	361.3	431.8	480.2	442.8	392.1	400.9	407.5
62.5°	654.2	359.1	273.2	257.7	295.2	367.9	407.5	370.1	310.6	310.6	319.4
65°	370.1	308.4	215.9	198.3	240.1	295.2	319.4	279.8	226.9	222.5	222.5
67.5°	343.6	293.0	191.6	160.8	169.6	189.4	198.3	171.8	156.4	154.2	156.4
70°	284.2	244.5	154.2	110.1	103.5	101.3	105.7	99.1	94.7	96.9	103.5
72.5°	176.2	147.6	96.9	66.1	57.3	55.1	55.1	55.1	52.9	52.9	52.9
75°	63.9	55.1	44.1	33.0	28.6	26.4	26.4	28.6	26.4	24.2	22.0
77.5°	19.8	17.6	17.6	17.6	15.4	13.2	11.0	11.0	8.8	6.6	6.6
80°	11.0	11.0	11.0	11.0	8.8	8.8	6.6	4.4	2.2	2.2	0.0
82.5°	11.0	11.0	11.0	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
85°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	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)