

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: P637072

Luminaire Tested: GWS-SA4C-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11193.3 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

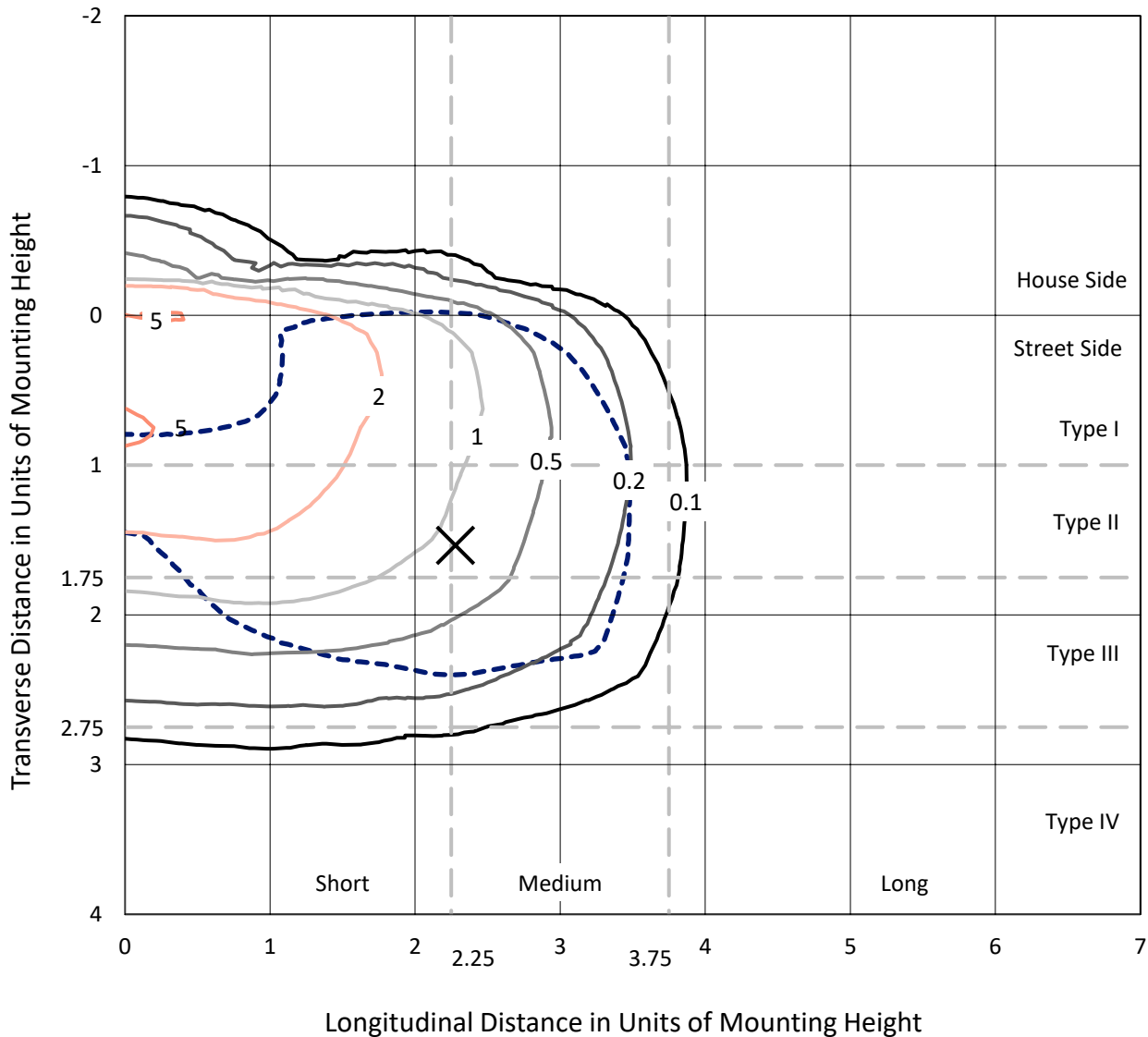
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

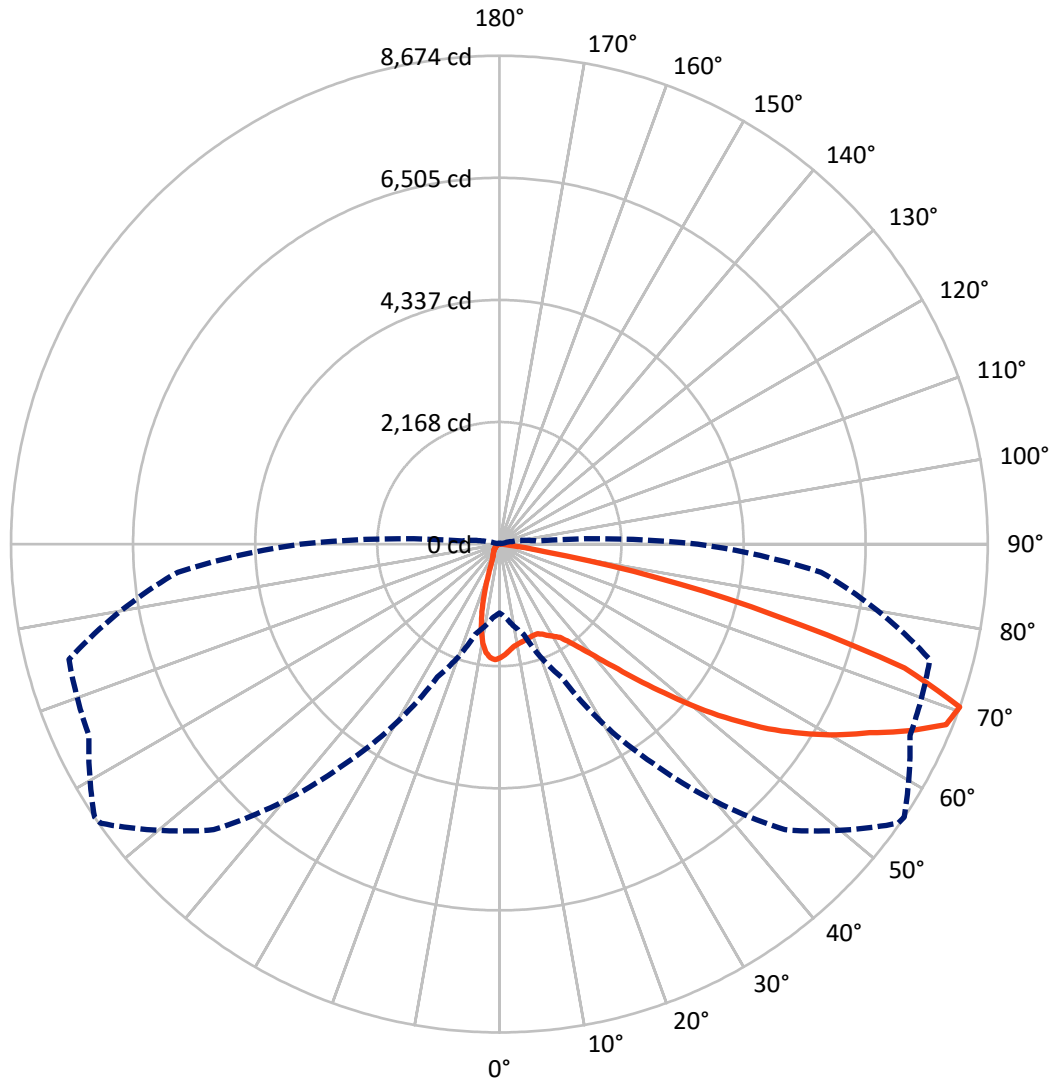
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.4	0.0	1005.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	10187.9	0.0	10187.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	11193.3	0.0	11193.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.5
10°-20°	389.7	3.5
20°-30°	617.3	5.5
30°-40°	1064.6	9.5
40°-50°	1797.8	16.1
50°-60°	2641.5	23.6
60°-70°	3131.6	28.0
70°-80°	1335.5	11.9
80°-90°	41.9	0.4
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°	11193.3	100.0
0°-180°	11193.3	100.0

Coefficient of Utilization



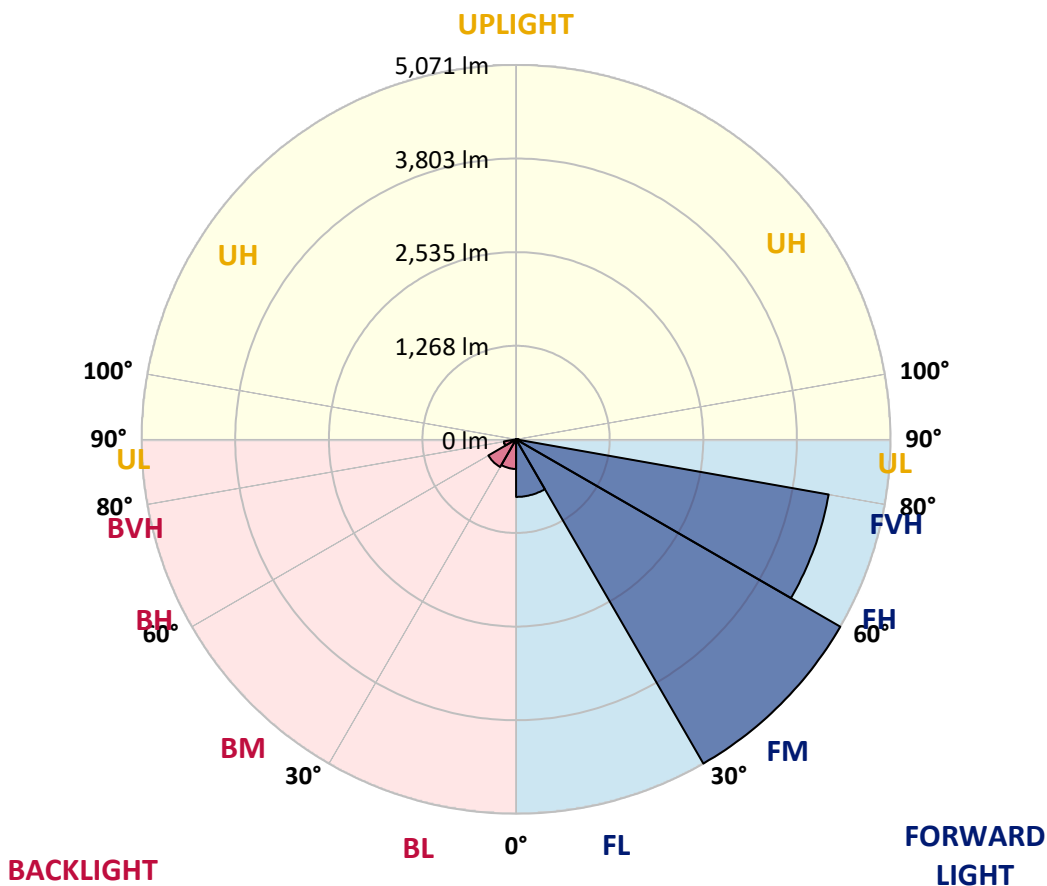
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.0	7.0			
FM (30°-60°)	5070.8	45.3			
FH (60°-80°)	4299.4	38.4			G2/5000
FVH (80°-90°)	37.7	0.3			G1/100
BL (0°-30°)	400.4	3.6	B1/500		
BM (30°-60°)	433.0	3.9	B1/1000		
BH (60°-80°)	167.7	1.5	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	1878.8	1875.8	1877.8	1893.2	1921.9	1935.2	1957.8	1961.9	1980.3	2003.9	2013.1
5°	1756.9	1746.6	1751.7	1773.3	1806.1	1843.0	1885.0	1896.3	1942.4	1994.7	2033.6
7.5°	1645.1	1633.9	1646.2	1680.0	1726.1	1766.1	1828.6	1835.8	1909.6	2001.8	2072.6
10°	1469.9	1472.9	1497.5	1557.0	1627.7	1710.7	1794.8	1805.0	1896.3	2025.4	2135.1
12.5°	1335.6	1328.4	1355.1	1422.7	1522.1	1643.1	1769.2	1782.5	1897.3	2061.3	2215.0
15°	1273.1	1271.0	1282.3	1331.5	1427.8	1570.3	1745.6	1763.0	1910.6	2094.1	2290.9
17.5°	1275.1	1272.0	1271.0	1299.7	1371.5	1516.0	1720.0	1742.5	1921.9	2130.0	2370.9
20°	1364.3	1349.9	1324.3	1311.0	1354.0	1481.1	1702.5	1728.2	1938.3	2167.9	2455.9
22.5°	1550.8	1556.0	1487.3	1415.5	1395.0	1485.2	1700.5	1730.2	1974.2	2227.3	2560.5
25°	1923.9	1915.7	1788.6	1627.7	1516.0	1532.4	1736.4	1772.2	2044.9	2312.4	2658.9
27.5°	2391.4	2398.5	2224.3	1968.0	1734.3	1629.8	1802.0	1837.8	2126.9	2365.7	2724.5
30°	2900.8	2893.6	2707.1	2423.1	2043.9	1791.7	1867.6	1899.3	2167.9	2394.4	2792.1
32.5°	3382.5	3366.1	3181.6	2884.4	2438.5	2046.9	1957.8	1976.2	2222.2	2457.0	2883.4
35°	3793.6	3792.5	3631.6	3314.9	2844.4	2366.8	2112.5	2127.9	2323.7	2556.4	3017.6
37.5°	4217.9	4203.6	4023.2	3734.1	3261.6	2717.3	2349.3	2343.2	2483.6	2703.0	3182.7
40°	4566.4	4557.2	4418.8	4141.0	3695.2	3104.8	2636.3	2617.9	2673.2	2905.9	3412.3
42.5°	4824.7	4825.8	4782.7	4613.6	4154.4	3552.7	2997.1	2968.4	2967.4	3212.4	3715.7
45°	5020.5	5033.8	5098.4	5072.8	4696.6	4074.4	3459.4	3429.7	3379.5	3610.1	4063.1
47.5°	5111.7	5129.2	5323.9	5426.4	5171.2	4592.0	4009.8	3947.3	3848.9	4139.0	4451.6
50°	5102.5	5133.3	5404.9	5716.5	5601.7	5116.9	4609.5	4579.7	4418.8	4698.7	4836.0
52.5°	4893.4	4959.0	5410.0	5892.8	5932.8	5600.7	5229.6	5174.3	5096.4	5282.9	5196.8
55°	4325.5	4405.5	5193.7	5949.2	6191.1	6023.0	5836.4	5791.3	5662.2	5834.4	5511.5
57.5°	4017.0	4085.7	4738.6	5921.5	6410.4	6413.5	6376.6	6339.7	6233.1	6379.7	5880.5
60°	3831.5	3900.2	4495.7	5820.0	6609.3	6825.5	6884.0	6879.9	6726.1	6999.8	6313.0
62.5°	3559.9	3654.2	4242.5	5556.6	6750.7	7231.5	7407.8	7380.1	7208.9	7645.6	6741.5
65°	3011.5	3093.5	3723.9	5122.0	6667.7	7567.7	7975.6	7990.0	7792.1	8253.4	7079.8
67.5°	2111.5	2172.0	2798.3	4209.7	6103.9	7678.4	8556.8	8555.8	8218.5	8565.0	6930.1
70°	1223.9	1306.9	1653.3	2602.5	4748.9	7175.1	8643.9	8673.6	8045.3	7914.1	5734.9
72.5°	473.6	542.2	936.9	1382.7	2476.4	5496.1	7435.4	7522.6	6733.3	6105.0	3991.4
75°	141.5	157.9	440.8	736.0	994.3	2654.8	5033.8	5058.4	4618.7	3807.9	2045.9
77.5°	105.6	116.9	192.7	372.1	348.5	804.6	2604.6	2844.4	2451.8	1360.2	563.8
80°	71.8	85.1	137.4	181.4	129.2	214.2	731.9	803.6	748.3	305.5	141.5
82.5°	31.8	41.0	97.4	91.2	47.2	61.5	225.5	239.9	154.8	92.3	49.2
85°	3.1	4.1	36.9	40.0	17.4	14.4	47.2	47.2	33.8	31.8	20.5
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	4.1	5.1	6.2	8.2	10.3
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°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	2036.7	2024.4	2039.8	2052.1	2055.1	2032.6	2019.3	1999.8	1995.7	1996.7	1991.6
5°	2064.4	2058.2	2069.5	2056.2	2021.3	1955.7	1899.3	1836.8	1803.0	1783.5	1781.5
7.5°	2115.6	2112.5	2100.2	2039.8	1931.1	1785.6	1645.1	1507.8	1422.7	1392.0	1386.8
10°	2191.5	2185.3	2135.1	1991.6	1759.9	1480.1	1244.4	1047.6	927.6	892.8	849.7
12.5°	2278.6	2266.3	2156.6	1888.1	1501.6	1114.2	820.0	599.6	496.1	465.4	465.4
15°	2362.7	2336.0	2144.3	1716.9	1183.9	724.7	458.2	346.5	314.7	306.5	306.5
17.5°	2448.8	2397.5	2096.1	1483.2	818.0	428.5	305.5	283.9	279.8	280.9	281.9
20°	2529.7	2449.8	2011.1	1202.3	521.7	299.3	273.7	268.6	266.5	268.6	267.5
22.5°	2617.9	2498.0	1881.9	895.9	339.3	269.6	260.4	256.3	254.2	257.3	257.3
25°	2705.0	2532.8	1710.7	602.7	269.6	251.1	246.0	241.9	239.9	240.9	240.9
27.5°	2750.1	2519.5	1486.3	384.4	241.9	232.7	227.6	222.4	219.4	218.3	219.4
30°	2780.9	2478.5	1211.6	273.7	219.4	208.1	203.0	198.9	190.7	185.5	187.6
32.5°	2829.0	2437.5	913.3	229.6	200.9	183.5	175.3	165.0	153.8	148.6	148.6
35°	2886.4	2381.1	640.6	207.1	181.4	163.0	147.6	130.2	116.9	112.8	112.8
37.5°	2962.3	2327.8	426.4	191.7	165.0	145.6	124.0	103.5	89.2	87.1	86.1
40°	3076.1	2282.7	300.3	180.4	150.7	127.1	101.5	80.0	69.7	66.6	66.6
42.5°	3223.7	2236.6	237.8	169.1	138.4	109.7	81.0	63.6	55.4	53.3	52.3
45°	3406.1	2182.2	207.1	158.9	126.1	91.2	64.6	53.3	47.2	45.1	45.1
47.5°	3603.9	2108.4	192.7	145.6	111.7	73.8	54.3	46.1	43.1	42.0	41.0
50°	3798.7	2009.0	180.4	133.3	95.3	60.5	47.2	42.0	40.0	39.0	39.0
52.5°	3968.8	1893.2	165.0	118.9	77.9	52.3	42.0	39.0	36.9	34.9	33.8
55°	4114.4	1767.1	145.6	102.5	63.6	46.1	39.0	35.9	33.8	31.8	30.8
57.5°	4302.0	1695.4	116.9	83.0	52.3	41.0	35.9	32.8	30.8	27.7	27.7
60°	4510.0	1643.1	87.1	65.6	45.1	37.9	32.8	29.7	27.7	24.6	24.6
62.5°	4677.1	1565.2	68.7	53.3	39.0	33.8	29.7	26.7	24.6	21.5	21.5
65°	4740.7	1404.3	56.4	42.0	31.8	29.7	26.7	24.6	21.5	18.5	18.5
67.5°	4453.7	1082.4	47.2	33.8	26.7	25.6	23.6	22.6	18.5	16.4	15.4
70°	3527.1	660.1	39.0	27.7	22.6	21.5	21.5	19.5	16.4	15.4	14.4
72.5°	2417.0	340.3	31.8	22.6	19.5	19.5	18.5	17.4	15.4	14.4	14.4
75°	1255.6	113.8	24.6	17.4	15.4	16.4	16.4	15.4	14.4	14.4	13.3
77.5°	359.8	51.3	18.5	13.3	12.3	12.3	13.3	13.3	13.3	12.3	12.3
80°	93.3	29.7	13.3	10.3	10.3	10.3	10.3	11.3	12.3	11.3	11.3
82.5°	37.9	16.4	9.2	8.2	8.2	8.2	8.2	9.2	10.3	10.3	10.3
85°	23.6	8.2	7.2	7.2	7.2	6.2	6.2	7.2	7.2	8.2	8.2
87.5°	14.4	6.2	6.2	6.2	6.2	5.1	5.1	5.1	5.1	5.1	5.1
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)