

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: P636907

Luminaire Tested: GWS-SA4B-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636907
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-SA4B-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11431.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

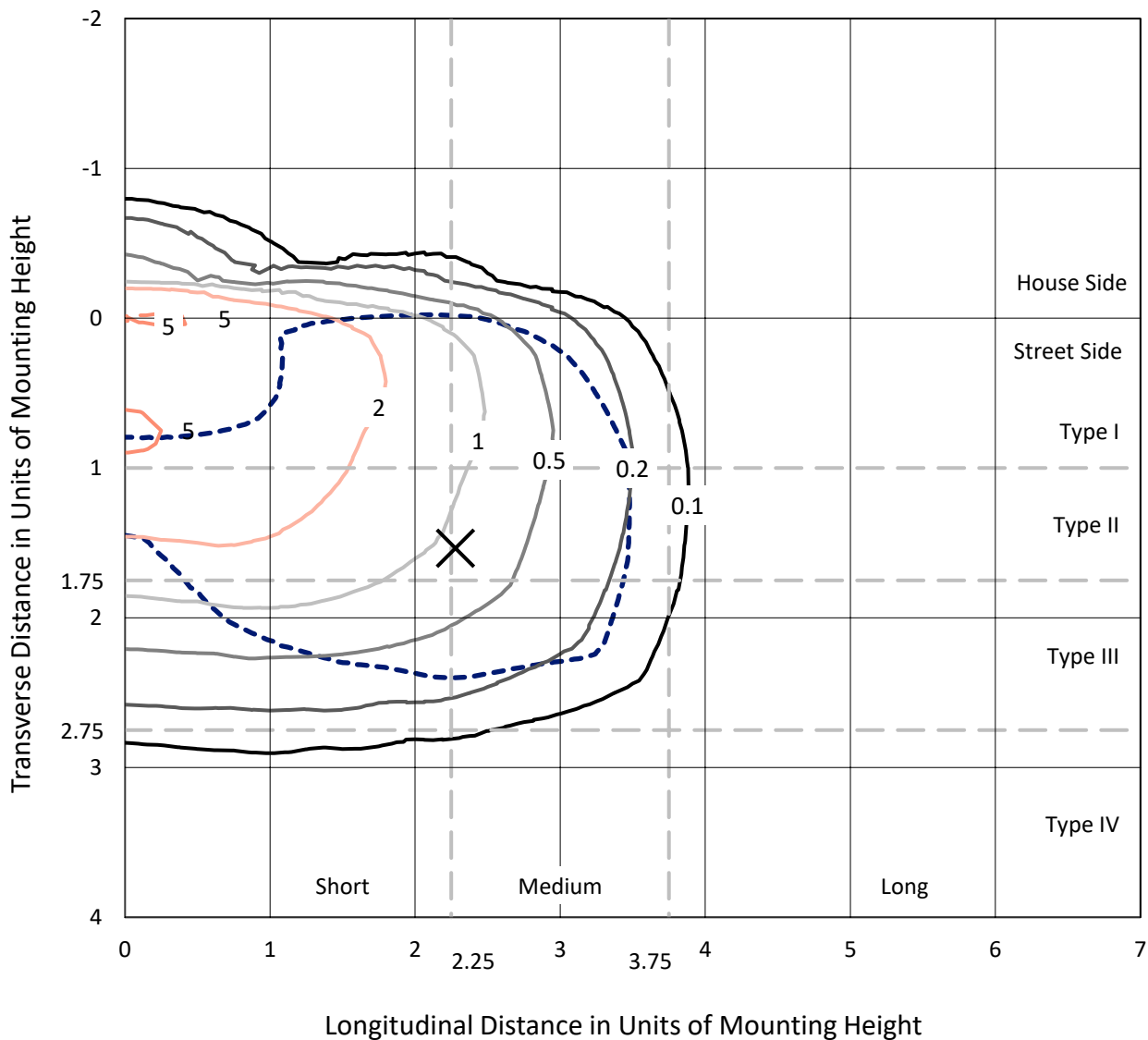
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

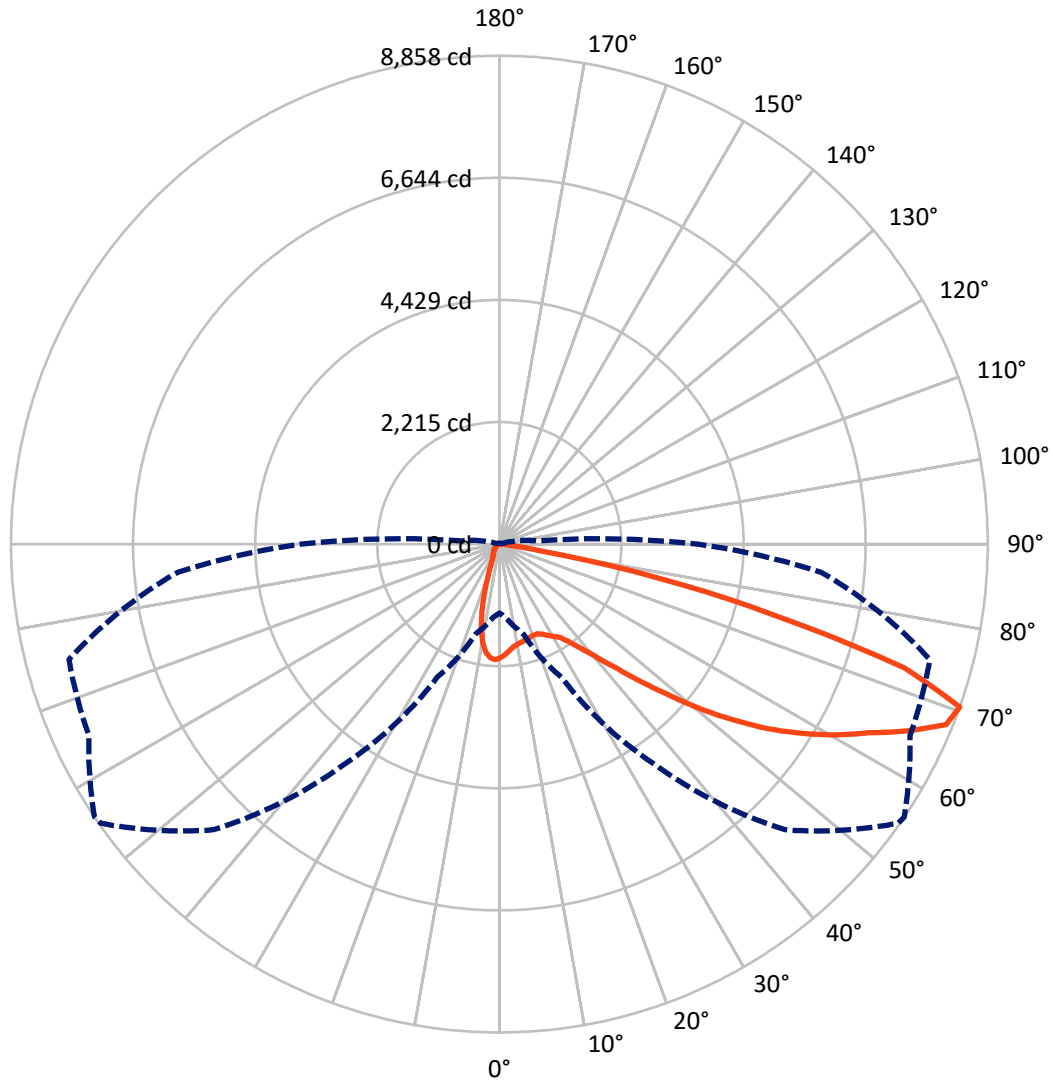
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	1026.8	0.0	1026.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	10404.8	0.0	10404.8
	% Fixture	91.0	0.0	91.0
Total	Lumens	11431.6	0.0	11431.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.5
10°-20°	398.0	3.5
20°-30°	630.5	5.5
30°-40°	1087.3	9.5
40°-50°	1836.0	16.1
50°-60°	2697.7	23.6
60°-70°	3198.3	28.0
70°-80°	1363.9	11.9
80°-90°	42.8	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°	11431.6	100.0
0°-180°	11431.6	100.0

Coefficient of Utilization



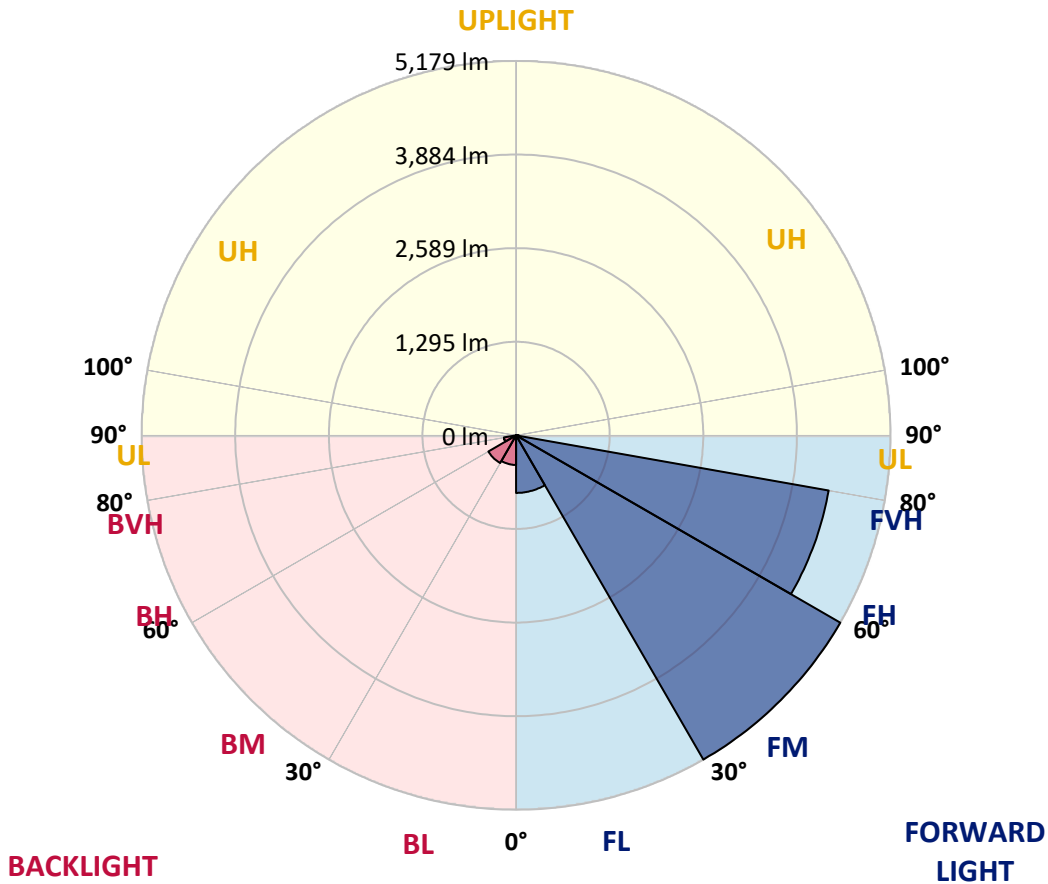
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.6	7.0			
FM (30°-60°)	5178.8	45.3			
FH (60°-80°)	4391.0	38.4			G2/5000
FVH (80°-90°)	38.5	0.3			G1/100
BL (0°-30°)	408.9	3.6	B1/500		
BM (30°-60°)	442.3	3.9	B1/1000		
BH (60°-80°)	171.3	1.5	B1/500		G1/500
BVH (80°-90°)	4.4	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°	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2
2.5°	1918.9	1915.7	1917.8	1933.5	1962.8	1976.4	1999.5	2003.7	2022.5	2046.6	2056.0
5°	1794.3	1783.8	1789.1	1811.0	1844.5	1882.2	1925.1	1936.7	1983.8	2037.2	2076.9
7.5°	1680.2	1668.7	1681.2	1715.8	1762.9	1803.7	1867.6	1874.9	1950.3	2044.5	2116.7
10°	1501.2	1504.3	1529.4	1590.2	1662.4	1747.2	1833.0	1843.5	1936.7	2068.6	2180.6
12.5°	1364.0	1356.7	1383.9	1453.0	1554.6	1678.1	1806.8	1820.5	1937.7	2105.2	2262.2
15°	1300.2	1298.1	1309.6	1359.8	1458.3	1603.8	1782.8	1800.6	1951.3	2138.7	2339.7
17.5°	1302.3	1299.1	1298.1	1327.4	1400.7	1548.3	1756.6	1779.6	1962.8	2175.3	2421.3
20°	1393.3	1378.7	1352.5	1338.9	1382.9	1512.7	1738.8	1765.0	1979.6	2214.1	2508.2
22.5°	1583.9	1589.1	1519.0	1445.7	1424.8	1516.9	1736.7	1767.1	2016.2	2274.8	2615.0
25°	1964.9	1956.5	1826.7	1662.4	1548.3	1565.0	1773.4	1810.0	2088.5	2361.7	2715.5
27.5°	2442.3	2449.6	2271.6	2009.9	1771.3	1664.5	1840.3	1877.0	2172.2	2416.1	2782.5
30°	2962.6	2955.2	2764.7	2474.7	2087.4	1829.9	1907.3	1939.8	2214.1	2445.4	2851.6
32.5°	3454.6	3437.8	3249.4	2945.8	2490.4	2090.5	1999.5	2018.3	2269.6	2509.3	2944.8
35°	3874.4	3873.3	3709.0	3385.5	2905.0	2417.2	2157.5	2173.2	2373.2	2610.8	3081.9
37.5°	4307.8	4293.1	4108.9	3813.6	3331.1	2775.2	2399.4	2393.1	2536.5	2760.5	3250.4
40°	4663.7	4654.3	4512.9	4229.2	3773.9	3170.9	2692.5	2673.6	2730.2	2967.8	3484.9
42.5°	4927.5	4928.5	4884.6	4711.8	4242.9	3628.4	3061.0	3031.7	3030.6	3280.8	3794.8
45°	5127.4	5141.0	5207.0	5180.8	4796.6	4161.2	3533.1	3502.7	3451.4	3687.0	4149.7
47.5°	5220.6	5238.4	5437.3	5542.0	5281.3	4689.9	4095.2	4031.4	3930.9	4227.1	4546.4
50°	5211.2	5242.6	5520.0	5838.2	5721.0	5225.8	4707.6	4677.3	4512.9	4798.7	4939.0
52.5°	4997.6	5064.6	5525.2	6018.3	6059.1	5719.9	5341.0	5284.5	5204.9	5395.4	5307.5
55°	4417.7	4499.3	5304.3	6075.9	6322.9	6151.2	5960.7	5914.7	5782.8	5958.6	5628.9
57.5°	4102.6	4172.7	4839.6	6047.6	6547.0	6550.1	6512.4	6474.7	6365.8	6515.5	6005.7
60°	3913.1	3983.2	4591.5	5944.0	6750.0	6970.9	7030.6	7026.4	6869.4	7148.9	6447.5
62.5°	3635.7	3732.0	4332.9	5674.9	6894.5	7385.5	7565.5	7537.3	7362.4	7808.4	6885.1
65°	3075.6	3159.4	3803.2	5231.1	6809.7	7728.8	8145.5	8160.1	7958.1	8429.2	7230.5
67.5°	2156.5	2218.3	2857.9	4299.4	6233.9	7841.9	8739.0	8738.0	8393.6	8747.4	7077.7
70°	1249.9	1334.7	1688.6	2657.9	4850.0	7327.9	8828.0	8858.4	8216.7	8082.7	5857.1
72.5°	483.6	553.8	956.8	1412.2	2529.2	5613.2	7593.8	7682.8	6876.7	6235.0	4076.4
75°	144.5	161.2	450.1	751.6	1015.4	2711.3	5141.0	5166.2	4717.1	3889.0	2089.5
77.5°	107.8	119.3	196.8	380.0	355.9	821.8	2660.0	2905.0	2504.0	1389.2	575.8
80°	73.3	86.9	140.3	185.3	131.9	218.8	747.4	820.7	764.2	312.0	144.5
82.5°	32.5	41.9	99.5	93.2	48.2	62.8	230.3	245.0	158.1	94.2	50.2
85°	3.1	4.2	37.7	40.8	17.8	14.7	48.2	48.2	34.5	32.5	20.9
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	4.2	5.2	6.3	8.4	10.5
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°	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2	2061.2
2.5°	2080.1	2067.5	2083.2	2095.8	2098.9	2075.9	2062.3	2042.4	2038.2	2039.2	2034.0
5°	2108.3	2102.1	2113.6	2100.0	2064.4	1997.4	1939.8	1875.9	1841.4	1821.5	1819.4
7.5°	2160.7	2157.5	2145.0	2083.2	1972.3	1823.6	1680.2	1539.9	1453.0	1421.6	1416.4
10°	2238.1	2231.9	2180.6	2034.0	1797.4	1511.6	1270.9	1069.9	947.4	911.8	867.8
12.5°	2327.1	2314.6	2202.6	1928.3	1533.6	1137.9	837.5	612.4	506.7	475.3	475.3
15°	2413.0	2385.8	2190.0	1753.5	1209.1	740.1	467.9	353.8	321.4	313.0	313.0
17.5°	2500.9	2448.6	2140.8	1514.8	835.4	437.6	312.0	290.0	285.8	286.8	287.9
20°	2583.6	2502.0	2053.9	1227.9	532.8	305.7	279.5	274.3	272.2	274.3	273.2
22.5°	2673.6	2551.2	1922.0	914.9	346.5	275.3	265.9	261.7	259.6	262.8	262.8
25°	2762.6	2586.7	1747.2	615.5	275.3	256.5	251.2	247.1	245.0	246.0	246.0
27.5°	2808.7	2573.1	1517.9	392.6	247.1	237.6	232.4	227.2	224.0	223.0	224.0
30°	2840.1	2531.3	1237.4	279.5	224.0	212.5	207.3	203.1	194.7	189.5	191.6
32.5°	2889.3	2489.4	932.7	234.5	205.2	187.4	179.0	168.5	157.0	151.8	151.8
35°	2947.9	2431.8	654.3	211.5	185.3	166.4	150.7	132.9	119.3	115.2	115.2
37.5°	3025.4	2377.4	435.5	195.8	168.5	148.7	126.7	105.7	91.1	89.0	87.9
40°	3141.6	2331.3	306.7	184.2	153.9	129.8	103.6	81.7	71.2	68.0	68.0
42.5°	3292.3	2284.2	242.9	172.7	141.3	112.0	82.7	64.9	56.5	54.4	53.4
45°	3478.7	2228.7	211.5	162.3	128.8	93.2	66.0	54.4	48.2	46.1	46.1
47.5°	3680.7	2153.4	196.8	148.7	114.1	75.4	55.5	47.1	44.0	42.9	41.9
50°	3879.6	2051.8	184.2	136.1	97.4	61.8	48.2	42.9	40.8	39.8	39.8
52.5°	4053.4	1933.5	168.5	121.4	79.6	53.4	42.9	39.8	37.7	35.6	34.5
55°	4202.0	1804.8	148.7	104.7	64.9	47.1	39.8	36.6	34.5	32.5	31.4
57.5°	4393.6	1731.5	119.3	84.8	53.4	41.9	36.6	33.5	31.4	28.3	28.3
60°	4606.1	1678.1	89.0	67.0	46.1	38.7	33.5	30.4	28.3	25.1	25.1
62.5°	4776.7	1598.5	70.1	54.4	39.8	34.5	30.4	27.2	25.1	22.0	22.0
65°	4841.6	1434.2	57.6	42.9	32.5	30.4	27.2	25.1	22.0	18.8	18.8
67.5°	4548.5	1105.5	48.2	34.5	27.2	26.2	24.1	23.0	18.8	16.7	15.7
70°	3602.2	674.2	39.8	28.3	23.0	22.0	22.0	19.9	16.7	15.7	14.7
72.5°	2468.5	347.6	32.5	23.0	19.9	19.9	18.8	17.8	15.7	14.7	14.7
75°	1282.4	116.2	25.1	17.8	15.7	16.7	16.7	15.7	14.7	14.7	13.6
77.5°	367.4	52.3	18.8	13.6	12.6	12.6	13.6	13.6	13.6	12.6	12.6
80°	95.3	30.4	13.6	10.5	10.5	10.5	10.5	11.5	12.6	11.5	11.5
82.5°	38.7	16.7	9.4	8.4	8.4	8.4	8.4	9.4	10.5	10.5	10.5
85°	24.1	8.4	7.3	7.3	7.3	6.3	6.3	7.3	7.3	8.4	8.4
87.5°	14.7	6.3	6.3	6.3	6.3	5.2	5.2	5.2	5.2	5.2	5.2
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)