

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: P637561

Luminaire Tested: GWS-SA4D-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11139 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

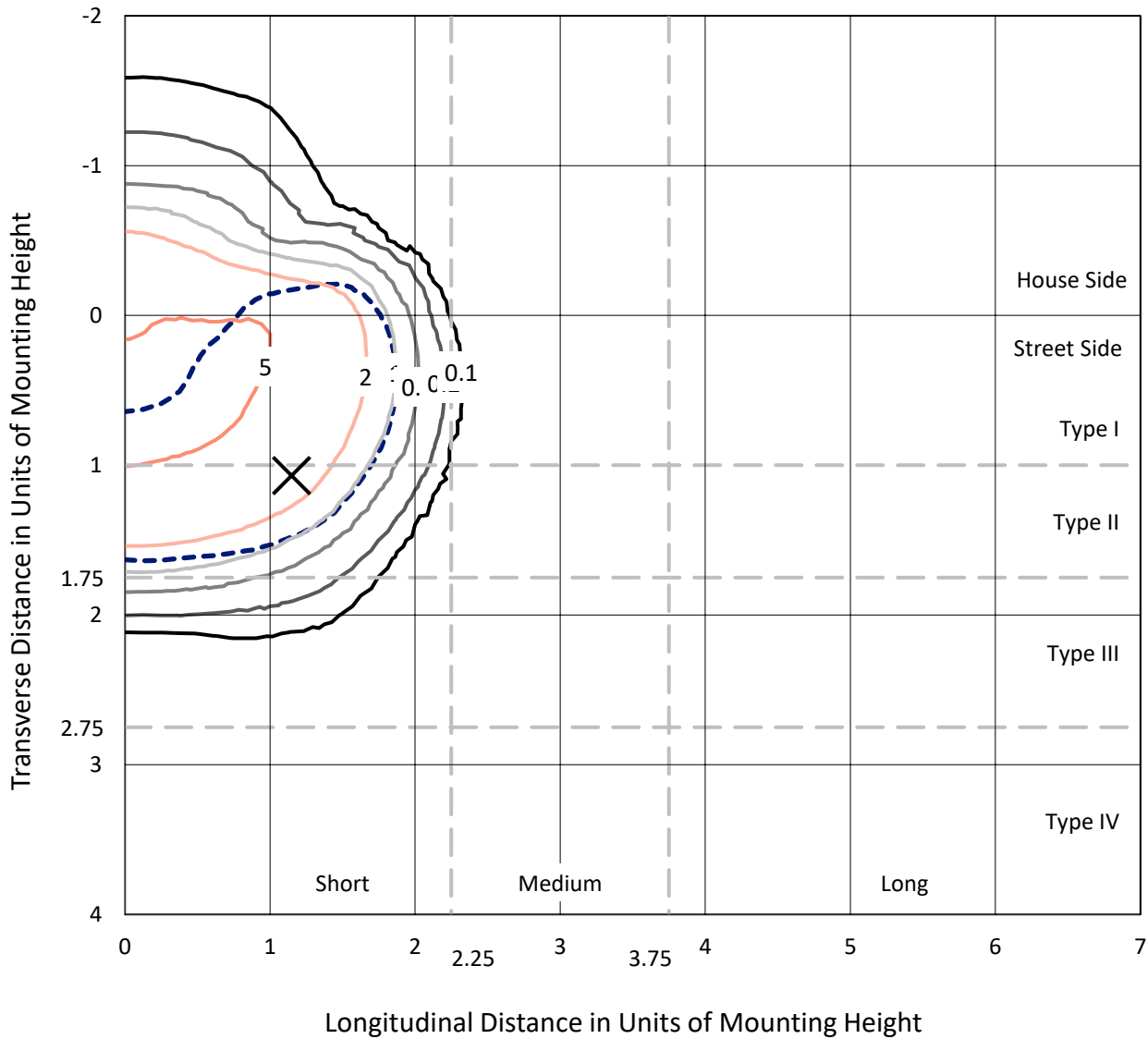
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

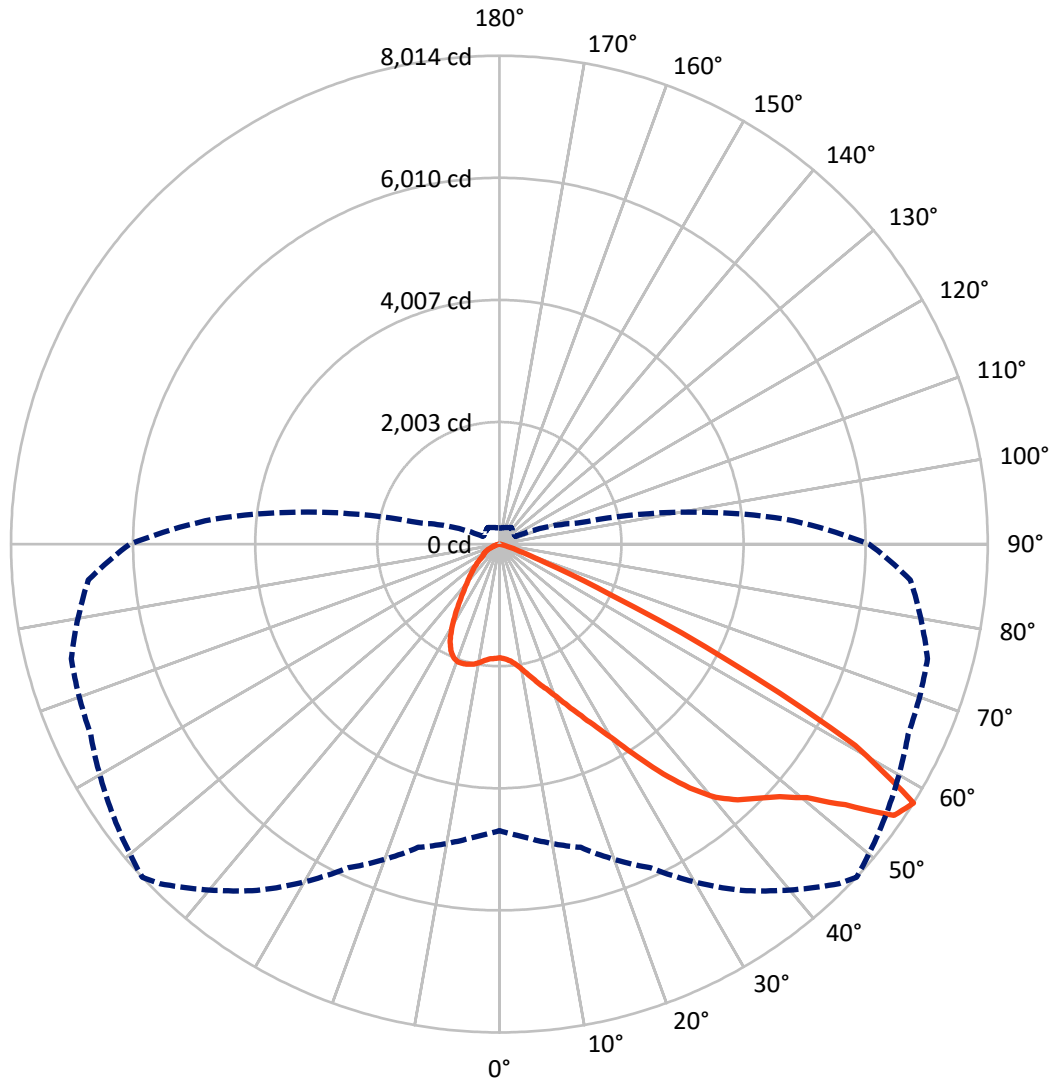
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2416.6	0.0	2416.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8722.4	0.0	8722.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	11139.0	0.0	11139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	1.7
10°-20°	626.0	5.6
20°-30°	1162.3	10.4
30°-40°	1860.6	16.7
40°-50°	2719.7	24.4
50°-60°	3356.6	30.1
60°-70°	1121.6	10.1
70°-80°	104.5	0.9
80°-90°	2.2	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°	11139.0	100.0
0°-180°	11139.0	100.0

Coefficient of Utilization



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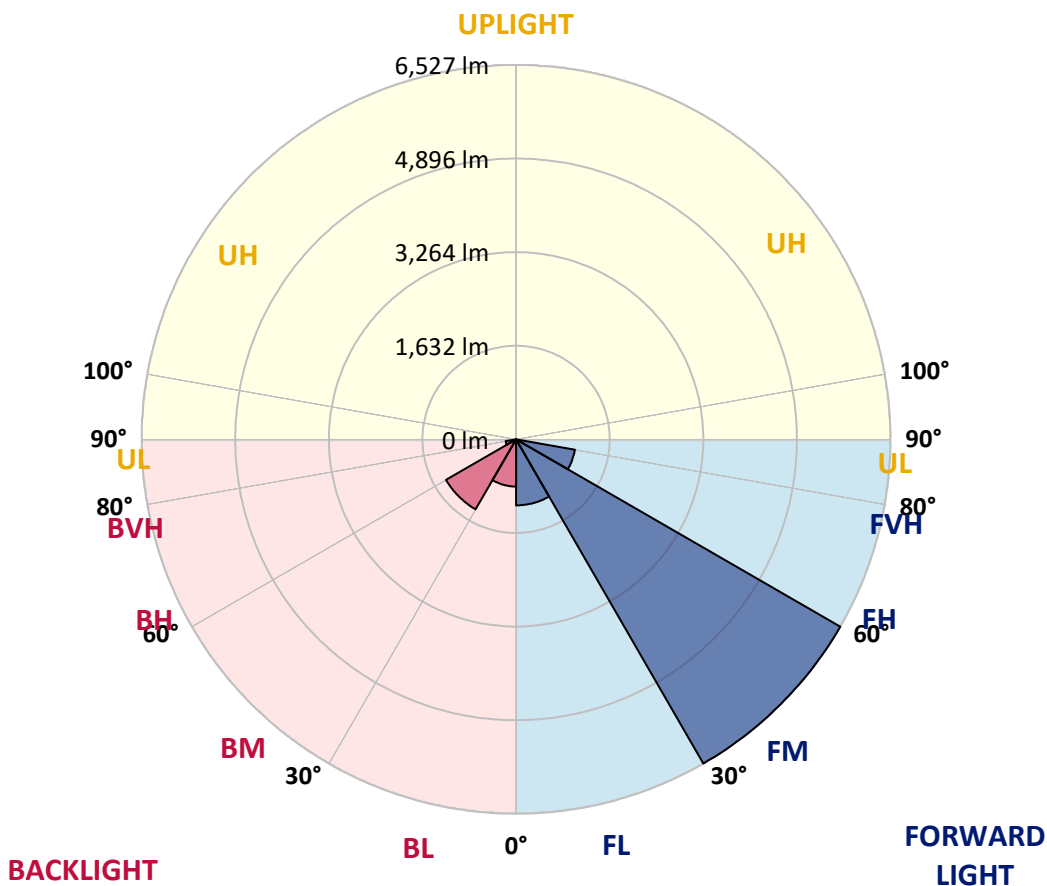
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.2	10.3			
FM (30°-60°)	6527.4	58.6			
FH (60°-80°)	1042.4	9.4			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	822.6	7.4	B2/1000		
BM (30°-60°)	1409.6	12.7	B2/2500		
BH (60°-80°)	183.7	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	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°	47°	55°	65°	75°	85°
0°	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7
2.5°	1884.1	1882.8	1881.5	1889.2	1886.7	1885.4	1888.0	1888.0	1888.0	1880.2	1864.7
5°	1929.3	1929.3	1928.0	1935.8	1929.3	1925.5	1926.8	1926.8	1921.6	1907.4	1888.0
7.5°	2000.5	1997.9	1995.3	2003.0	1996.6	1995.3	1997.9	1990.1	1981.1	1957.8	1930.6
10°	2102.6	2102.6	2098.7	2106.5	2101.3	2098.7	2098.7	2093.6	2076.8	2040.5	2000.5
12.5°	2243.6	2237.1	2228.0	2221.6	2219.0	2217.7	2219.0	2211.2	2193.1	2146.6	2091.0
15°	2397.4	2392.3	2378.0	2367.7	2353.5	2350.9	2358.7	2352.2	2334.1	2270.7	2191.8
17.5°	2591.4	2597.9	2561.7	2539.7	2498.3	2495.7	2498.3	2508.7	2495.7	2414.3	2299.2
20°	2756.9	2762.1	2735.0	2719.4	2681.9	2665.1	2670.3	2687.1	2672.9	2577.2	2416.8
22.5°	2934.1	2940.6	2912.1	2879.8	2863.0	2863.0	2882.4	2905.6	2886.2	2760.8	2551.3
25°	3146.2	3151.3	3128.1	3085.4	3055.6	3093.1	3121.6	3183.7	3151.3	2980.6	2710.4
27.5°	3389.3	3390.6	3356.9	3313.0	3297.5	3367.3	3395.7	3491.4	3478.5	3227.6	2878.5
30°	3649.2	3650.5	3642.7	3613.0	3598.8	3690.6	3729.4	3867.7	3858.7	3534.1	3107.4
32.5°	3919.4	3919.4	3933.7	3931.1	3947.9	4097.9	4160.0	4317.7	4308.7	3909.1	3391.9
35°	4191.0	4192.3	4216.9	4278.9	4348.8	4547.9	4629.4	4820.8	4800.1	4357.8	3755.2
37.5°	4500.1	4487.1	4520.8	4613.9	4769.0	4999.2	5076.8	5259.1	5235.8	4816.9	4229.8
40°	4872.5	4849.2	4849.2	4957.8	5133.7	5398.8	5464.7	5555.2	5476.4	5188.0	4695.3
42.5°	5283.7	5261.7	5233.3	5329.0	5476.4	5683.3	5737.6	5713.0	5648.4	5538.4	5225.5
45°	5700.1	5666.5	5685.9	5744.0	5829.4	5927.7	5948.4	5834.6	5804.8	5835.9	5663.9
47.5°	6016.9	5993.6	6041.5	6122.9	6192.8	6207.0	6192.8	6035.0	6032.4	6142.3	5967.8
50°	6122.9	6125.5	6257.4	6435.9	6548.4	6560.0	6540.6	6359.6	6335.0	6367.3	6132.0
52.5°	6133.3	6143.6	6336.3	6676.4	6982.9	7122.5	7107.0	6911.7	6671.2	6636.3	6380.3
55°	5883.7	5944.5	6213.4	6710.0	7361.7	7807.9	7859.6	7485.9	7129.0	7099.2	6914.3
57.5°	4703.1	4827.2	5151.8	5859.1	6938.9	7879.0	8013.5	7744.5	7399.2	7272.5	6770.8
60°	2811.2	2965.1	3276.8	4144.5	5281.1	6476.0	6707.4	6744.9	6585.9	6219.9	5194.5
62.5°	1206.5	1193.6	1577.6	2242.3	3141.0	4116.0	4220.7	4383.7	4522.0	4139.3	3152.6
65°	413.8	450.0	625.9	1011.2	1572.4	1911.2	2004.3	2150.5	2347.0	1937.1	1154.8
67.5°	256.0	271.6	360.8	597.4	848.3	835.4	794.0	770.7	750.0	513.4	316.8
70°	186.2	199.1	253.5	411.2	570.3	400.9	347.8	281.9	312.9	288.4	225.0
72.5°	125.4	135.8	174.6	249.6	292.2	195.3	181.0	205.6	248.3	236.6	183.6
75°	75.0	81.5	99.6	121.6	119.0	100.9	102.2	144.8	190.1	177.2	130.6
77.5°	51.7	54.3	65.9	78.9	58.2	31.0	28.4	40.1	64.7	64.7	44.0
80°	12.9	16.8	16.8	10.3	9.1	7.8	7.8	11.6	18.1	12.9	6.5
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
85°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
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°	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7	1864.7
2.5°	1873.7	1858.2	1868.6	1866.0	1873.7	1876.3	1864.7	1862.1	1863.4	1847.9	1842.7
5°	1891.8	1873.7	1878.9	1873.7	1882.8	1890.5	1886.7	1891.8	1898.3	1886.7	1881.5
7.5°	1930.6	1912.5	1911.2	1903.5	1916.4	1921.6	1920.3	1934.5	1947.4	1939.7	1931.9
10°	1997.9	1973.3	1970.7	1964.3	1968.1	1972.0	1957.8	1960.4	1972.0	1963.0	1959.1
12.5°	2080.6	2050.9	2044.4	2028.9	2028.9	2009.5	1978.5	1972.0	1981.1	1974.6	1968.1
15°	2169.9	2129.8	2119.4	2092.3	2066.4	2030.2	1997.9	1990.1	1996.6	1988.8	1983.6
17.5°	2269.4	2224.2	2190.5	2142.7	2085.8	2043.1	2006.9	1990.1	1979.8	1964.3	1963.0
20°	2367.7	2308.2	2251.3	2175.0	2100.0	2035.4	1975.9	1931.9	1894.4	1871.1	1862.1
22.5°	2481.5	2393.6	2301.8	2194.4	2087.1	1988.8	1884.1	1809.1	1744.4	1722.4	1712.1
25°	2603.1	2489.3	2352.2	2212.5	2043.1	1885.4	1743.1	1631.9	1546.6	1518.1	1506.5
27.5°	2737.5	2581.1	2403.9	2208.7	1952.6	1738.0	1549.2	1410.8	1326.7	1300.9	1309.9
30°	2908.2	2700.0	2468.6	2168.6	1816.8	1531.1	1309.9	1193.6	1130.2	1105.6	1106.9
32.5°	3135.8	2870.7	2563.0	2083.2	1642.3	1295.7	1101.7	1016.4	973.7	941.4	938.8
35°	3461.7	3130.6	2650.9	1946.1	1430.2	1086.2	945.3	878.0	818.5	781.0	787.5
37.5°	3852.2	3457.8	2698.7	1761.2	1192.3	923.3	827.6	759.1	691.8	636.2	642.7
40°	4315.1	3885.8	2694.9	1518.1	975.0	812.1	729.3	649.1	565.1	514.7	519.8
42.5°	4831.1	4290.6	2610.8	1260.8	808.2	721.6	634.9	534.1	452.6	421.6	422.9
45°	5278.5	4619.0	2463.4	994.4	680.2	633.6	536.6	433.2	397.0	375.0	373.7
47.5°	5609.6	4859.5	2252.6	782.3	576.7	553.5	441.0	387.9	359.5	341.4	338.8
50°	5794.5	4943.6	2019.9	612.9	487.5	469.4	394.4	351.7	332.3	320.7	318.1
52.5°	6042.8	5044.5	1853.0	483.6	408.6	384.1	363.4	327.2	314.2	305.2	301.3
55°	6435.9	5239.7	1708.2	384.1	340.1	334.9	342.7	312.9	305.2	291.0	285.8
57.5°	6066.0	4707.0	1326.7	297.4	287.1	306.5	331.0	298.7	279.3	266.4	261.2
60°	4268.6	3129.4	667.3	239.2	256.0	287.1	311.6	270.3	250.9	253.5	250.9
62.5°	2353.5	1566.0	300.0	200.4	222.4	253.5	266.4	234.1	221.1	243.1	247.0
65°	769.4	532.8	173.3	155.2	175.9	206.9	230.2	222.4	219.8	245.7	253.5
67.5°	236.6	175.9	117.7	111.2	121.6	152.6	194.0	240.5	258.6	266.4	270.3
70°	177.2	138.4	100.9	94.4	99.6	116.4	164.2	200.4	188.8	190.1	187.5
72.5°	142.2	109.9	86.6	82.8	82.8	80.2	86.6	108.6	122.8	129.3	129.3
75°	99.6	77.6	65.9	60.8	47.8	38.8	34.9	34.9	31.0	29.7	28.4
77.5°	33.6	28.4	25.9	20.7	14.2	11.6	10.3	9.1	6.5	3.9	2.6
80°	5.2	3.9	2.6	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
85°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	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)