

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: P636562

Luminaire Tested: GWS-SA4B-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10642.2 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

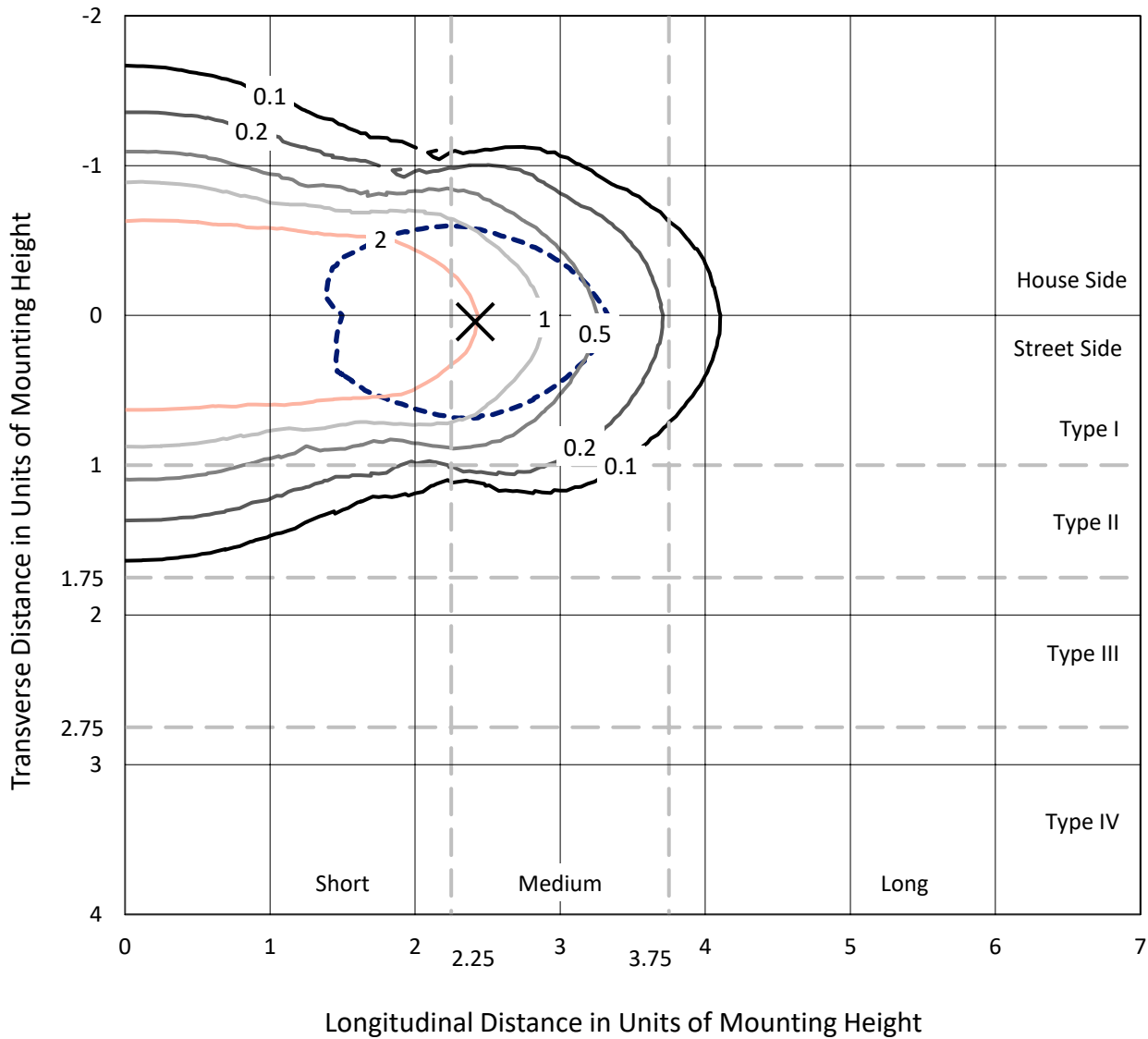
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

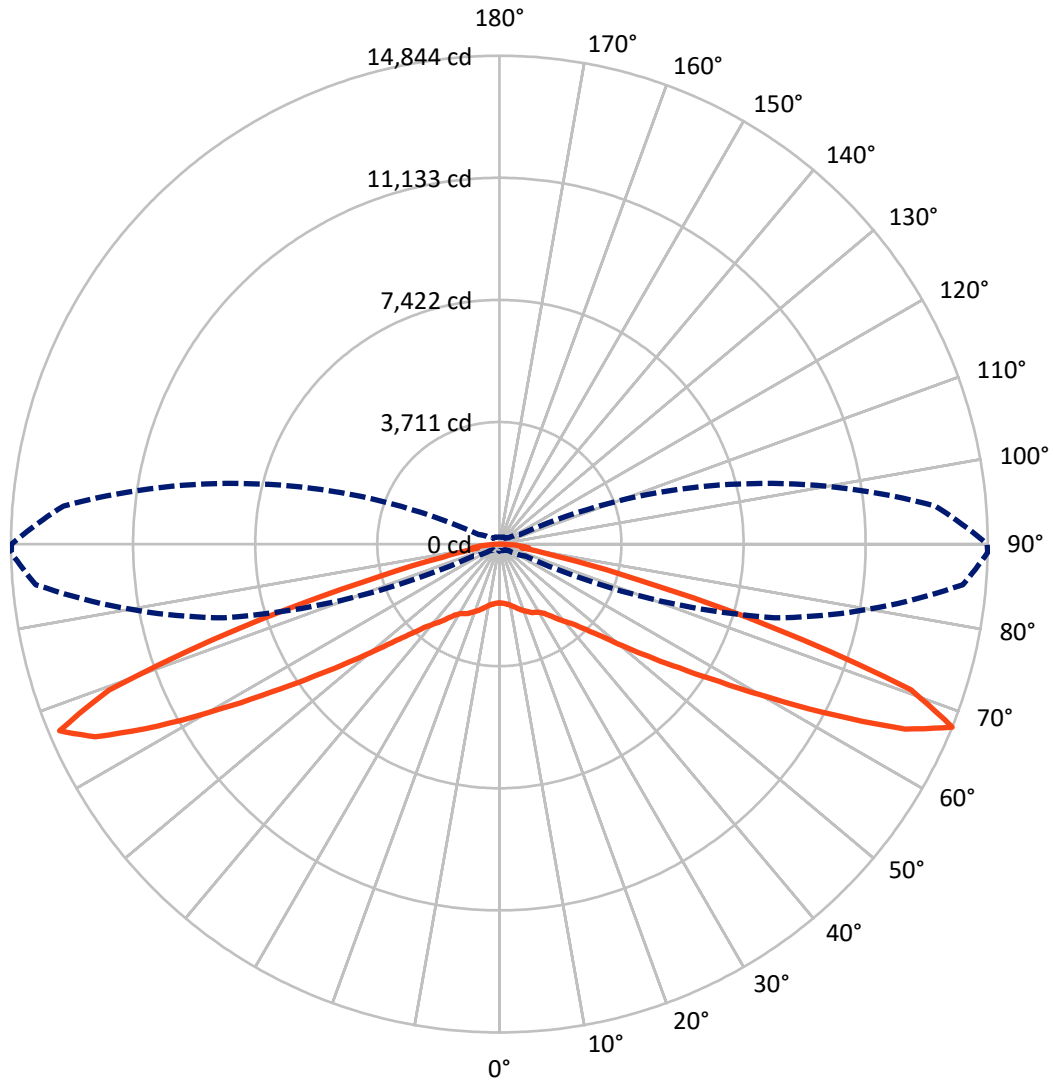
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5274.5	0.0	5274.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5367.7	0.0	5367.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	10642.2	0.0	10642.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.7
10°-20°	583.4	5.5
20°-30°	986.2	9.3
30°-40°	1353.5	12.7
40°-50°	1726.0	16.2
50°-60°	2165.5	20.3
60°-70°	2611.8	24.5
70°-80°	944.9	8.9
80°-90°	91.9	0.9
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°	10642.2	100.0
0°-180°	10642.2	100.0

Coefficient of Utilization



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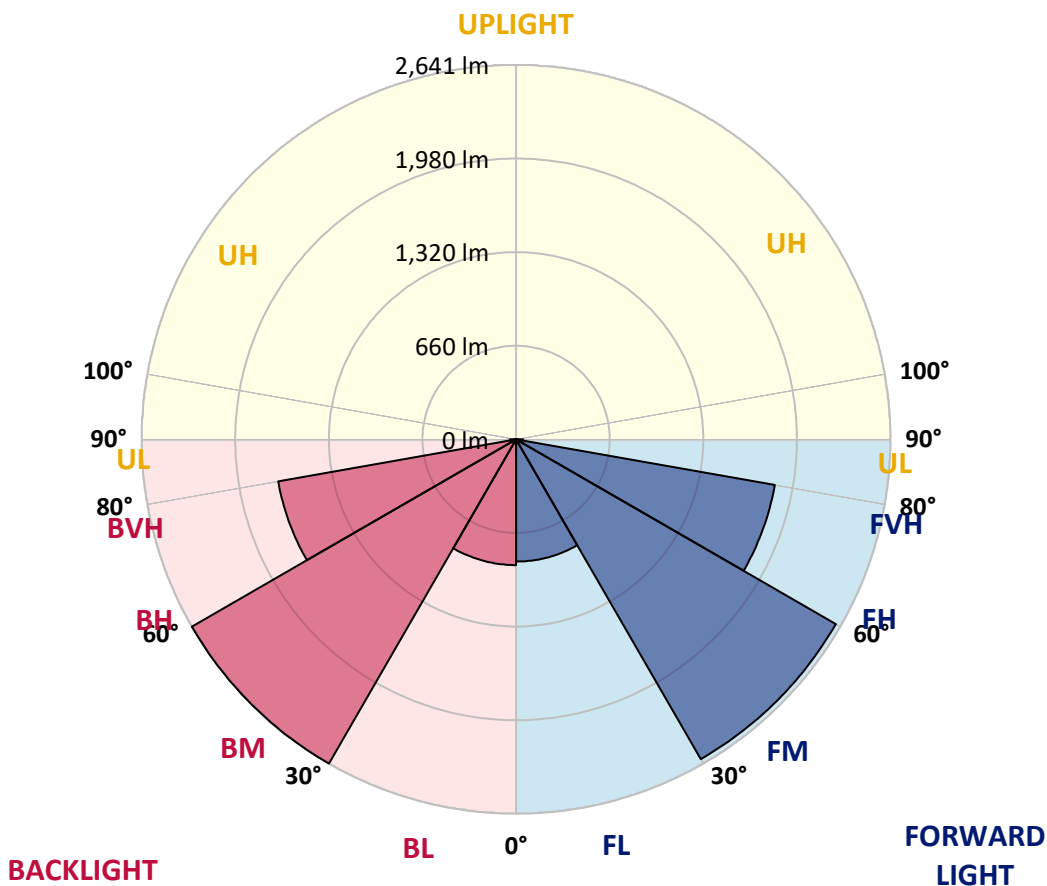
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.9	8.1			
FM (30°-60°)	2604.4	24.5			
FH (60°-80°)	1853.0	17.4			G2/5000
FVH (80°-90°)	48.5	0.5			G1/100
BL (0°-30°)	886.9	8.3	B2/1000		
BM (30°-60°)	2640.5	24.8	B3/5000		
BH (60°-80°)	1703.6	16.0	B3/2500		G3/2500
BVH (80°-90°)	43.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1791.6	1790.0	1786.2	1797.7	1795.4	1796.1	1800.7	1797.7	1792.3	1783.2	1796.1
5°	1842.0	1841.2	1832.8	1839.7	1832.1	1826.7	1826.0	1818.3	1812.2	1802.3	1816.0
7.5°	1890.9	1890.2	1883.3	1895.5	1889.4	1883.3	1876.4	1861.1	1846.6	1832.1	1847.4
10°	1928.4	1927.6	1926.1	1943.7	1945.2	1947.5	1944.4	1918.4	1893.2	1875.6	1890.9
12.5°	1949.8	1952.1	1955.9	1988.0	2004.0	2019.3	2023.1	2001.7	1959.7	1934.5	1952.8
15°	1935.2	1939.8	1958.9	2017.0	2061.4	2095.8	2110.3	2092.7	2038.4	1996.4	2017.0
17.5°	1865.7	1869.5	1907.0	1995.6	2093.5	2173.0	2196.6	2185.9	2125.6	2074.4	2094.2
20°	1769.4	1777.8	1818.3	1942.1	2088.1	2226.5	2289.9	2286.1	2220.3	2141.6	2165.3
22.5°	1682.3	1692.2	1735.0	1871.8	2052.2	2240.2	2383.9	2393.8	2306.7	2208.9	2228.0
25°	1584.4	1593.6	1648.6	1788.5	1990.3	2229.5	2464.2	2509.3	2404.5	2286.1	2303.6
27.5°	1484.3	1491.2	1545.4	1694.5	1909.3	2209.6	2527.6	2636.1	2500.8	2339.6	2351.8
30°	1396.4	1405.6	1455.3	1600.5	1820.6	2169.9	2579.6	2771.4	2611.7	2400.0	2409.9
32.5°	1311.6	1319.2	1373.5	1508.0	1726.6	2108.7	2626.2	2930.4	2776.0	2512.3	2512.3
35°	1204.6	1218.3	1279.5	1419.3	1637.9	2027.7	2659.8	3115.4	3000.7	2678.2	2678.9
37.5°	1106.0	1113.6	1177.8	1319.2	1544.7	1936.0	2662.9	3307.2	3285.0	2889.1	2890.6
40°	993.6	1003.5	1072.3	1212.2	1437.7	1839.7	2633.8	3486.0	3583.1	3106.2	3097.8
42.5°	879.7	894.3	960.0	1096.8	1322.3	1722.0	2556.6	3656.5	3961.5	3357.6	3337.0
45°	769.7	778.8	844.6	973.7	1190.0	1581.4	2432.8	3820.1	4410.9	3739.8	3710.0
47.5°	645.8	649.7	717.7	841.5	1053.2	1424.7	2255.5	3966.0	4904.6	4245.8	4194.6
50°	535.8	541.1	594.6	700.9	885.8	1239.0	2034.6	4051.6	5533.7	4936.0	4847.3
52.5°	433.4	438.7	481.5	566.4	732.2	1027.2	1761.0	4031.8	6171.9	5792.8	5663.6
55°	350.1	353.9	382.9	449.4	576.3	817.1	1437.7	3853.7	6880.4	6911.7	6633.5
57.5°	295.8	297.3	317.2	357.7	450.2	629.8	1109.8	3433.3	7623.3	8339.5	7882.4
60°	264.5	265.2	274.4	299.6	355.4	480.8	813.2	2763.8	8393.0	10125.7	9498.9
62.5°	244.6	244.6	252.2	266.7	295.0	369.9	597.7	1984.9	8945.6	12069.3	11446.4
65°	225.5	225.5	230.8	243.1	258.3	301.9	448.7	1280.2	9216.9	13694.3	13555.9
67.5°	201.0	201.8	205.6	218.6	232.4	252.2	340.1	866.0	8653.6	14143.7	14843.8
70°	178.1	178.9	184.2	192.6	204.1	217.8	266.0	596.9	6298.7	11779.6	13272.4
72.5°	152.9	155.9	159.7	168.9	175.8	185.7	217.1	386.7	3664.9	7577.4	8773.6
75°	125.3	129.2	133.8	142.9	147.5	151.3	178.9	275.9	1763.3	3839.9	4372.7
77.5°	97.1	100.9	106.2	114.6	117.7	122.3	136.8	199.5	844.6	1702.1	1835.1
80°	65.0	66.5	71.1	81.0	86.4	89.4	100.9	136.0	366.9	683.3	677.2
82.5°	39.7	40.5	42.0	48.2	50.4	53.5	65.7	83.3	175.0	776.5	890.4
85°	14.5	13.8	13.0	16.8	19.9	22.9	30.6	42.0	76.4	533.5	596.9
87.5°	0.0	0.0	0.0	0.8	1.5	1.5	3.1	6.1	18.3	199.5	136.8
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°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1792.3	1783.9	1794.6	1802.3	1819.1	1825.2	1826.7	1821.4	1821.4	1812.2	1813.7
5°	1813.0	1807.6	1825.2	1838.2	1862.6	1871.8	1877.9	1874.1	1876.4	1870.3	1871.8
7.5°	1844.3	1839.7	1870.3	1895.5	1920.7	1931.4	1936.8	1933.7	1934.5	1926.8	1929.1
10°	1887.9	1889.4	1926.1	1958.9	1992.6	2003.3	2005.6	1996.4	1988.8	1975.0	1975.8
12.5°	1947.5	1955.1	2007.1	2043.8	2078.2	2093.5	2076.6	2043.0	2011.7	1988.0	1984.9
15°	2012.4	2026.2	2101.1	2147.7	2185.2	2177.5	2127.9	2052.2	1990.3	1955.1	1948.2
17.5°	2090.4	2111.0	2205.1	2260.8	2292.9	2244.0	2140.1	2027.0	1940.6	1893.2	1884.0
20°	2163.8	2196.6	2315.1	2387.7	2391.5	2281.5	2134.7	1975.8	1867.2	1809.1	1796.9
22.5°	2231.0	2273.1	2430.5	2523.0	2473.3	2298.3	2101.9	1903.1	1778.6	1710.5	1699.8
25°	2304.4	2364.0	2565.0	2651.4	2555.1	2291.4	2033.1	1813.0	1671.6	1602.0	1594.4
27.5°	2354.9	2429.8	2700.3	2782.9	2622.4	2252.4	1944.4	1714.4	1573.7	1508.0	1497.3
30°	2412.9	2508.5	2849.4	2925.8	2663.6	2195.1	1849.6	1622.6	1482.8	1411.7	1404.0
32.5°	2518.4	2638.4	3034.3	3077.1	2676.6	2124.0	1758.7	1534.0	1388.0	1316.9	1306.2
35°	2688.1	2828.7	3294.2	3246.1	2666.7	2046.1	1672.3	1430.0	1290.9	1224.4	1213.7
37.5°	2902.1	3077.1	3583.9	3398.2	2639.2	1960.5	1569.9	1342.9	1203.8	1136.5	1130.4
40°	3101.6	3317.1	3908.7	3529.6	2583.4	1855.0	1471.3	1252.0	1109.8	1038.7	1024.9
42.5°	3351.5	3638.1	4284.8	3643.5	2491.7	1728.9	1360.5	1139.6	992.1	927.9	911.1
45°	3731.4	4087.6	4721.9	3752.8	2354.9	1573.7	1221.4	1002.8	862.9	797.2	784.2
47.5°	4205.3	4649.3	5195.8	3817.8	2147.0	1410.2	1063.9	858.3	718.5	644.3	638.2
50°	4871.0	5466.4	5704.1	3806.3	1914.6	1216.0	886.6	686.4	569.4	515.9	507.5
52.5°	5681.9	6492.1	6253.6	3668.7	1667.7	995.1	690.9	538.8	451.7	413.5	406.6
55°	6699.2	7720.4	6832.2	3373.7	1355.9	762.0	542.7	425.0	365.3	342.4	339.4
57.5°	7958.8	9310.9	7389.4	2876.9	1019.6	581.6	418.1	350.8	322.5	308.8	308.0
60°	9621.2	10999.3	7873.2	2235.6	729.9	444.8	345.5	313.4	291.2	282.0	281.3
62.5°	11597.7	12532.5	8174.4	1522.5	548.8	354.6	304.2	284.3	271.3	266.0	265.2
65°	13629.3	13501.7	8030.7	997.4	416.6	301.1	272.9	262.2	250.7	245.3	245.3
67.5°	14829.3	13296.8	6927.8	692.5	330.2	264.5	246.1	236.2	217.1	212.5	212.5
70°	13134.8	10774.6	4540.8	506.7	267.5	231.6	214.0	200.3	192.6	188.0	187.3
72.5°	8687.2	7011.1	2414.5	351.6	223.2	197.2	181.1	175.8	166.6	162.0	161.3
75°	4323.7	3682.5	1237.4	253.8	185.7	158.2	151.3	149.0	141.4	135.3	133.8
77.5°	1802.3	1639.5	577.1	184.2	141.4	127.6	121.5	121.5	113.1	106.2	103.2
80°	679.5	605.3	272.9	126.1	104.7	94.8	91.0	87.9	81.0	72.6	68.0
82.5°	908.8	593.9	133.8	78.7	68.8	61.1	55.8	53.5	49.7	45.9	42.8
85°	588.5	421.9	60.4	40.5	34.4	26.0	22.9	21.4	19.1	16.8	15.3
87.5°	120.0	141.4	18.3	7.6	4.6	2.3	2.3	0.8	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)