

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: P632712

Luminaire Tested: GWS-SA2D-730-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632712
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-SA2D-730-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10613 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

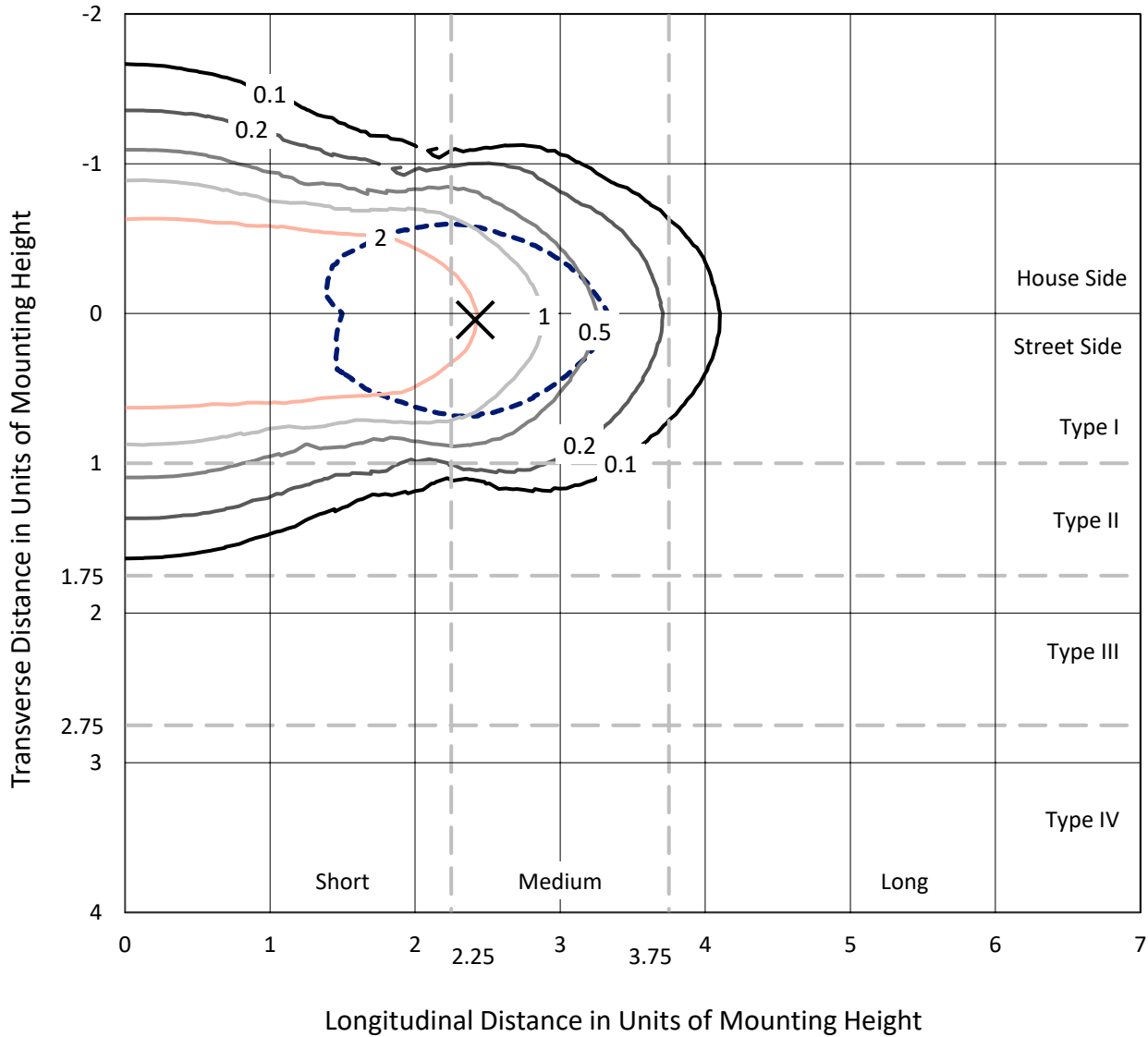
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

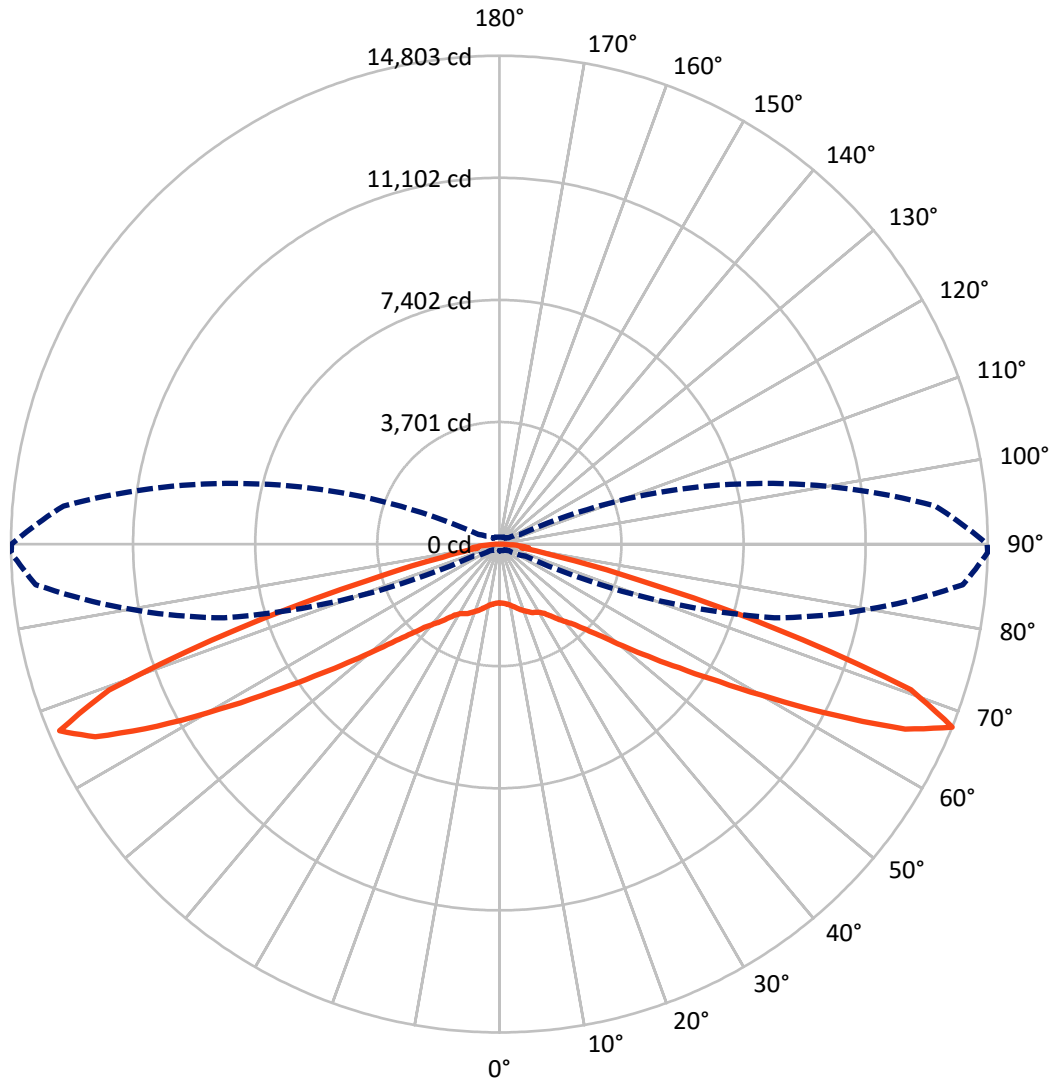
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	5260.0	0.0	5260.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5353.0	0.0	5353.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	10613.0	0.0	10613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.7
10°-20°	581.8	5.5
20°-30°	983.5	9.3
30°-40°	1349.7	12.7
40°-50°	1721.2	16.2
50°-60°	2159.5	20.3
60°-70°	2604.6	24.5
70°-80°	942.3	8.9
80°-90°	91.6	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°	10613.0	100.0
0°-180°	10613.0	100.0

Coefficient of Utilization



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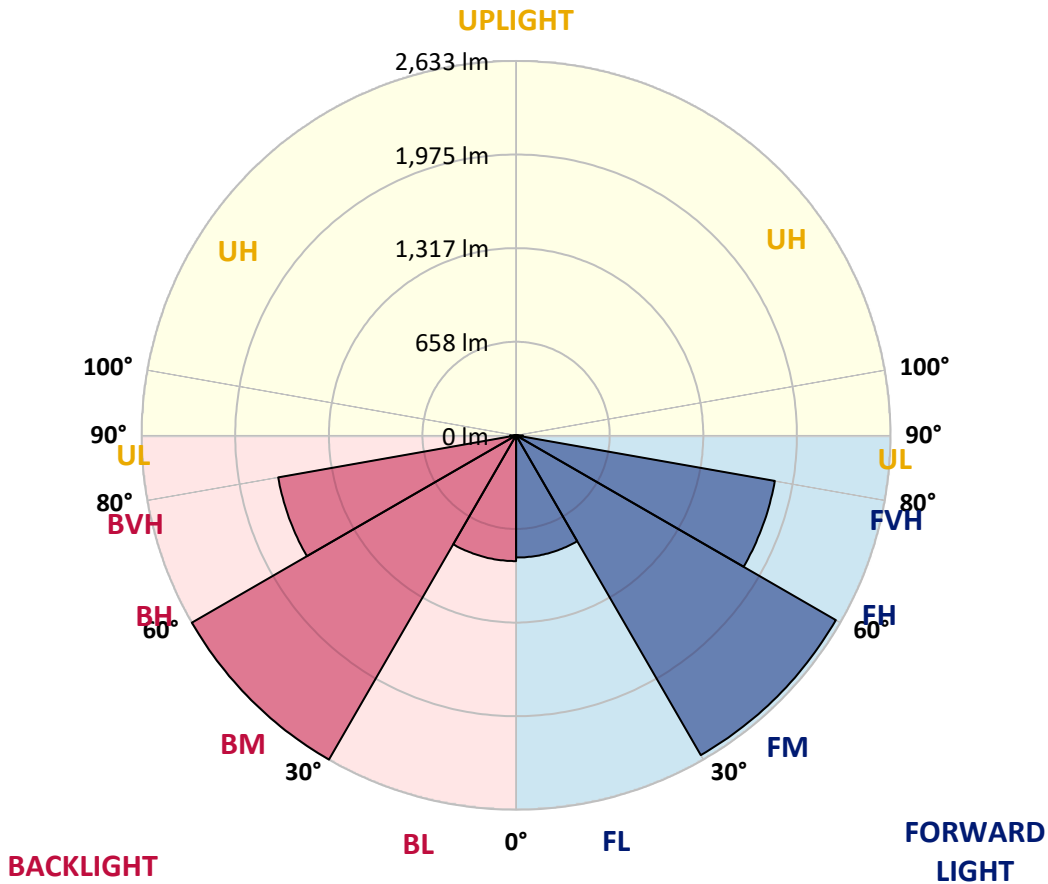
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.6	8.1			
FM (30°-60°)	2597.2	24.5			
FH (60°-80°)	1847.9	17.4			G2/5000
FVH (80°-90°)	48.3	0.5			G1/100
BL (0°-30°)	884.4	8.3	B2/1000		
BM (30°-60°)	2633.3	24.8	B3/5000		
BH (60°-80°)	1699.0	16.0	B3/2500		G3/2500
BVH (80°-90°)	43.3	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°	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3
2.5°	1786.6	1785.1	1781.3	1792.7	1790.5	1791.2	1795.8	1792.7	1787.4	1778.3	1791.2
5°	1836.9	1836.2	1827.8	1834.7	1827.0	1821.7	1820.9	1813.3	1807.2	1797.3	1811.0
7.5°	1885.7	1885.0	1878.1	1890.3	1884.2	1878.1	1871.2	1856.0	1841.5	1827.0	1842.3
10°	1923.1	1922.3	1920.8	1938.3	1939.8	1942.1	1939.1	1913.2	1888.0	1870.5	1885.7
12.5°	1944.4	1946.7	1950.5	1982.5	1998.5	2013.8	2017.6	1996.3	1954.3	1929.2	1947.5
15°	1929.9	1934.5	1953.6	2011.5	2055.7	2090.0	2104.5	2087.0	2032.8	1990.9	2011.5
17.5°	1860.6	1864.4	1901.7	1990.2	2087.7	2167.0	2190.6	2179.9	2119.7	2068.7	2088.5
20°	1764.5	1772.9	1813.3	1936.8	2082.4	2220.3	2283.6	2279.8	2214.2	2135.7	2159.4
22.5°	1677.6	1687.6	1730.2	1866.7	2046.6	2234.1	2377.4	2387.3	2300.4	2202.8	2221.9
25°	1580.1	1589.2	1644.1	1783.6	1984.8	2223.4	2457.4	2502.4	2397.9	2279.8	2297.3
27.5°	1480.2	1487.1	1541.2	1689.8	1904.0	2203.6	2520.7	2628.9	2494.0	2333.2	2345.3
30°	1392.6	1401.7	1451.3	1596.1	1815.6	2163.9	2572.5	2763.8	2604.5	2393.4	2403.3
32.5°	1308.0	1315.6	1369.7	1503.9	1721.9	2103.0	2619.0	2922.3	2768.4	2505.4	2505.4
35°	1201.3	1215.0	1276.0	1415.4	1633.4	2022.2	2652.5	3106.8	2992.5	2670.8	2671.6
37.5°	1102.9	1110.6	1174.6	1315.6	1540.4	1930.7	2655.6	3298.1	3276.0	2881.2	2882.7
40°	990.9	1000.8	1069.4	1208.9	1433.7	1834.7	2626.6	3476.5	3573.3	3097.7	3089.3
42.5°	877.3	891.8	957.3	1093.8	1318.6	1717.3	2549.6	3646.5	3950.6	3348.4	3327.8
45°	767.6	776.7	842.3	971.1	1186.8	1577.0	2426.1	3809.6	4398.8	3729.5	3699.8
47.5°	644.1	647.9	715.7	839.2	1050.3	1420.8	2249.3	3955.2	4891.2	4234.1	4183.1
50°	534.3	539.7	593.0	699.0	883.4	1235.6	2029.0	4040.5	5518.5	4922.4	4834.0
52.5°	432.2	437.5	480.2	564.8	730.2	1024.4	1756.2	4020.7	6154.9	5776.9	5648.0
55°	349.1	352.9	381.9	448.2	574.7	814.8	1433.7	3843.1	6861.5	6892.7	6615.3
57.5°	295.0	296.5	316.3	356.7	448.9	628.1	1106.7	3423.9	7602.4	8316.6	7860.8
60°	263.7	264.5	273.6	298.8	354.4	479.4	811.0	2756.2	8369.9	10097.9	9472.9
62.5°	243.9	243.9	251.5	266.0	294.2	368.9	596.1	1979.5	8921.0	12036.2	11415.0
65°	224.9	224.9	230.2	242.4	257.6	301.1	447.4	1276.7	9191.6	13656.7	13518.7
67.5°	200.5	201.2	205.0	218.0	231.7	251.5	339.2	863.6	8629.8	14104.9	14803.1
70°	177.6	178.4	183.7	192.1	203.5	217.2	265.3	595.3	6281.4	11747.3	13235.9
72.5°	152.4	155.5	159.3	168.5	175.3	185.2	216.5	385.7	3654.8	7556.6	8749.5
75°	125.0	128.8	133.4	142.5	147.1	150.9	178.4	275.2	1758.4	3829.4	4360.7
77.5°	96.8	100.6	105.9	114.3	117.4	122.0	136.4	198.9	842.3	1697.5	1830.1
80°	64.8	66.3	70.9	80.8	86.1	89.2	100.6	135.7	365.9	681.4	675.3
82.5°	39.6	40.4	41.9	48.0	50.3	53.4	65.6	83.1	174.5	774.4	888.0
85°	14.5	13.7	13.0	16.8	19.8	22.9	30.5	41.9	76.2	532.0	595.3
87.5°	0.0	0.0	0.0	0.8	1.5	1.5	3.0	6.1	18.3	198.9	136.4
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°	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3	1781.3
2.5°	1787.4	1779.0	1789.7	1797.3	1814.1	1820.2	1821.7	1816.4	1816.4	1807.2	1808.7
5°	1808.0	1802.6	1820.2	1833.1	1857.5	1866.7	1872.8	1869.0	1871.2	1865.2	1866.7
7.5°	1839.2	1834.7	1865.2	1890.3	1915.5	1926.1	1931.5	1928.4	1929.2	1921.6	1923.8
10°	1882.7	1884.2	1920.8	1953.6	1987.1	1997.8	2000.1	1990.9	1983.3	1969.6	1970.3
12.5°	1942.1	1949.8	2001.6	2038.2	2072.5	2087.7	2070.9	2037.4	2006.2	1982.5	1979.5
15°	2006.9	2020.6	2095.3	2141.8	2179.2	2171.6	2122.0	2046.6	1984.8	1949.8	1942.9
17.5°	2084.7	2105.2	2199.0	2254.6	2286.7	2237.9	2134.2	2021.4	1935.3	1888.0	1878.9
20°	2157.8	2190.6	2308.8	2381.2	2385.0	2275.2	2128.9	1970.3	1862.1	1804.2	1792.0
22.5°	2224.9	2266.8	2423.9	2516.1	2466.5	2292.0	2096.1	1897.9	1773.7	1705.8	1695.2
25°	2298.1	2357.5	2558.0	2644.1	2548.1	2285.1	2027.5	1808.0	1667.0	1597.6	1590.0
27.5°	2348.4	2423.1	2692.9	2775.2	2615.2	2246.3	1939.1	1709.7	1569.4	1503.9	1493.2
30°	2406.3	2501.6	2841.6	2917.8	2656.3	2189.1	1844.6	1618.2	1478.7	1407.8	1400.2
32.5°	2511.5	2631.2	3026.0	3068.7	2669.3	2118.2	1753.9	1529.8	1384.2	1313.3	1302.6
35°	2680.7	2821.0	3285.2	3237.1	2659.4	2040.5	1667.7	1426.1	1287.4	1221.1	1210.4
37.5°	2894.1	3068.7	3574.0	3388.8	2631.9	1955.1	1565.6	1339.2	1200.5	1133.4	1127.3
40°	3093.1	3308.0	3898.0	3519.9	2576.3	1849.9	1467.3	1248.5	1106.7	1035.9	1022.1
42.5°	3342.3	3628.2	4273.0	3633.5	2484.8	1724.1	1356.8	1136.5	989.4	925.3	908.6
45°	3721.2	4076.3	4709.0	3742.5	2348.4	1569.4	1218.0	1000.0	860.5	795.0	782.0
47.5°	4193.7	4636.6	5181.6	3807.3	2141.1	1406.3	1061.0	856.0	716.5	642.6	636.5
50°	4857.6	5451.4	5688.4	3795.9	1909.4	1212.7	884.2	684.5	567.9	514.5	506.1
52.5°	5666.3	6474.3	6236.5	3658.7	1663.2	992.4	689.0	537.4	450.5	412.4	405.5
55°	6680.9	7699.2	6813.5	3364.4	1352.2	759.9	541.2	423.8	364.3	341.5	338.4
57.5°	7937.0	9285.4	7369.1	2869.0	1016.8	580.0	416.9	349.9	321.7	307.9	307.2
60°	9594.8	10969.1	7851.6	2229.5	727.9	443.6	344.5	312.5	290.4	281.3	280.5
62.5°	11565.9	12498.1	8151.9	1518.3	547.3	353.7	303.4	283.5	270.6	265.3	264.5
65°	13591.9	13464.6	8008.6	994.7	415.4	300.3	272.1	261.4	250.0	244.7	244.7
67.5°	14788.6	13260.3	6908.8	690.6	329.3	263.7	245.4	235.5	216.5	211.9	211.9
70°	13098.7	10745.0	4528.3	505.4	266.8	231.0	213.4	199.7	192.1	187.5	186.7
72.5°	8663.4	6991.8	2407.9	350.6	222.6	196.7	180.6	175.3	166.2	161.6	160.8
75°	4311.9	3672.4	1234.0	253.1	185.2	157.8	150.9	148.6	141.0	134.9	133.4
77.5°	1797.3	1635.0	575.5	183.7	141.0	127.3	121.2	121.2	112.8	105.9	102.9
80°	677.6	603.7	272.1	125.8	104.4	94.5	90.7	87.7	80.8	72.4	67.8
82.5°	906.3	592.2	133.4	78.5	68.6	61.0	55.6	53.4	49.5	45.7	42.7
85°	586.9	420.7	60.2	40.4	34.3	25.9	22.9	21.3	19.1	16.8	15.2
87.5°	119.7	141.0	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)