

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: P632697

Luminaire Tested: GWS-SA2D-730-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10448.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

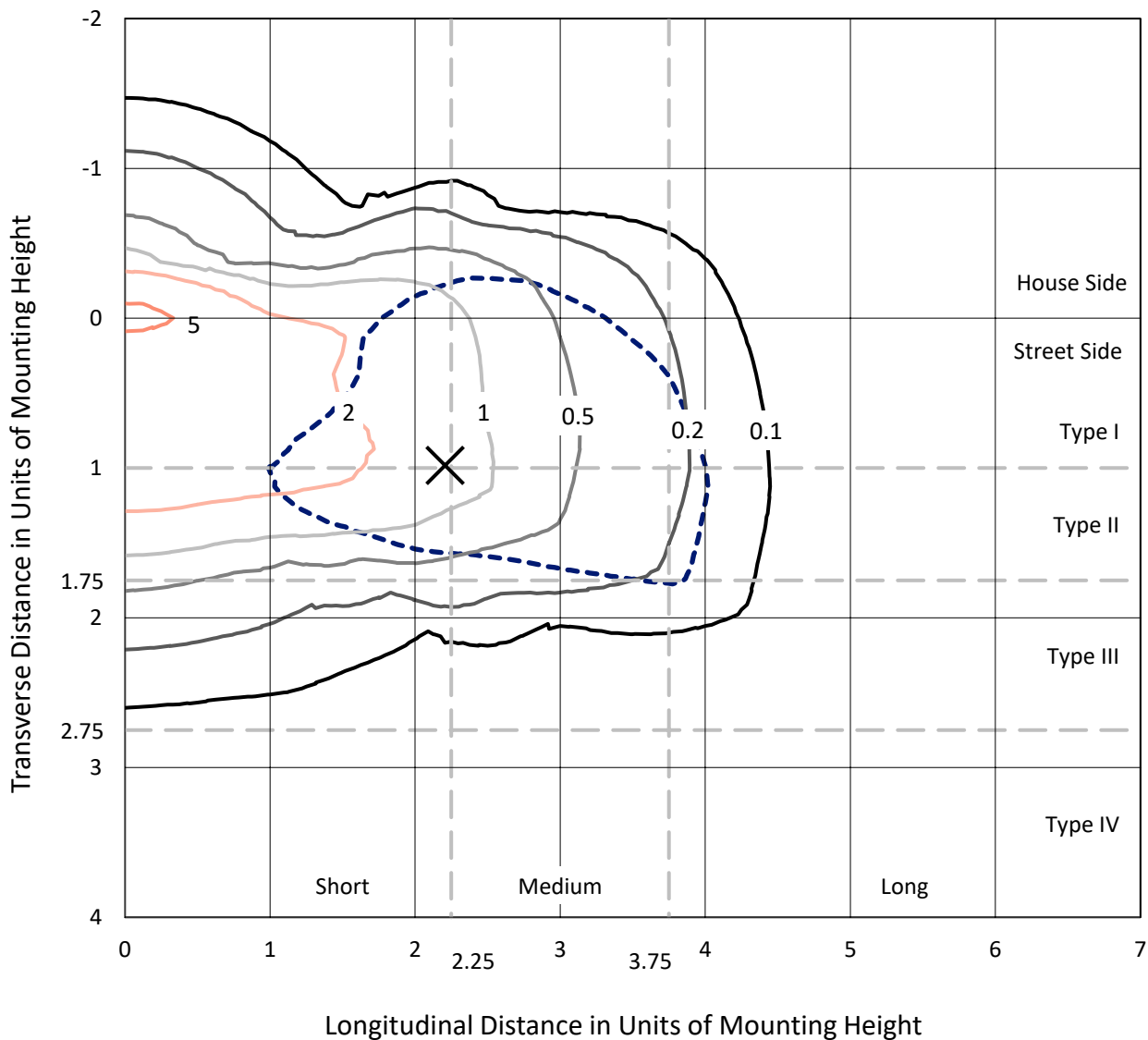
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

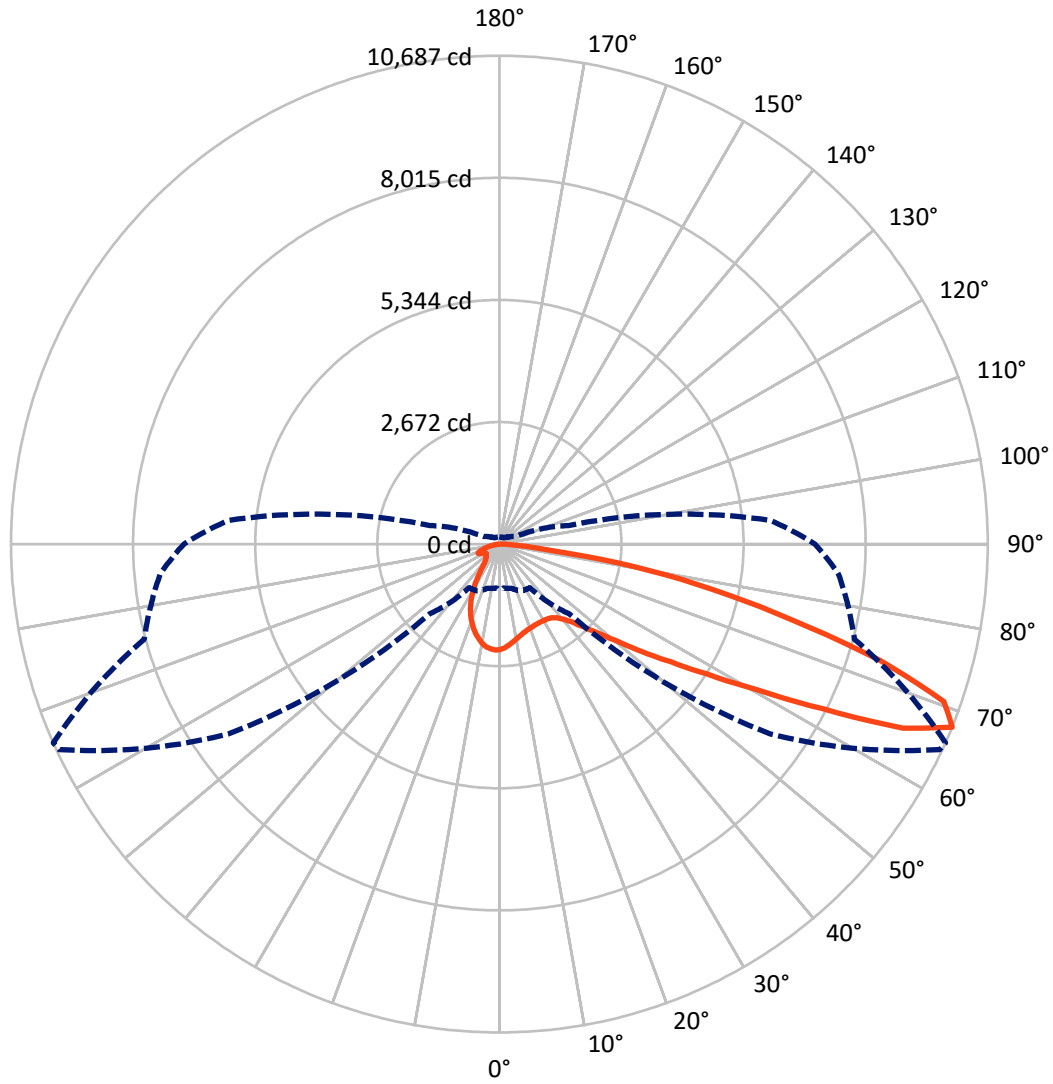
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2120.2	0.0	2120.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8328.2	0.0	8328.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	10448.4	0.0	10448.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	1.9
10°-20°	498.0	4.8
20°-30°	684.5	6.6
30°-40°	935.8	9.0
40°-50°	1418.0	13.6
50°-60°	2204.3	21.1
60°-70°	2683.7	25.7
70°-80°	1634.8	15.6
80°-90°	186.7	1.8
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°	10448.4	100.0
0°-180°	10448.4	100.0

Coefficient of Utilization



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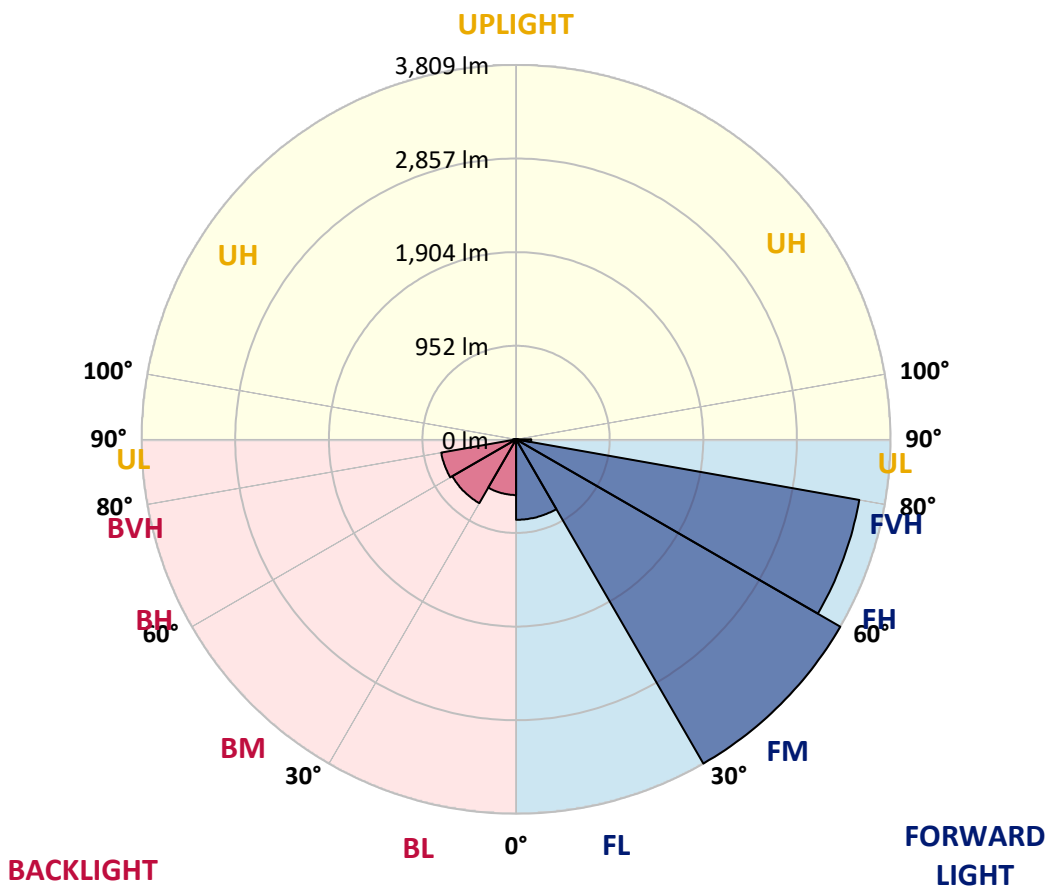
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.7	7.8			
FM (30°-60°)	3808.8	36.5			
FH (60°-80°)	3545.4	33.9			G2/5000
FVH (80°-90°)	155.3	1.5			G2/225
BL (0°-30°)	566.4	5.4	B2/1000		
BM (30°-60°)	749.3	7.2	B1/1000		
BH (60°-80°)	773.1	7.4	B2/1000		G2/1000
BVH (80°-90°)	31.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8
2.5°	2162.5	2170.1	2165.5	2194.5	2196.0	2232.6	2253.2	2270.7	2272.2	2295.1	2310.3
5°	2014.6	2019.2	2019.2	2046.6	2064.9	2113.7	2160.9	2211.2	2215.0	2269.9	2311.8
7.5°	1894.9	1899.5	1896.4	1933.0	1956.6	2010.8	2071.0	2148.0	2155.6	2244.0	2317.2
10°	1801.2	1799.6	1807.3	1840.8	1871.3	1936.1	2003.1	2090.8	2102.2	2214.3	2323.3
12.5°	1737.1	1738.7	1743.2	1778.3	1811.1	1875.1	1944.5	2039.7	2051.9	2180.0	2320.2
15°	1706.6	1703.6	1707.4	1739.4	1770.7	1827.1	1898.7	1997.0	2009.2	2149.5	2321.0
17.5°	1699.8	1697.5	1696.7	1719.6	1743.2	1795.8	1864.4	1964.3	1977.2	2129.7	2325.6
20°	1721.1	1718.1	1709.7	1719.6	1729.5	1773.7	1840.0	1940.6	1955.1	2116.7	2334.7
22.5°	1779.8	1774.5	1761.5	1749.3	1736.4	1763.0	1824.8	1923.1	1937.6	2108.3	2343.9
25°	1869.0	1864.4	1850.7	1823.3	1776.0	1771.4	1821.7	1915.5	1930.0	2102.2	2347.7
27.5°	1991.7	1984.9	1971.1	1931.5	1854.5	1802.7	1833.2	1914.7	1928.4	2095.4	2343.9
30°	2137.3	2132.7	2125.1	2077.1	1974.2	1869.0	1859.1	1920.8	1931.5	2091.6	2336.2
32.5°	2285.2	2280.6	2286.7	2263.8	2137.3	1978.8	1915.5	1937.6	1945.2	2090.8	2329.4
35°	2415.5	2420.8	2465.1	2468.9	2344.6	2127.4	2004.7	1976.5	1978.0	2106.0	2332.4
37.5°	2552.0	2572.5	2630.5	2680.0	2576.3	2324.0	2137.3	2049.6	2048.1	2144.9	2351.5
40°	2732.6	2741.7	2815.7	2908.7	2843.9	2593.9	2325.6	2169.3	2158.6	2224.2	2402.6
42.5°	2908.7	2930.8	3048.9	3155.6	3134.3	2898.0	2562.6	2348.4	2329.4	2364.4	2507.7
45°	3132.8	3154.1	3286.7	3423.9	3462.8	3241.8	2866.0	2603.0	2584.0	2575.6	2700.6
47.5°	3356.9	3379.0	3497.9	3696.1	3832.5	3671.7	3260.8	2939.2	2907.9	2875.1	2991.8
50°	3507.8	3533.7	3647.3	3885.1	4205.2	4208.3	3728.8	3379.7	3340.1	3288.3	3401.8
52.5°	3502.5	3519.2	3627.5	3901.9	4473.5	4824.9	4355.4	3940.7	3908.7	3795.9	3895.0
55°	3227.3	3252.4	3361.4	3704.4	4502.5	5409.6	5276.2	4602.4	4545.2	4343.2	4452.2
57.5°	2674.7	2696.0	2805.8	3228.8	4245.6	5709.1	6445.4	5445.4	5366.9	4939.3	5065.0
60°	2019.2	1993.2	2045.1	2415.5	3631.3	5716.7	7477.5	6588.7	6457.6	5576.5	5681.7
62.5°	1515.3	1489.4	1500.8	1605.3	2462.0	5254.8	8065.9	8152.8	7936.4	6296.0	6275.5
65°	1197.5	1183.0	1215.8	1287.4	1435.3	4001.7	8070.5	9844.2	9707.8	7129.9	6884.5
67.5°	975.7	966.5	1000.0	1132.7	1163.9	2150.3	7236.6	10633.9	10687.3	8043.1	7449.3
70°	785.9	772.1	824.7	999.3	1082.4	1301.1	5183.9	10231.4	10317.6	8587.3	7290.0
72.5°	542.7	543.5	570.1	809.5	1045.0	1123.5	2932.3	8519.5	8706.2	8094.1	6408.8
75°	365.9	368.9	376.5	534.3	962.7	1090.0	1562.6	6450.0	6581.9	6690.1	5297.5
77.5°	221.0	222.6	240.1	323.2	663.9	1017.6	1058.7	4675.5	4779.2	4410.3	3283.7
80°	128.1	133.4	149.4	216.5	448.2	764.5	819.4	2866.8	2984.1	1960.5	1043.5
82.5°	56.4	60.2	81.6	125.8	261.4	650.2	639.5	1132.7	1115.9	546.5	362.1
85°	9.9	12.2	17.5	39.6	96.0	343.0	496.2	500.0	470.3	207.3	150.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	74.7	134.2	133.4	58.7	51.8
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°	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8	2308.8
2.5°	2320.2	2299.7	2317.9	2320.2	2316.4	2313.4	2290.5	2270.7	2268.4	2247.1	2247.1
5°	2328.6	2309.6	2318.7	2301.2	2273.7	2245.5	2196.8	2163.2	2148.0	2120.5	2120.5
7.5°	2340.1	2320.2	2309.6	2266.1	2202.1	2140.3	2061.8	1996.3	1969.6	1930.7	1929.2
10°	2350.7	2325.6	2289.0	2204.4	2102.2	2003.9	1889.6	1796.6	1733.3	1686.8	1686.8
12.5°	2350.0	2317.2	2244.8	2119.8	1978.8	1836.2	1683.8	1543.5	1459.7	1387.3	1382.7
15°	2348.4	2303.5	2188.4	2021.4	1834.7	1637.3	1429.9	1247.0	1122.8	1051.9	1045.8
17.5°	2346.9	2285.9	2125.1	1909.4	1659.4	1390.3	1116.7	918.5	814.8	771.4	772.9
20°	2346.9	2266.1	2057.3	1780.6	1457.4	1094.6	819.4	675.3	649.4	651.7	654.0
22.5°	2340.1	2241.7	1981.8	1640.3	1232.5	804.9	604.4	555.7	569.4	590.7	593.8
25°	2324.0	2201.3	1894.1	1484.8	965.0	586.2	493.2	484.0	509.2	535.8	543.5
27.5°	2298.9	2154.8	1795.8	1302.7	710.4	471.1	433.7	432.9	452.8	472.6	479.4
30°	2272.2	2103.0	1692.2	1099.9	514.5	410.1	395.6	395.6	405.5	417.7	416.2
32.5°	2241.0	2050.4	1580.9	888.8	419.2	375.8	371.2	368.9	370.4	375.0	375.0
35°	2214.3	2003.9	1466.5	665.4	375.8	356.7	352.2	346.8	344.5	341.5	343.0
37.5°	2204.4	1967.3	1348.4	501.5	354.4	343.0	335.4	327.8	322.4	320.9	320.1
40°	2220.4	1952.1	1230.2	413.1	339.2	328.5	320.1	310.2	305.7	305.7	305.7
42.5°	2282.9	1963.5	1109.8	373.5	328.5	316.3	304.1	295.0	293.5	295.0	295.7
45°	2397.2	2007.7	984.8	353.7	319.4	304.1	289.6	282.8	282.8	284.3	284.3
47.5°	2601.5	2123.6	861.3	341.5	310.2	294.2	279.0	272.1	271.4	272.9	272.9
50°	2955.2	2332.4	750.0	333.1	303.4	286.6	271.4	262.2	259.9	259.2	259.2
52.5°	3401.1	2694.5	679.1	327.0	295.0	278.2	263.0	250.8	246.2	243.9	243.9
55°	3940.0	3177.0	679.1	322.4	284.3	268.3	250.8	238.6	231.7	228.7	228.7
57.5°	4550.5	3738.7	796.5	318.6	275.9	256.9	237.8	225.6	218.0	213.4	213.4
60°	5171.7	4332.5	1086.9	313.3	268.3	242.4	223.3	211.9	202.0	196.7	195.9
62.5°	5815.8	4986.5	1469.6	316.3	263.0	228.7	208.1	195.1	186.7	181.4	180.6
65°	6405.8	5609.3	1804.2	340.0	263.7	216.5	190.6	179.1	172.3	165.4	164.6
67.5°	6906.6	5953.0	1569.4	388.0	279.7	202.0	173.0	161.6	155.5	150.9	150.2
70°	6556.0	5428.6	890.3	417.7	301.8	186.7	153.2	145.6	139.5	136.4	135.7
72.5°	5606.2	4596.3	595.3	368.9	275.2	166.9	134.9	128.8	124.2	120.4	119.7
75°	4541.4	3645.0	455.1	302.6	214.2	135.7	115.9	111.3	106.7	102.9	102.1
77.5°	2686.9	2106.0	335.4	239.3	150.9	106.0	96.0	92.2	87.7	84.6	83.8
80°	857.5	731.7	212.7	164.6	99.9	81.6	73.9	70.9	66.3	62.5	61.7
82.5°	327.0	282.8	112.8	83.8	66.3	55.6	49.5	46.5	43.4	39.6	38.9
85°	144.8	135.7	62.5	45.0	35.8	27.4	24.4	22.9	19.1	16.0	15.2
87.5°	51.1	51.1	26.7	13.0	7.6	3.8	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)