

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: P632822

Luminaire Tested: GWS-SA2D-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632822
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-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11654.8 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

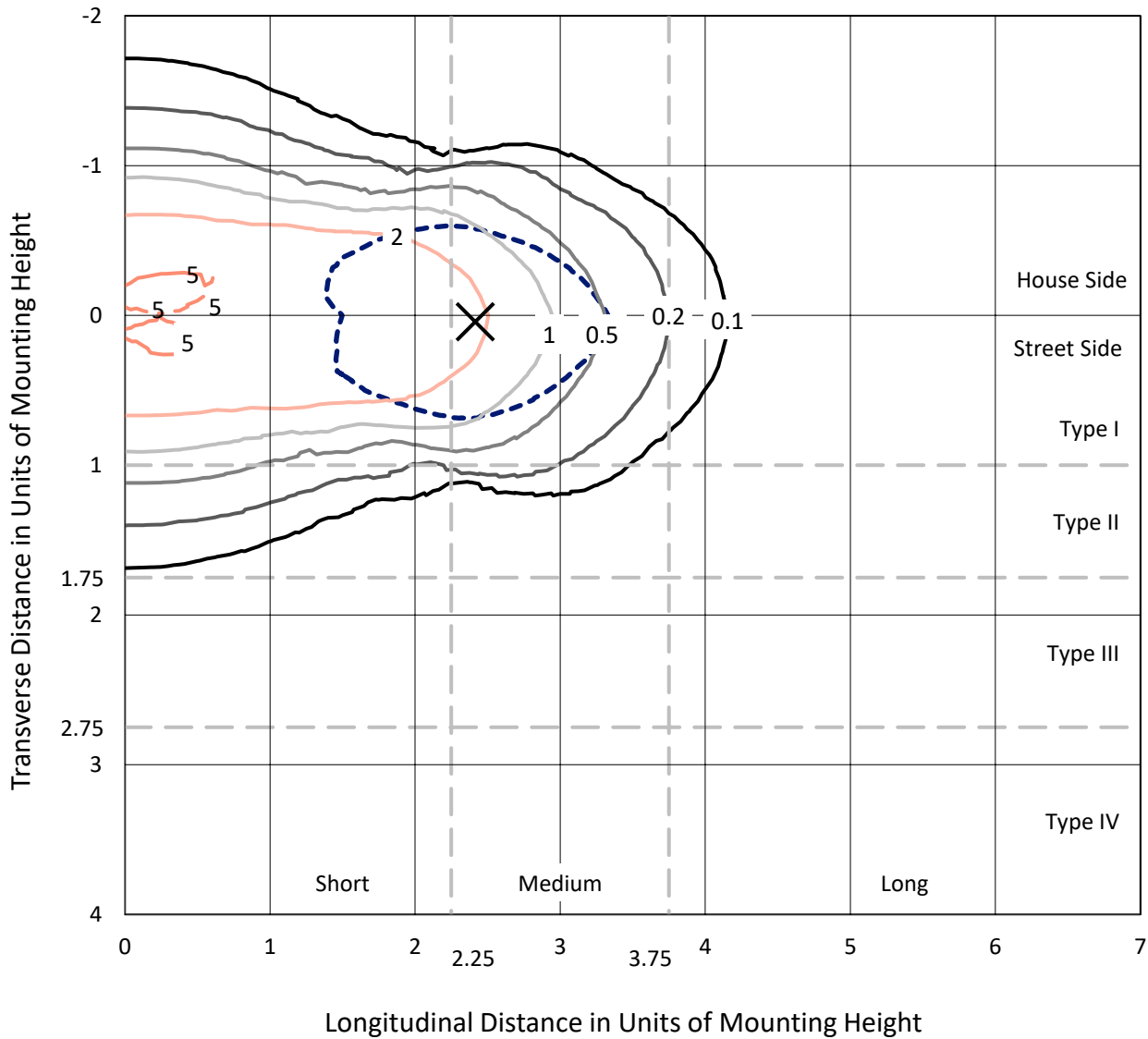
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

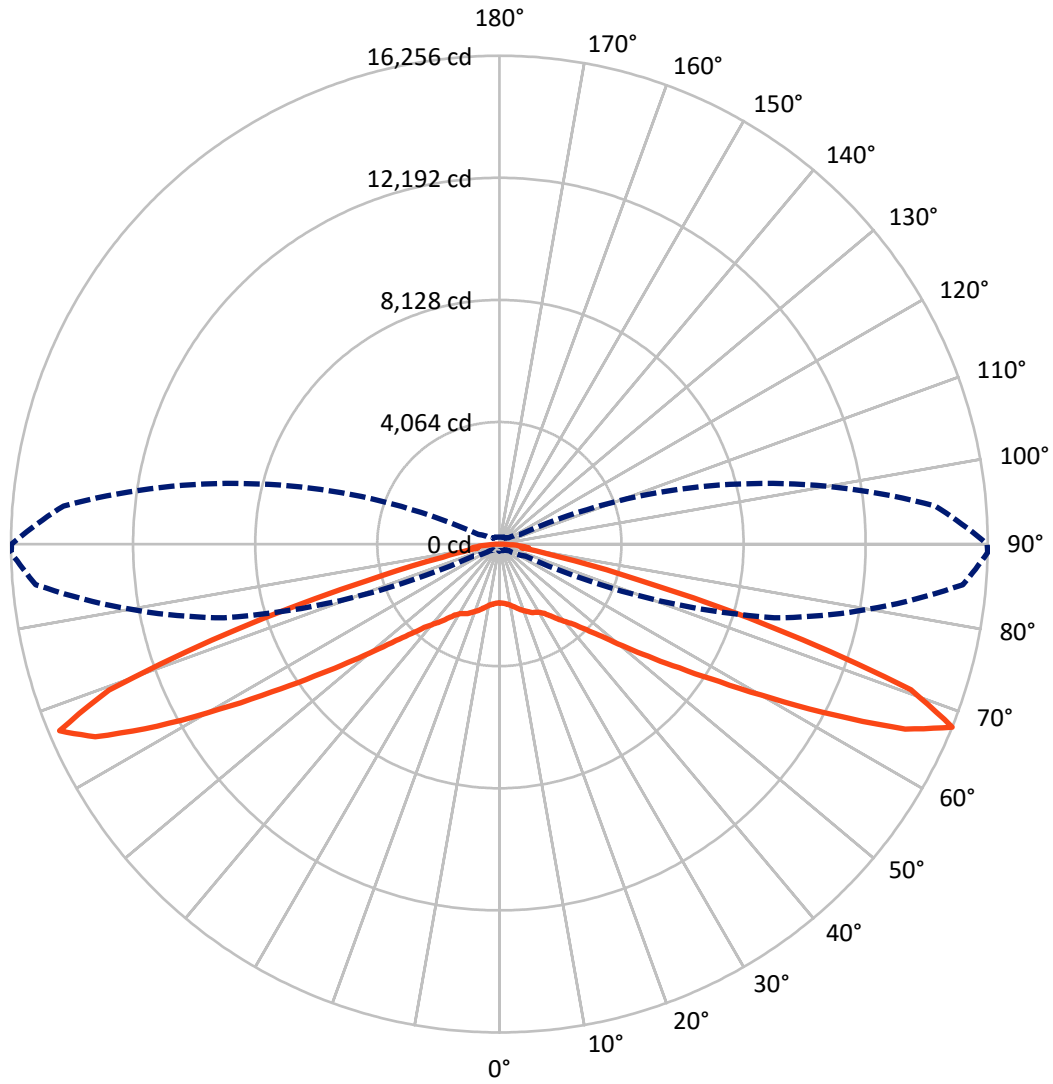
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	5776.3	0.0	5776.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5878.5	0.0	5878.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	11654.8	0.0	11654.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	1.7
10°-20°	638.9	5.5
20°-30°	1080.1	9.3
30°-40°	1482.2	12.7
40°-50°	1890.2	16.2
50°-60°	2371.5	20.3
60°-70°	2860.3	24.5
70°-80°	1034.8	8.9
80°-90°	100.6	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°	11654.8	100.0
0°-180°	11654.8	100.0

Coefficient of Utilization



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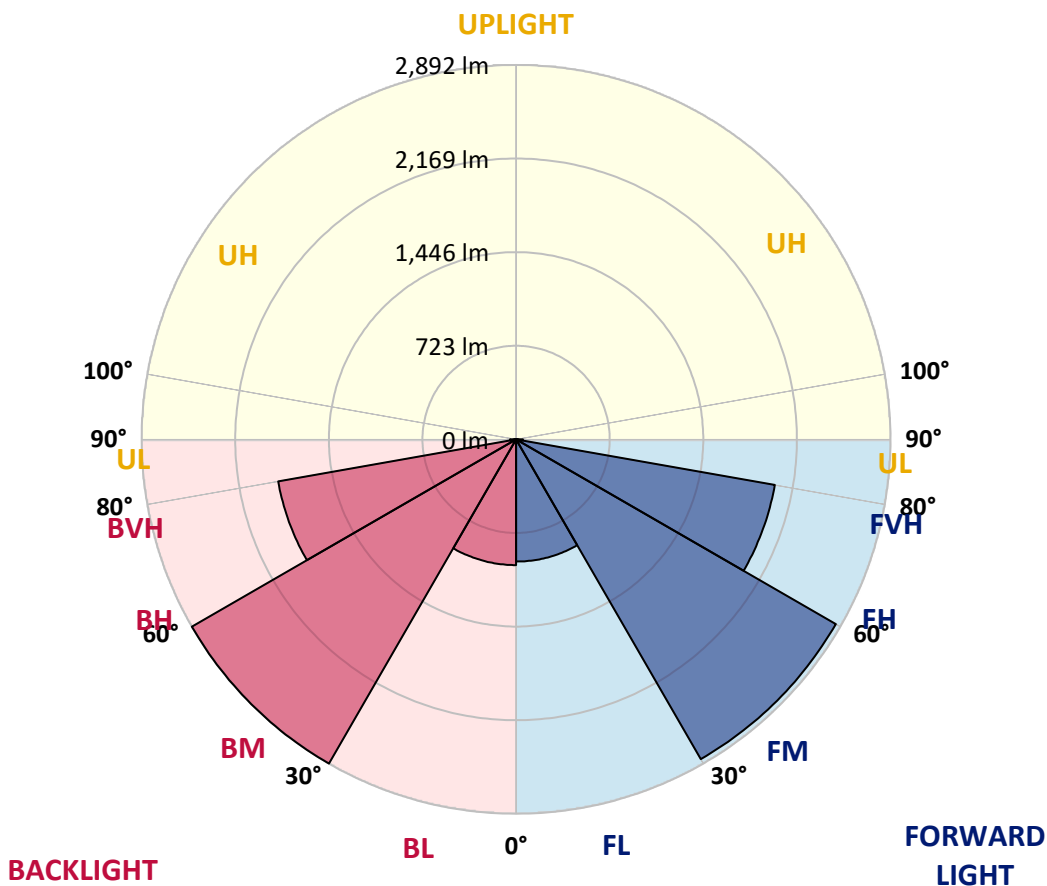
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.0	8.1			
FM (30°-60°)	2852.2	24.5			
FH (60°-80°)	2029.3	17.4			G2/5000
FVH (80°-90°)	53.1	0.5			G1/100
BL (0°-30°)	971.2	8.3	B2/1000		
BM (30°-60°)	2891.8	24.8	B3/5000		
BH (60°-80°)	1865.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	47.5	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°	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2
2.5°	1962.0	1960.3	1956.2	1968.7	1966.2	1967.0	1972.1	1968.7	1962.9	1952.8	1967.0
5°	2017.3	2016.4	2007.2	2014.8	2006.4	2000.5	1999.7	1991.3	1984.6	1973.7	1988.8
7.5°	2070.8	2070.0	2062.5	2075.9	2069.2	2062.5	2054.9	2038.2	2022.3	2006.4	2023.1
10°	2111.9	2111.0	2109.3	2128.6	2130.3	2132.8	2129.4	2101.0	2073.4	2054.1	2070.8
12.5°	2135.3	2137.8	2142.0	2177.1	2194.7	2211.5	2215.6	2192.2	2146.2	2118.6	2138.6
15°	2119.4	2124.4	2145.3	2209.0	2257.5	2295.2	2311.1	2291.8	2232.4	2186.4	2209.0
17.5°	2043.2	2047.4	2088.4	2185.5	2292.7	2379.7	2405.7	2393.9	2327.8	2271.7	2293.5
20°	1937.7	1947.0	1991.3	2126.9	2286.8	2438.3	2507.8	2503.6	2431.6	2345.4	2371.3
22.5°	1842.3	1853.2	1900.1	2049.9	2247.5	2453.4	2610.7	2621.6	2526.2	2419.0	2440.0
25°	1735.2	1745.2	1805.5	1958.7	2179.7	2441.6	2698.6	2748.0	2633.3	2503.6	2522.8
27.5°	1625.5	1633.1	1692.5	1855.7	2090.9	2419.9	2768.1	2887.0	2738.8	2562.2	2575.6
30°	1529.3	1539.3	1593.7	1752.8	1993.8	2376.4	2825.0	3035.1	2860.2	2628.3	2639.2
32.5°	1436.4	1444.7	1504.2	1651.5	1890.9	2309.4	2876.1	3209.2	3040.1	2751.4	2751.4
35°	1319.2	1334.2	1401.2	1554.4	1793.8	2220.7	2912.9	3411.8	3286.2	2933.0	2933.8
37.5°	1211.2	1219.6	1289.9	1444.7	1691.7	2120.2	2916.3	3621.9	3597.6	3164.0	3165.7
40°	1088.2	1099.0	1174.4	1327.5	1574.5	2014.8	2884.4	3817.7	3924.0	3401.7	3392.5
42.5°	963.4	979.3	1051.3	1201.2	1448.1	1885.9	2799.9	4004.4	4338.4	3677.1	3654.5
45°	842.9	852.9	924.9	1066.4	1303.3	1731.8	2664.3	4183.5	4830.6	4095.6	4063.0
47.5°	707.3	711.5	786.0	921.6	1153.4	1560.2	2470.1	4343.4	5371.3	4649.8	4593.7
50°	586.8	592.6	651.2	767.6	970.1	1356.8	2228.2	4437.2	6060.2	5405.6	5308.5
52.5°	474.6	480.5	527.3	620.2	801.9	1125.0	1928.5	4415.4	6759.1	6343.9	6202.5
55°	383.4	387.5	419.4	492.2	631.1	894.8	1574.5	4220.4	7535.0	7569.4	7264.7
57.5°	323.9	325.6	347.4	391.7	493.0	689.7	1215.4	3760.0	8348.6	9133.0	8632.4
60°	289.6	290.5	300.5	328.1	389.2	526.5	890.6	3026.7	9191.5	11089.1	10402.7
62.5°	267.9	267.9	276.2	292.1	323.1	405.1	654.6	2173.8	9796.7	13217.7	12535.5
65°	246.9	246.9	252.8	266.2	282.9	330.6	491.3	1402.0	10093.9	14997.3	14845.8
67.5°	220.1	221.0	225.2	239.4	254.5	276.2	372.5	948.4	9477.0	15489.4	16256.2
70°	195.0	195.9	201.7	210.9	223.5	238.6	291.3	653.7	6898.1	12900.5	14535.2
72.5°	167.4	170.8	174.9	185.0	192.5	203.4	237.7	423.5	4013.6	8298.4	9608.4
75°	137.3	141.5	146.5	156.5	161.5	165.7	195.9	302.2	1931.1	4205.3	4788.7
77.5°	106.3	110.5	116.3	125.6	128.9	133.9	149.8	218.5	924.9	1864.1	2009.7
80°	71.1	72.8	77.8	88.7	94.6	97.9	110.5	149.0	401.8	748.3	741.6
82.5°	43.5	44.4	46.0	52.7	55.2	58.6	72.0	91.2	191.7	850.4	975.2
85°	15.9	15.1	14.2	18.4	21.8	25.1	33.5	46.0	83.7	584.3	653.7
87.5°	0.0	0.0	0.0	0.8	1.7	1.7	3.3	6.7	20.1	218.5	149.8
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°	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2
2.5°	1962.9	1953.7	1965.4	1973.7	1992.2	1998.9	2000.5	1994.7	1994.7	1984.6	1986.3
5°	1985.5	1979.6	1998.9	2013.1	2039.9	2049.9	2056.6	2052.4	2054.9	2048.2	2049.9
7.5°	2019.8	2014.8	2048.2	2075.9	2103.5	2115.2	2121.1	2117.7	2118.6	2110.2	2112.7
10°	2067.5	2069.2	2109.3	2145.3	2182.2	2193.9	2196.4	2186.4	2178.0	2162.9	2163.8
12.5°	2132.8	2141.2	2198.1	2238.2	2275.9	2292.7	2274.2	2237.4	2203.1	2177.1	2173.8
15°	2203.9	2219.0	2301.0	2352.1	2393.1	2384.7	2330.3	2247.5	2179.7	2141.2	2133.6
17.5°	2289.3	2311.9	2414.9	2476.0	2511.1	2457.6	2343.7	2219.8	2125.2	2073.4	2063.3
20°	2369.7	2405.7	2535.4	2614.9	2619.1	2498.6	2337.9	2163.8	2044.9	1981.3	1967.9
22.5°	2443.3	2489.4	2661.8	2763.1	2708.7	2517.0	2301.9	2084.2	1947.8	1873.3	1861.6
25°	2523.7	2589.0	2809.1	2903.7	2798.2	2509.4	2226.5	1985.5	1830.6	1754.4	1746.1
27.5°	2578.9	2661.0	2957.3	3047.7	2871.9	2466.8	2129.4	1877.5	1723.5	1651.5	1639.8
30°	2642.5	2747.2	3120.5	3204.2	2917.1	2404.0	2025.6	1777.0	1623.9	1546.0	1537.6
32.5°	2758.0	2889.5	3323.1	3369.9	2931.3	2326.1	1926.0	1679.9	1520.1	1442.2	1430.5
35°	2943.9	3097.9	3607.6	3554.9	2920.4	2240.8	1831.4	1566.1	1413.8	1340.9	1329.2
37.5°	3178.2	3369.9	3924.9	3721.5	2890.3	2147.0	1719.3	1470.7	1318.3	1244.7	1238.0
40°	3396.7	3632.8	4280.6	3865.5	2829.2	2031.5	1611.3	1371.1	1215.4	1137.5	1122.5
42.5°	3670.4	3984.3	4692.5	3990.2	2728.8	1893.4	1489.9	1248.0	1086.5	1016.2	997.8
45°	4086.4	4476.5	5171.2	4109.9	2578.9	1723.5	1337.6	1098.2	945.0	873.0	858.8
47.5°	4605.4	5091.7	5690.2	4181.0	2351.2	1544.3	1165.2	940.0	786.8	705.6	698.9
50°	5334.5	5986.5	6246.8	4168.5	2096.8	1331.7	971.0	751.7	623.6	565.0	555.8
52.5°	6222.6	7109.8	6848.7	4017.8	1826.4	1089.8	756.7	590.1	494.7	452.8	445.3
55°	7336.7	8454.9	7482.3	3694.7	1484.9	834.5	594.3	465.4	400.1	375.0	371.6
57.5°	8716.1	10196.8	8092.5	3150.6	1116.6	637.0	457.9	384.2	353.2	338.2	337.3
60°	10536.7	12045.9	8622.4	2448.3	799.4	487.2	378.3	343.2	318.9	308.9	308.0
62.5°	12701.3	13725.0	8952.2	1667.4	601.0	388.4	333.1	311.4	297.1	291.3	290.5
65°	14926.1	14786.3	8794.8	1092.3	456.2	329.8	298.8	287.1	274.5	268.7	268.7
67.5°	16240.3	14562.0	7586.9	758.4	361.6	289.6	269.5	258.6	237.7	232.7	232.7
70°	14384.5	11799.8	4972.9	555.0	293.0	253.6	234.4	219.3	210.9	205.9	205.1
72.5°	9513.8	7678.2	2644.2	385.0	244.4	216.0	198.4	192.5	182.5	177.5	176.6
75°	4735.1	4032.9	1355.2	277.9	203.4	173.3	165.7	163.2	154.9	148.2	146.5
77.5°	1973.7	1795.5	632.0	201.7	154.9	139.8	133.1	133.1	123.9	116.3	113.0
80°	744.1	662.9	298.8	138.1	114.7	103.8	99.6	96.3	88.7	79.5	74.5
82.5°	995.2	650.4	146.5	86.2	75.3	67.0	61.1	58.6	54.4	50.2	46.9
85°	644.5	462.0	66.1	44.4	37.7	28.5	25.1	23.4	20.9	18.4	16.7
87.5°	131.4	154.9	20.1	8.4	5.0	2.5	2.5	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)