

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: P632783

Luminaire Tested: GWS-SA2D-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11707.2 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

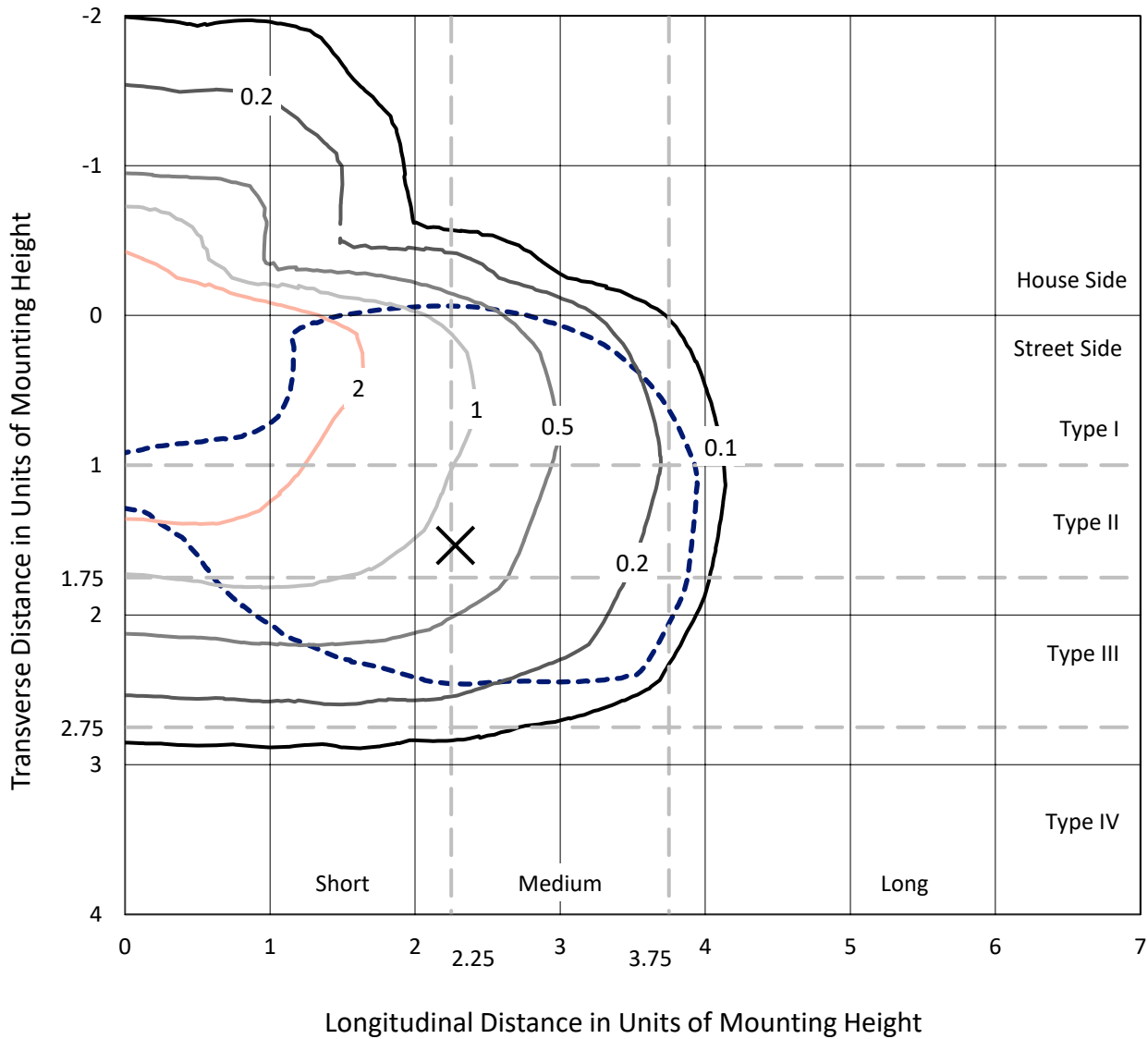
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

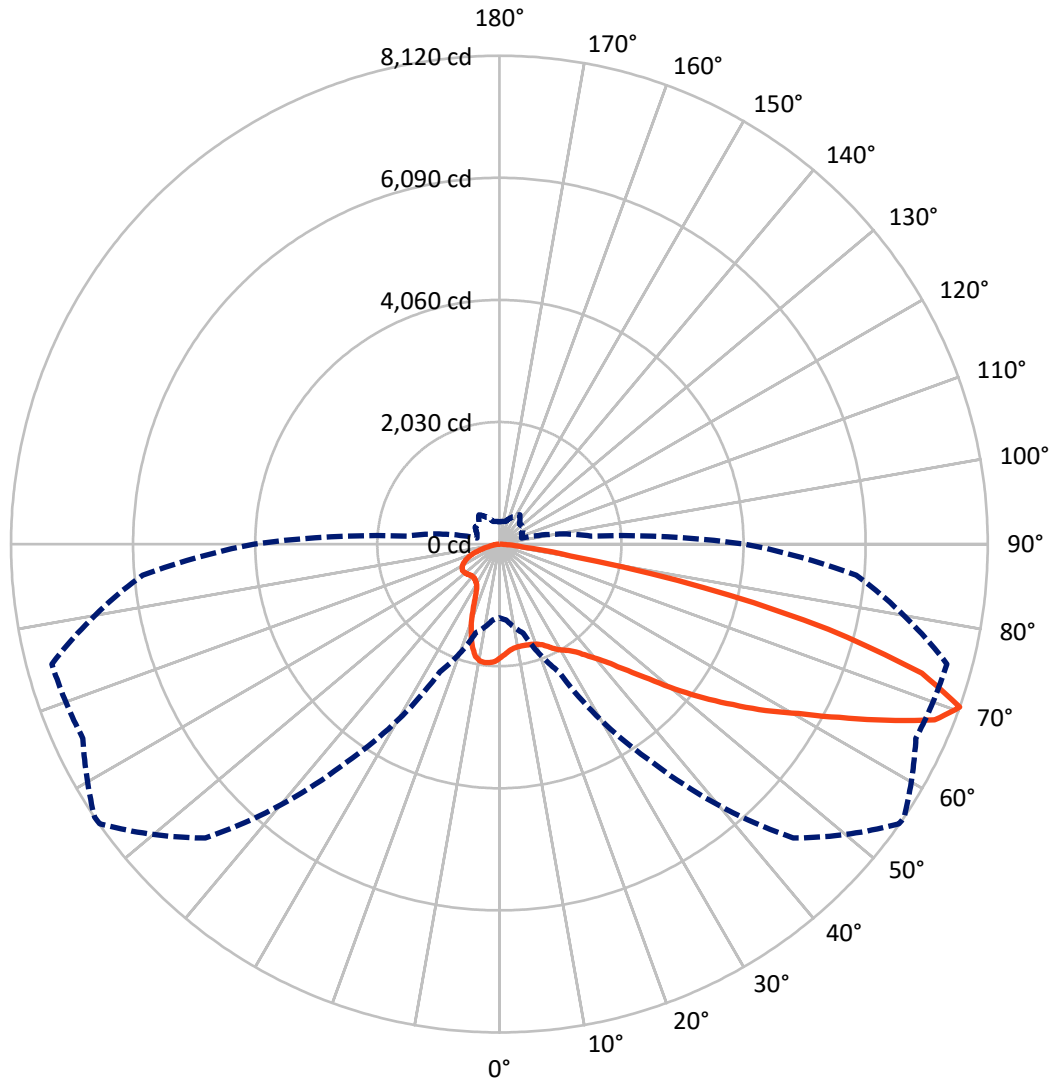
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2250.7	0.0	2250.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	9456.5	0.0	9456.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	11707.2	0.0	11707.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.5
10°-20°	473.8	4.0
20°-30°	783.4	6.7
30°-40°	1171.2	10.0
40°-50°	1742.9	14.9
50°-60°	2478.0	21.2
60°-70°	3069.0	26.2
70°-80°	1694.6	14.5
80°-90°	119.4	1.0
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°	11707.2	100.0
0°-180°	11707.2	100.0

Coefficient of Utilization



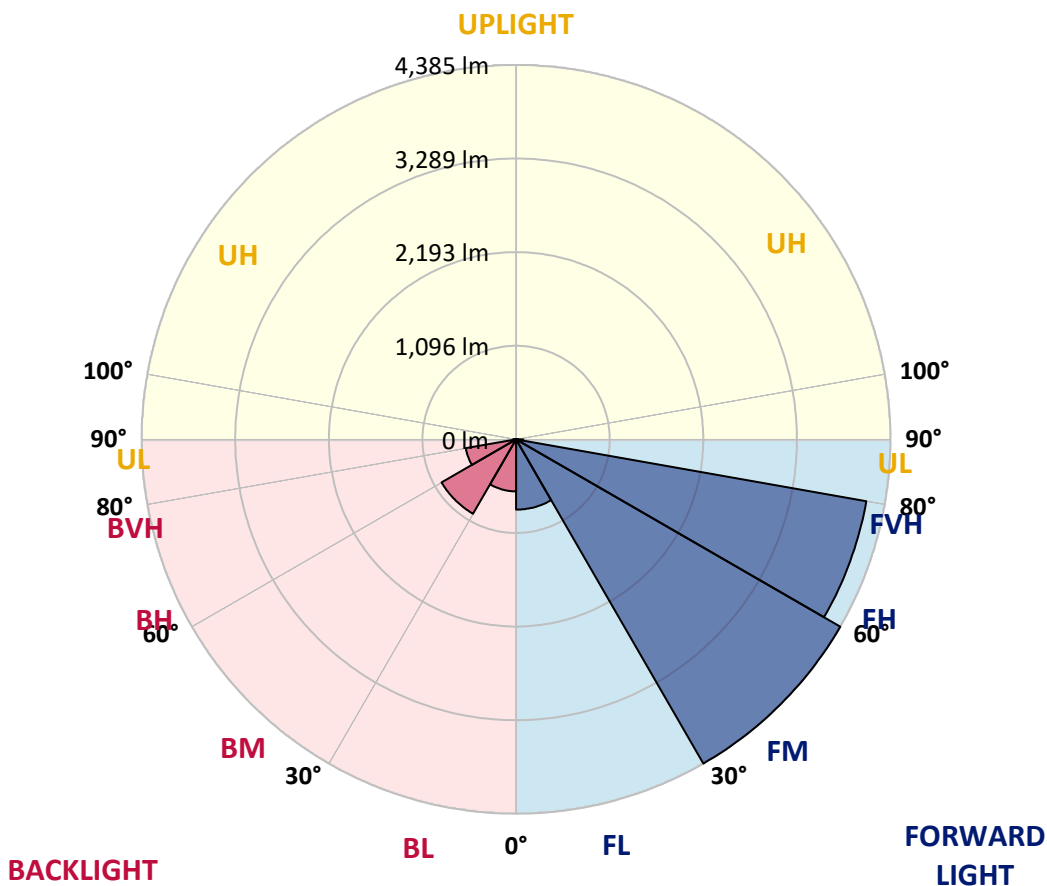
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.8	7.0			
FM (30°-60°)	4385.3	37.5			
FH (60°-80°)	4165.4	35.6			G2/5000
FVH (80°-90°)	82.9	0.7			G1/100
BL (0°-30°)	609.3	5.2	B2/1000		
BM (30°-60°)	1006.8	8.6	B2/2500		
BH (60°-80°)	598.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	36.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7
2.5°	1768.4	1758.5	1770.0	1775.8	1790.7	1812.1	1831.1	1831.9	1841.8	1865.8	1888.9
5°	1688.3	1683.3	1686.6	1704.0	1719.7	1746.9	1775.8	1778.3	1806.3	1853.4	1899.6
7.5°	1626.4	1619.8	1632.1	1654.4	1674.2	1704.8	1742.8	1746.1	1785.7	1856.7	1927.7
10°	1537.2	1532.3	1555.4	1585.1	1628.0	1678.4	1728.7	1732.9	1784.9	1878.2	1977.2
12.5°	1498.4	1498.4	1508.3	1536.4	1583.4	1650.3	1726.3	1732.9	1798.1	1911.2	2040.8
15°	1558.7	1562.8	1554.5	1552.9	1571.9	1635.4	1729.6	1739.5	1822.9	1945.0	2103.5
17.5°	1680.0	1684.2	1662.7	1628.8	1609.9	1649.5	1741.9	1752.7	1849.3	1982.2	2171.2
20°	1850.1	1855.0	1808.0	1756.0	1690.8	1689.9	1765.9	1775.8	1883.1	2022.6	2243.1
22.5°	2049.1	2052.4	1992.9	1910.4	1810.5	1765.1	1807.2	1817.1	1926.9	2078.8	2320.7
25°	2279.4	2289.3	2217.5	2097.8	1962.4	1868.3	1875.7	1887.2	2005.3	2153.9	2412.3
27.5°	2525.4	2537.8	2455.2	2323.1	2136.6	1982.2	1964.0	1973.9	2088.7	2200.1	2461.0
30°	2777.2	2786.3	2703.7	2552.7	2324.0	2111.0	2038.3	2044.1	2125.0	2222.4	2510.5
32.5°	3057.1	3049.6	2970.4	2796.2	2540.3	2265.4	2107.7	2106.0	2165.5	2267.0	2581.5
35°	3319.6	3330.3	3246.1	3053.8	2778.0	2456.1	2211.7	2205.1	2251.3	2339.7	2681.4
37.5°	3637.4	3634.1	3533.4	3325.4	3016.6	2638.5	2357.8	2346.3	2362.8	2452.8	2821.0
40°	3864.5	3887.6	3822.4	3628.4	3295.7	2863.1	2528.7	2503.1	2507.2	2592.3	3007.5
42.5°	4050.2	4071.7	4078.3	3954.5	3615.2	3140.5	2741.7	2716.1	2718.6	2839.1	3237.0
45°	4193.1	4221.9	4315.2	4278.9	3975.1	3460.8	3029.8	3003.4	3005.1	3138.8	3514.4
47.5°	4251.7	4283.0	4472.1	4558.8	4357.3	3843.8	3388.1	3349.3	3355.1	3502.9	3831.5
50°	4232.7	4274.8	4530.7	4774.3	4677.7	4233.5	3816.6	3789.4	3767.1	3981.7	4175.7
52.5°	4069.2	4115.4	4524.9	4911.3	4939.4	4601.7	4259.1	4243.4	4238.5	4490.3	4560.4
55°	3587.9	3665.5	4326.0	4947.6	5144.1	4948.4	4738.8	4712.3	4737.9	5035.1	4949.3
57.5°	3321.3	3379.0	3936.3	4907.2	5311.7	5278.7	5217.6	5220.1	5249.0	5627.1	5420.7
60°	3169.4	3237.0	3720.0	4796.5	5472.7	5679.9	5718.7	5718.7	5770.7	6265.2	5899.5
62.5°	2967.9	3036.4	3517.7	4583.5	5621.3	6152.1	6348.6	6346.1	6366.8	6949.6	6367.6
65°	2559.3	2622.8	3111.6	4247.5	5693.9	6672.2	7064.4	7056.9	7015.7	7558.9	6677.2
67.5°	1858.4	1918.6	2383.4	3608.6	5432.2	7091.6	7801.6	7804.9	7558.1	7942.8	6693.7
70°	1225.1	1266.4	1532.3	2343.8	4417.6	6910.8	8110.4	8120.3	7641.4	7703.4	5957.3
72.5°	764.5	793.4	956.8	1397.7	2610.4	5470.2	7317.8	7345.1	6874.5	6769.6	4894.8
75°	507.7	527.5	636.5	814.8	1207.8	2960.5	5562.7	5650.2	5509.8	5306.7	3410.4
77.5°	305.5	322.0	405.4	517.6	535.0	1156.6	3247.0	3473.2	3493.0	2770.6	1428.2
80°	139.5	158.5	223.7	295.6	284.8	402.9	1145.1	1197.9	1413.4	880.1	450.8
82.5°	82.6	90.8	148.6	147.0	121.4	195.7	412.0	422.7	359.1	322.0	192.4
85°	33.0	38.8	62.7	55.3	44.6	63.6	155.2	162.6	156.0	140.3	71.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	14.0	14.9	21.5	38.8	21.5
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°	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7	1889.7
2.5°	1903.8	1898.8	1923.6	1942.6	1950.8	1959.1	1951.6	1949.2	1949.2	1932.7	1924.4
5°	1924.4	1926.9	1960.7	1976.4	1976.4	1969.8	1950.0	1936.0	1931.0	1909.5	1903.8
7.5°	1963.2	1973.9	2005.3	2004.5	1981.4	1945.0	1895.5	1857.5	1822.9	1808.0	1798.9
10°	2026.8	2040.8	2062.3	2027.6	1963.2	1867.4	1762.6	1680.0	1630.5	1590.9	1590.9
12.5°	2099.4	2112.6	2108.5	2028.4	1895.5	1716.4	1565.3	1470.3	1401.0	1364.7	1364.7
15°	2172.1	2182.8	2138.2	1990.4	1754.3	1515.7	1350.6	1236.7	1176.4	1142.6	1142.6
17.5°	2245.5	2244.7	2150.6	1902.9	1570.2	1293.7	1131.9	1043.5	1022.9	1017.1	1016.3
20°	2316.5	2297.6	2134.9	1756.8	1356.4	1069.9	967.6	973.3	1003.9	1017.1	1018.7
22.5°	2396.6	2349.6	2088.7	1570.2	1113.7	914.7	921.3	969.2	1013.8	1033.6	1036.1
25°	2478.4	2394.1	2011.1	1351.5	910.6	857.8	908.9	962.6	1013.0	1038.6	1041.0
27.5°	2511.4	2394.1	1879.0	1098.0	802.5	833.8	890.0	942.0	994.8	1024.5	1030.3
30°	2538.6	2373.5	1694.1	869.3	757.9	810.7	859.4	907.3	959.3	995.6	1002.2
32.5°	2576.6	2355.3	1470.3	730.6	737.2	788.4	822.3	862.7	909.8	933.7	931.2
35°	2621.2	2327.3	1200.4	664.6	719.9	769.4	793.4	817.3	795.8	795.0	797.5
37.5°	2684.7	2302.5	965.1	634.9	708.3	756.2	776.0	724.8	695.1	682.7	677.8
40°	2776.4	2292.6	761.2	617.5	706.7	755.4	741.4	662.1	621.7	578.7	577.9
42.5°	2892.0	2285.2	629.1	609.3	712.5	774.4	693.5	620.8	537.4	518.5	516.8
45°	3040.6	2273.6	563.0	607.6	726.5	789.2	688.5	563.9	506.9	498.6	498.6
47.5°	3219.7	2255.4	533.3	607.6	742.2	782.6	673.7	551.5	492.9	501.9	507.7
50°	3425.3	2232.3	517.6	606.0	757.9	782.6	642.3	549.0	489.6	536.6	555.6
52.5°	3644.9	2205.9	506.9	599.4	768.6	783.5	643.9	557.3	492.9	544.9	560.6
55°	3887.6	2201.8	492.0	585.3	771.9	762.0	648.1	575.4	497.8	493.7	494.5
57.5°	4193.9	2251.3	481.3	564.7	758.7	718.2	656.3	588.6	492.0	492.9	498.6
60°	4514.2	2344.6	490.4	544.9	731.5	677.0	662.1	582.0	464.0	450.8	452.4
62.5°	4786.6	2415.6	497.8	535.8	691.8	640.6	656.3	567.2	448.3	445.0	452.4
65°	4900.6	2357.0	479.7	516.8	634.0	596.1	643.9	548.2	435.1	422.7	423.5
67.5°	4774.3	2082.1	444.2	474.7	568.8	539.1	624.1	523.4	416.9	402.1	398.7
70°	4078.3	1529.8	383.1	407.8	489.6	472.2	593.6	491.2	388.0	377.3	369.9
72.5°	3286.6	1083.1	317.8	324.4	383.9	397.9	540.7	450.8	355.0	324.4	313.7
75°	2287.6	680.3	265.0	258.4	277.4	303.8	421.9	374.0	306.3	274.1	264.2
77.5°	984.1	349.2	207.2	203.9	184.9	210.5	323.6	312.1	256.8	219.6	213.8
80°	329.4	202.3	149.4	143.6	123.0	147.8	227.9	249.3	201.4	162.6	152.7
82.5°	165.1	117.2	94.9	85.9	82.6	93.3	134.6	155.2	139.5	112.3	94.9
85°	80.9	66.9	52.0	51.2	42.9	40.5	56.1	66.0	62.7	46.2	43.8
87.5°	29.7	26.4	16.5	13.2	8.3	5.8	3.3	3.3	2.5	2.5	2.5
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)