

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: P637533

Luminaire Tested: GWS-SA4D-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18569.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

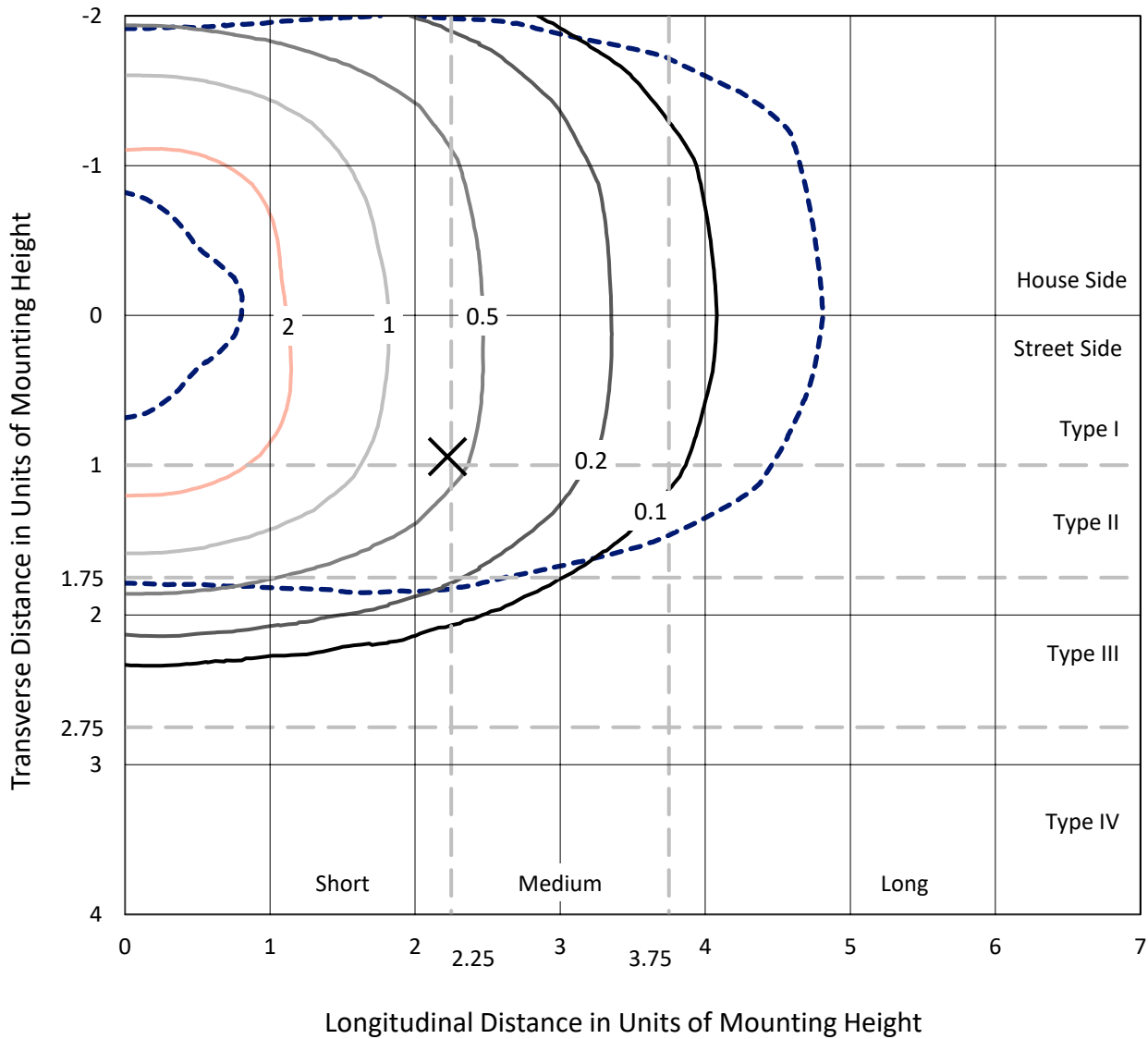
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637533
 CATALOG NUMBER: GWS-SA4D-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

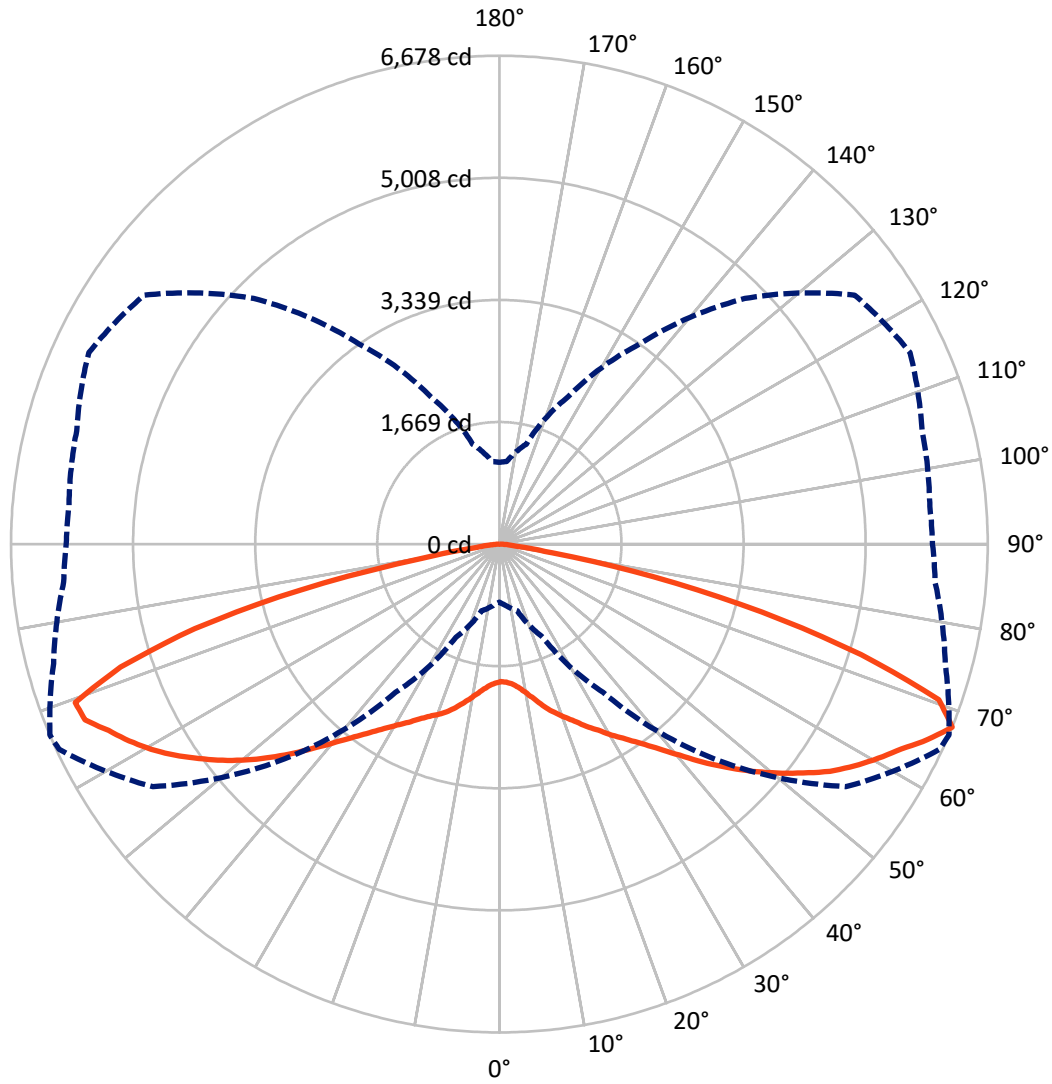
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P637533
CATALOG NUMBER: GWS-SA4D-722-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637533

CATALOG NUMBER: GWS-SA4D-722-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9182.2	0.0	9182.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9387.1	0.0	9387.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	18569.3	0.0	18569.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.0
10°-20°	623.2	3.4
20°-30°	1222.8	6.6
30°-40°	2083.2	11.2
40°-50°	3345.2	18.0
50°-60°	4545.4	24.5
60°-70°	4348.0	23.4
70°-80°	2067.2	11.1
80°-90°	149.8	0.8
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°	18569.3	100.0
0°-180°	18569.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637533

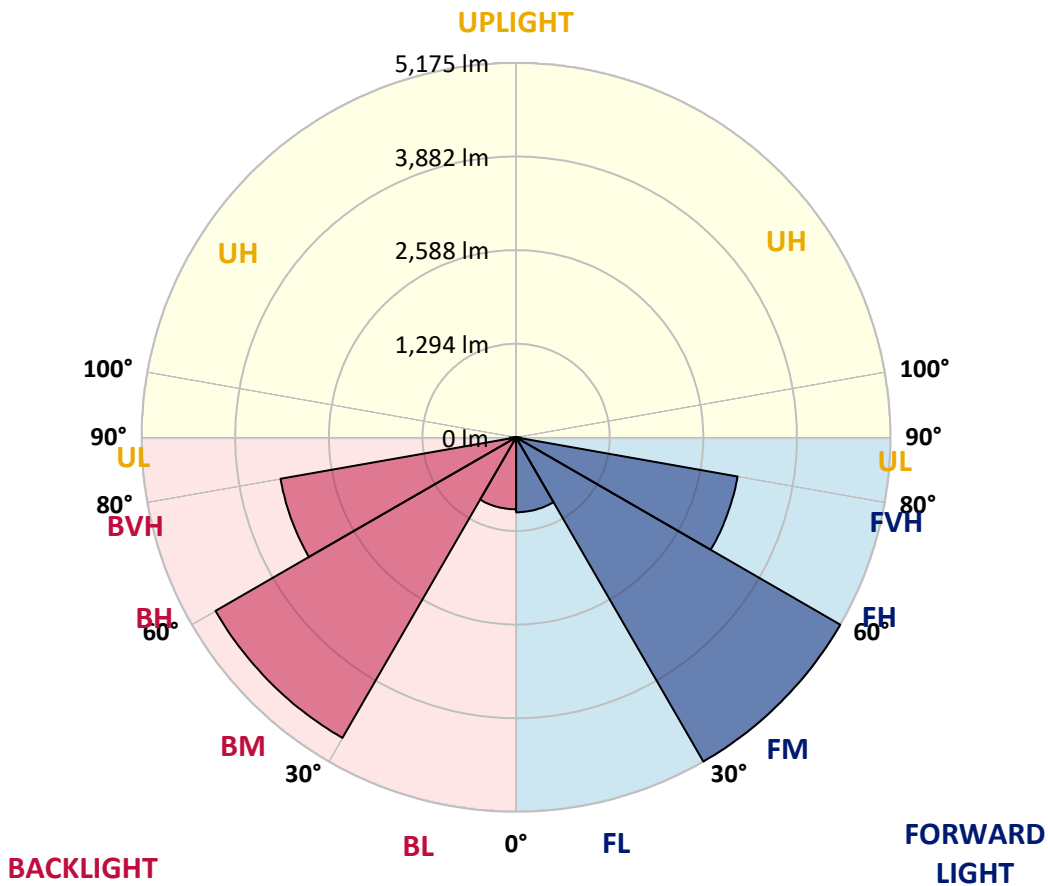
CATALOG NUMBER: GWS-SA4D-722-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.4	5.6			
FM (30°-60°)	5175.4	27.9			
FH (60°-80°)	3109.0	16.7			G2/5000
FVH (80°-90°)	67.3	0.4			G1/100
BL (0°-30°)	995.1	5.4	B2/1000		
BM (30°-60°)	4798.4	25.8	B3/5000		
BH (60°-80°)	3306.2	17.8	B4/5000		G4/5000
BVH (80°-90°)	82.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P637533
 CATALOG NUMBER: GWS-SA4D-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2
2.5°	1841.5	1844.0	1847.9	1855.7	1863.4	1875.1	1886.7	1885.4	1890.6	1894.5	1898.3
5°	1831.1	1833.7	1840.2	1850.5	1862.1	1881.5	1906.1	1916.5	1924.2	1938.4	1951.4
7.5°	1853.1	1858.3	1867.3	1881.5	1899.6	1924.2	1957.8	1975.9	1987.6	2013.4	2035.4
10°	1882.8	1889.3	1907.4	1934.6	1961.7	1999.2	2041.9	2069.0	2076.8	2110.4	2151.8
12.5°	1911.3	1919.0	1948.8	1997.9	2047.1	2097.5	2147.9	2181.5	2184.1	2229.4	2276.0
15°	1956.5	1963.0	2003.1	2066.5	2141.5	2211.3	2273.4	2296.6	2307.0	2339.3	2397.5
17.5°	2056.1	2063.9	2115.6	2184.1	2263.0	2336.7	2398.8	2418.2	2418.2	2445.4	2493.2
20°	2163.4	2171.2	2239.7	2327.7	2423.4	2498.4	2546.2	2528.1	2521.6	2529.4	2563.0
22.5°	2283.7	2297.9	2363.9	2466.0	2583.7	2675.5	2700.1	2645.8	2627.7	2609.6	2617.3
25°	2437.6	2454.4	2519.1	2627.7	2742.8	2839.8	2854.0	2769.9	2759.6	2696.2	2672.9
27.5°	2614.8	2627.7	2707.9	2815.2	2922.5	3004.0	3019.5	2916.1	2881.1	2793.2	2738.9
30°	2843.6	2855.3	2925.1	3031.2	3124.3	3181.2	3200.6	3058.3	3031.2	2896.7	2812.6
32.5°	3093.2	3098.4	3169.5	3271.7	3354.4	3408.8	3381.6	3216.1	3176.0	3024.7	2909.6
35°	3379.0	3379.0	3470.8	3553.6	3619.5	3635.1	3583.3	3394.5	3348.0	3183.7	3040.2
37.5°	3659.6	3667.4	3752.7	3851.0	3909.2	3906.6	3812.2	3605.3	3552.3	3373.8	3214.8
40°	3963.5	3980.3	4065.7	4175.6	4231.2	4223.4	4078.6	3848.4	3794.1	3583.3	3428.1
42.5°	4242.8	4270.0	4369.6	4482.1	4542.8	4537.7	4386.4	4127.7	4074.7	3836.8	3681.6
45°	4465.3	4493.7	4617.9	4774.3	4871.3	4862.3	4709.7	4417.4	4352.8	4103.2	3932.5
47.5°	4660.5	4690.3	4828.6	4994.2	5148.0	5163.6	5023.9	4709.7	4641.1	4389.0	4196.3
50°	4810.5	4824.8	4979.9	5161.0	5339.4	5426.1	5304.5	5003.2	4920.4	4670.9	4453.6
52.5°	4798.9	4818.3	5009.7	5255.4	5494.6	5636.9	5552.8	5279.9	5199.8	4928.2	4716.1
55°	4562.2	4581.6	4809.2	5167.4	5581.3	5790.7	5781.7	5543.7	5485.6	5190.7	4989.0
57.5°	4217.0	4259.6	4485.9	4872.6	5467.5	5913.6	5949.8	5784.3	5723.5	5448.1	5259.3
60°	3598.8	3655.7	3917.0	4418.7	5102.8	5872.2	6129.5	5987.3	5949.8	5687.3	5503.7
62.5°	2614.8	2656.1	3004.0	3662.2	4562.2	5577.4	6280.8	6196.8	6168.3	5902.0	5724.8
65°	1566.0	1660.4	1939.7	2590.2	3680.3	5021.3	6198.1	6470.9	6441.2	6123.1	5913.6
67.5°	792.7	835.4	945.3	1404.4	2475.1	4154.9	5783.0	6641.6	6677.8	6311.9	5980.8
70°	491.4	503.0	534.1	693.1	1236.3	2729.8	4729.1	6196.8	6374.0	6282.1	5806.3
72.5°	394.4	397.0	402.2	431.9	593.6	1276.3	2989.8	4853.2	5172.6	5867.0	5556.7
75°	327.2	328.5	329.8	338.8	369.8	521.1	1454.8	3335.0	3708.8	4986.4	5151.9
77.5°	262.5	256.0	261.2	265.1	272.9	291.0	501.7	1779.4	2158.3	3273.0	3984.2
80°	170.7	168.1	178.5	182.3	190.1	201.7	267.7	603.9	733.2	1191.0	1267.3
82.5°	91.8	86.6	108.6	104.7	108.6	117.7	157.8	221.1	248.3	359.5	303.9
85°	28.4	28.4	29.7	34.9	42.7	41.4	68.5	108.6	120.3	153.9	113.8
87.5°	5.2	5.2	5.2	5.2	5.2	6.5	14.2	22.0	29.7	53.0	40.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637533
 CATALOG NUMBER: GWS-SA4D-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2	1880.2
2.5°	1906.1	1894.5	1900.9	1904.8	1903.5	1900.9	1888.0	1885.4	1879.0	1868.6	1866.0
5°	1963.0	1950.1	1951.4	1947.5	1934.6	1917.7	1889.3	1875.1	1863.4	1850.5	1849.2
7.5°	2052.2	2038.0	2034.1	2016.0	1979.8	1941.0	1895.8	1869.9	1850.5	1833.7	1831.1
10°	2166.0	2151.8	2138.9	2096.2	2036.7	1985.0	1925.5	1888.0	1859.6	1838.9	1835.0
12.5°	2292.8	2281.1	2248.8	2186.7	2115.6	2054.8	1994.0	1947.5	1906.1	1875.1	1871.2
15°	2433.7	2407.9	2358.7	2278.5	2211.3	2162.2	2088.4	2025.1	1959.1	1917.7	1908.7
17.5°	2532.0	2510.0	2451.8	2374.2	2321.2	2278.5	2191.9	2101.4	2012.1	1951.4	1938.4
20°	2601.8	2578.5	2512.6	2455.7	2438.9	2402.7	2301.8	2197.1	2093.6	2018.6	2001.8
22.5°	2652.3	2627.7	2560.4	2532.0	2555.3	2548.8	2450.5	2331.6	2208.7	2119.5	2098.8
25°	2700.1	2676.8	2617.3	2627.7	2689.8	2709.2	2603.1	2464.8	2325.1	2220.3	2195.8
27.5°	2745.4	2715.6	2688.5	2745.4	2833.3	2869.5	2757.0	2600.5	2449.2	2341.9	2322.5
30°	2815.2	2780.3	2776.4	2859.2	2998.8	3029.9	2905.7	2749.2	2599.2	2490.6	2466.0
32.5°	2903.1	2870.8	2873.4	2997.5	3159.2	3185.0	3079.0	2932.9	2782.9	2674.2	2640.6
35°	3022.1	2982.0	3004.0	3156.6	3319.5	3367.4	3282.0	3160.5	3014.3	2903.1	2865.6
37.5°	3186.3	3128.1	3173.4	3333.7	3498.0	3569.1	3503.2	3412.6	3267.8	3155.3	3120.4
40°	3395.8	3348.0	3366.1	3543.2	3712.6	3798.0	3756.6	3667.4	3523.8	3406.2	3366.1
42.5°	3644.1	3596.3	3589.8	3778.6	3948.0	4077.3	4037.2	3955.8	3807.0	3672.6	3633.8
45°	3887.2	3843.3	3852.3	4045.0	4235.1	4376.0	4335.9	4240.3	4078.6	3923.4	3892.4
47.5°	4140.7	4104.5	4112.2	4316.5	4526.0	4667.0	4616.6	4500.2	4311.4	4145.9	4108.3
50°	4400.6	4359.2	4370.9	4585.5	4811.8	4945.0	4867.4	4695.4	4487.2	4325.6	4293.3
52.5°	4659.2	4610.1	4639.8	4842.9	5076.9	5183.0	5039.4	4831.2	4629.5	4469.1	4432.9
55°	4956.7	4904.9	4872.6	5089.9	5321.3	5365.3	5168.7	4925.6	4686.4	4504.1	4482.1
57.5°	5228.2	5184.3	5123.5	5340.7	5511.4	5479.1	5268.3	4899.8	4548.0	4314.0	4282.9
60°	5471.3	5433.8	5380.8	5565.7	5643.3	5570.9	5188.1	4593.3	4206.6	3962.2	3948.0
62.5°	5695.0	5655.0	5605.8	5763.6	5753.2	5585.1	4823.5	4122.6	3605.3	3342.8	3319.5
65°	5872.2	5836.0	5821.8	5945.9	5929.1	5307.1	4255.8	3351.9	2634.2	2338.0	2329.0
67.5°	5922.6	5908.4	5984.7	6195.5	5933.0	4748.5	3337.6	2222.9	1414.7	1134.1	1117.3
70°	5733.8	5732.5	5951.1	6252.4	5395.0	3627.3	1969.5	1002.2	711.2	631.1	620.7
72.5°	5488.1	5484.3	5657.5	5393.7	4001.0	1985.0	828.9	536.7	444.8	422.9	422.9
75°	5084.7	5074.3	5204.9	4103.2	2250.1	747.4	439.7	368.5	349.2	345.3	345.3
77.5°	4144.6	4057.9	3852.3	2535.9	784.9	367.3	291.0	289.7	278.0	276.7	276.7
80°	1363.0	1363.0	1584.1	967.3	346.6	226.3	205.6	216.0	204.3	196.6	195.3
82.5°	222.4	306.5	435.8	276.7	187.5	141.0	126.7	134.5	141.0	112.5	112.5
85°	87.9	115.1	168.1	129.3	86.6	56.9	60.8	67.2	59.5	51.7	50.4
87.5°	33.6	41.4	59.5	31.0	18.1	10.3	6.5	6.5	5.2	5.2	5.2
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)