

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: P633572

Luminaire Tested: GWS-SA2F-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10533.9 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 124.5
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

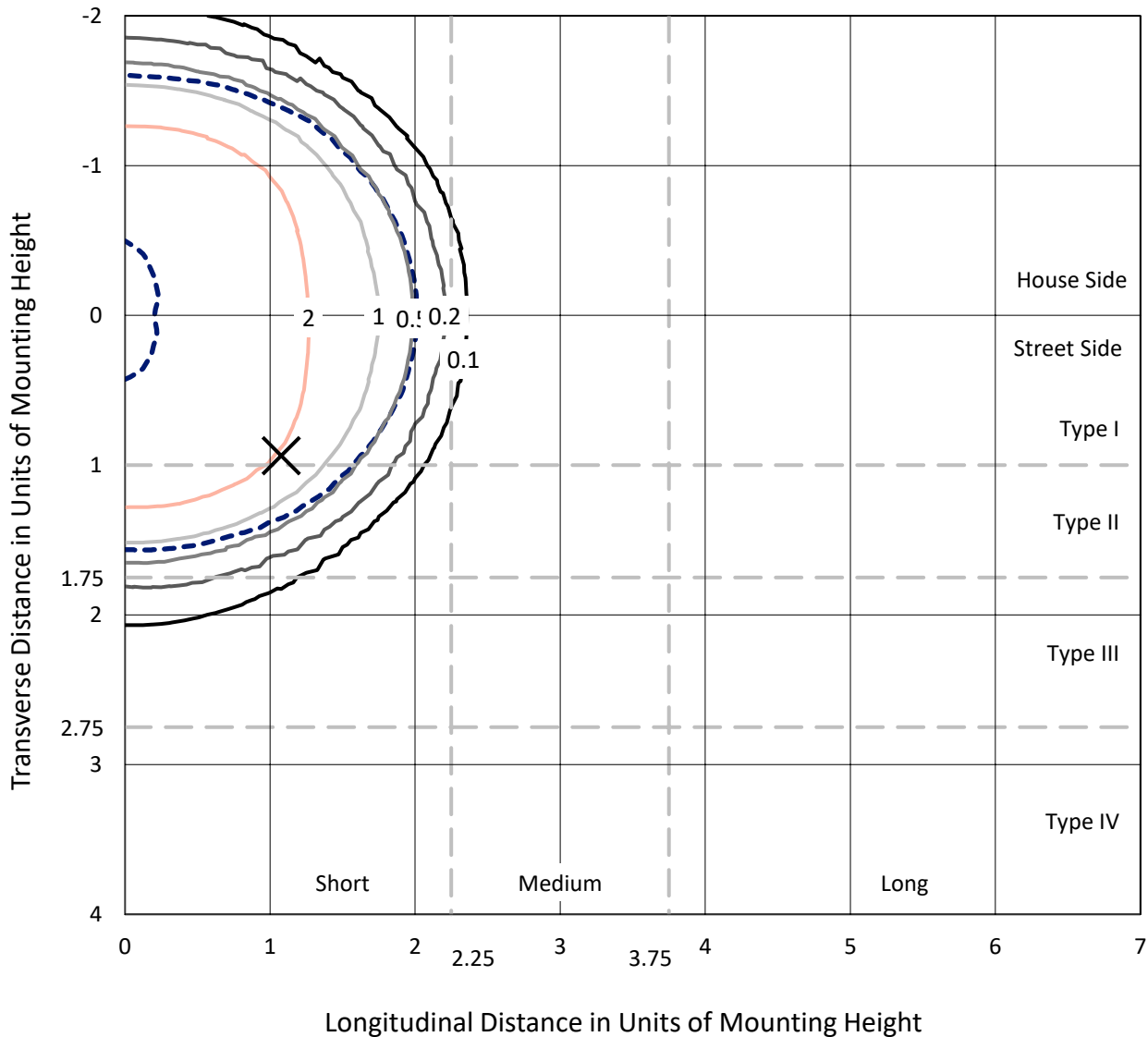


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Iso-Footcandle Lines of Horizontal Illumination

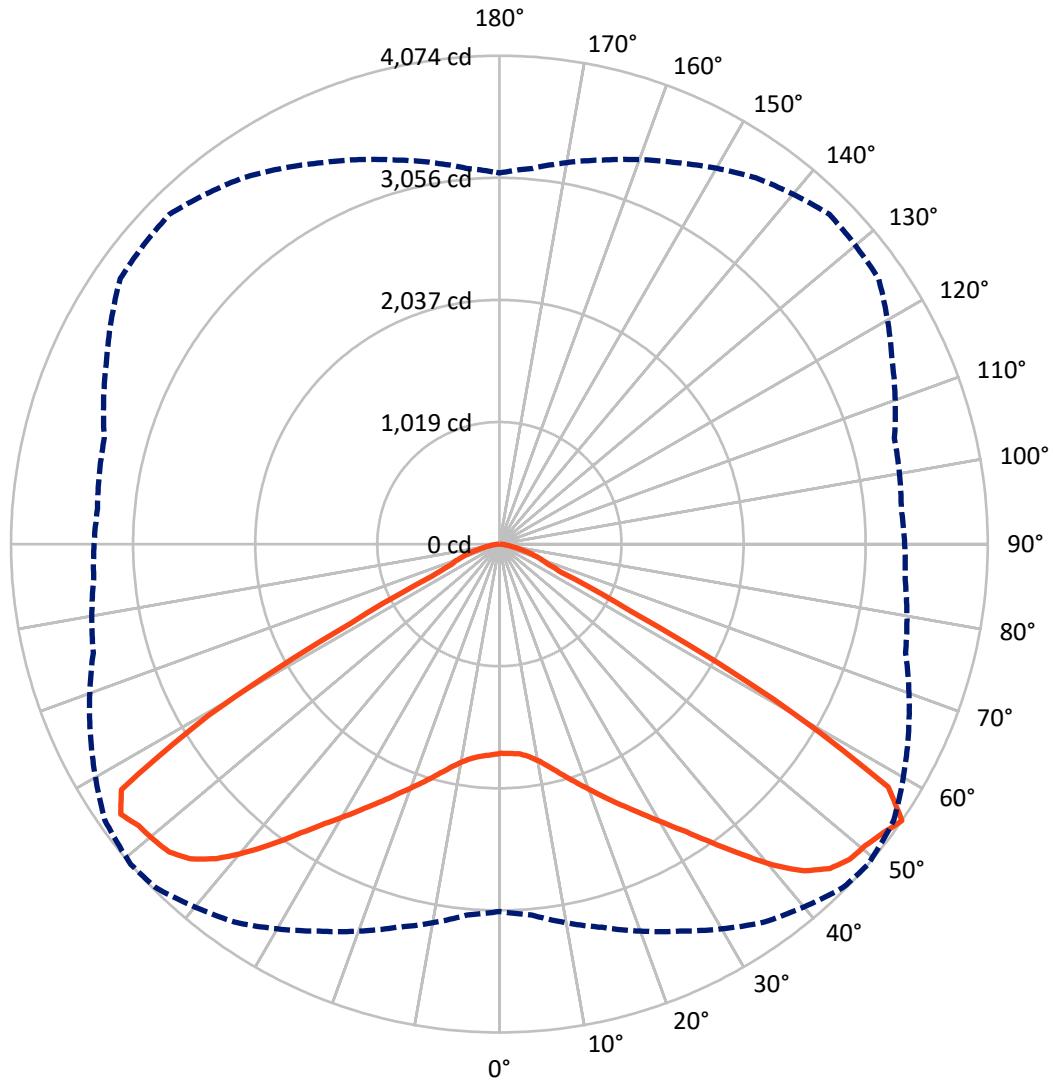
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5215.3	0.0	5215.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5318.6	0.0	5318.6
	% Fixture	50.5	0.0	50.5
Total	Lumens	10533.9	0.0	10533.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.6
10°-20°	561.5	5.3
20°-30°	1069.5	10.2
30°-40°	1812.9	17.2
40°-50°	2728.4	25.9
50°-60°	2986.5	28.4
60°-70°	944.3	9.0
70°-80°	226.6	2.2
80°-90°	34.0	0.3
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°	10533.9	100.0
0°-180°	10533.9	100.0

Coefficient of Utilization



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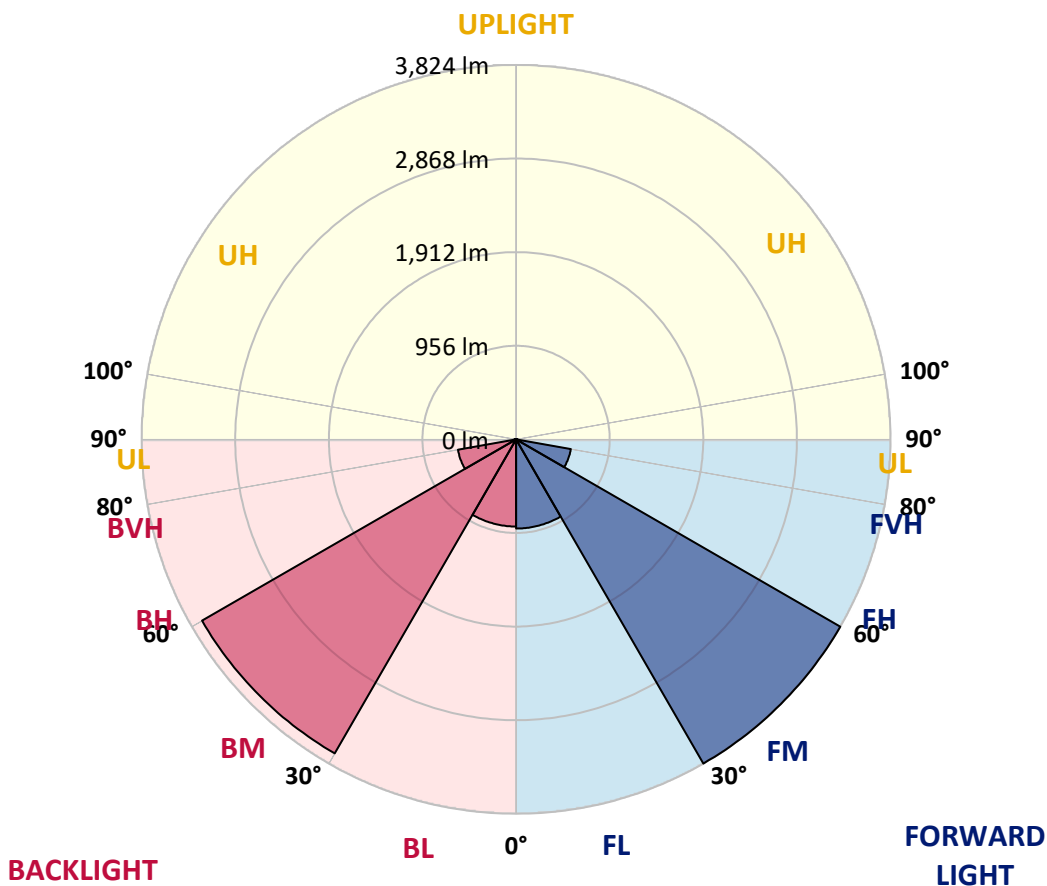
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.7	8.6			
FM (30°-60°)	3824.1	36.3			
FH (60°-80°)	568.0	5.4			G0/660
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	890.4	8.5	B2/1000		
BM (30°-60°)	3703.7	35.2	B3/5000		
BH (60°-80°)	602.9	5.7	B2/1000		G0/660
BVH (80°-90°)	18.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1719.3	1721.0	1724.4	1730.4	1736.4	1745.0	1748.4	1752.7	1751.9	1757.0	1757.0
5°	1710.7	1713.3	1718.4	1727.0	1737.3	1753.6	1757.9	1768.1	1778.4	1791.3	1795.5
7.5°	1721.0	1724.4	1730.4	1744.1	1759.6	1781.0	1789.6	1806.7	1826.4	1849.5	1858.9
10°	1740.7	1745.0	1755.3	1777.6	1802.4	1835.0	1842.7	1864.1	1895.8	1927.5	1946.3
12.5°	1763.0	1769.8	1788.7	1823.8	1860.7	1903.5	1915.5	1942.0	1976.3	2017.4	2043.1
15°	1788.7	1794.7	1823.8	1873.5	1930.9	1987.4	2001.1	2026.8	2065.4	2105.7	2141.6
17.5°	1842.7	1852.9	1887.2	1944.6	2011.4	2078.2	2093.7	2122.8	2153.6	2185.3	2219.6
20°	1916.3	1924.9	1968.6	2039.7	2118.5	2179.3	2194.7	2220.4	2235.0	2251.3	2280.4
22.5°	1990.0	2002.0	2051.7	2135.6	2228.2	2294.1	2306.1	2330.1	2319.8	2314.7	2333.5
25°	2081.7	2097.9	2146.8	2238.4	2332.7	2414.1	2423.5	2444.0	2426.9	2400.3	2399.5
27.5°	2195.6	2210.2	2260.7	2354.9	2448.3	2533.1	2551.1	2578.5	2540.8	2508.3	2485.2
30°	2331.0	2340.4	2396.1	2496.3	2592.2	2672.8	2695.9	2723.3	2695.0	2641.1	2617.9
32.5°	2488.6	2501.4	2565.7	2671.0	2756.7	2837.2	2860.4	2894.6	2863.8	2803.0	2773.8
35°	2677.9	2690.8	2758.4	2873.2	2960.6	3043.7	3060.0	3088.2	3049.7	2979.4	2956.3
37.5°	2883.5	2899.8	2985.4	3094.2	3185.9	3282.7	3283.6	3292.1	3237.3	3149.9	3124.2
40°	3114.8	3136.2	3221.9	3335.0	3445.5	3524.3	3523.4	3499.4	3406.9	3271.6	3232.2
42.5°	3343.5	3360.7	3447.2	3563.7	3674.2	3748.7	3726.4	3668.2	3534.6	3350.4	3298.1
45°	3508.9	3521.7	3612.5	3743.6	3855.8	3902.1	3861.8	3791.6	3610.8	3400.1	3323.0
47.5°	3586.8	3603.9	3695.6	3825.8	3952.6	3979.2	3931.2	3865.2	3655.3	3446.3	3342.7
50°	3544.8	3567.1	3670.8	3791.6	3934.6	3989.4	3955.2	3889.2	3702.5	3491.7	3377.8
52.5°	3436.0	3457.5	3588.5	3735.0	3896.9	4005.7	4004.9	3950.9	3756.4	3504.6	3379.5
55°	3064.3	3106.2	3310.1	3562.8	3850.7	4053.7	4074.2	4016.9	3765.0	3508.0	3397.5
57.5°	1994.3	2068.0	2261.6	2590.5	3167.9	3687.0	3825.8	3839.5	3703.3	3493.4	3400.9
60°	832.7	891.8	1045.1	1263.6	1740.7	2358.4	2627.4	2897.2	3222.7	3341.0	3369.2
62.5°	517.4	522.6	538.0	587.7	747.0	1048.5	1221.6	1474.3	1958.3	2370.4	2560.5
65°	466.9	469.4	472.9	469.4	477.2	514.0	560.3	648.5	845.5	1050.3	1293.5
67.5°	411.2	414.6	417.2	414.6	417.2	418.9	424.0	431.8	467.7	496.9	519.1
70°	332.4	337.5	341.8	340.1	350.4	350.4	355.5	361.5	379.5	400.9	416.3
72.5°	253.6	249.3	254.4	256.1	265.6	270.7	278.4	285.3	305.8	318.7	338.4
75°	164.5	160.2	167.9	172.2	185.0	191.9	198.7	205.6	220.2	228.7	247.6
77.5°	89.1	88.2	95.9	101.9	115.6	124.2	129.4	134.5	146.5	149.1	161.1
80°	51.4	51.4	56.5	60.8	69.4	78.8	84.0	88.2	96.8	99.4	104.5
82.5°	28.3	28.3	30.8	33.4	40.3	45.4	49.7	53.1	60.8	63.4	66.0
85°	13.7	12.8	14.6	16.3	18.8	21.4	24.0	25.7	31.7	33.4	36.8
87.5°	1.7	1.7	1.7	2.6	3.4	5.1	6.0	6.0	9.4	11.1	12.8
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°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1762.1	1751.0	1757.9	1760.4	1760.4	1757.9	1746.7	1743.3	1738.2	1730.4	1730.4
5°	1801.5	1793.0	1794.7	1790.4	1780.1	1767.3	1746.7	1736.4	1727.9	1718.4	1717.6
7.5°	1869.2	1858.1	1856.4	1840.1	1812.7	1785.3	1754.4	1735.6	1722.7	1710.7	1709.9
10°	1957.5	1947.2	1934.3	1901.8	1861.5	1821.2	1779.3	1753.6	1734.7	1717.6	1716.7
12.5°	2056.0	2044.0	2020.0	1972.0	1921.5	1882.1	1834.1	1794.7	1766.4	1743.3	1739.0
15°	2163.1	2145.9	2104.8	2048.3	1998.6	1956.6	1905.2	1848.7	1805.8	1769.0	1764.7
17.5°	2245.3	2223.0	2178.5	2125.4	2084.2	2042.3	1975.4	1904.3	1842.7	1796.4	1789.6
20°	2301.8	2283.8	2233.3	2193.9	2169.9	2133.1	2055.1	1974.6	1905.2	1846.9	1843.5
22.5°	2354.1	2332.7	2283.0	2259.9	2259.9	2235.0	2160.5	2065.4	1984.0	1916.3	1907.8
25°	2413.2	2390.1	2352.4	2349.8	2361.8	2350.7	2260.7	2158.8	2063.7	1987.4	1973.7
27.5°	2495.4	2469.7	2447.5	2462.9	2480.0	2468.0	2367.8	2249.6	2149.3	2072.2	2060.3
30°	2626.5	2594.8	2574.2	2593.1	2626.5	2591.4	2482.6	2357.5	2256.4	2171.6	2165.6
32.5°	2779.0	2743.0	2721.6	2751.6	2781.6	2726.7	2618.8	2498.9	2392.6	2303.5	2293.3
35°	2962.3	2916.9	2885.2	2925.5	2956.3	2902.3	2795.3	2681.3	2563.1	2470.6	2456.9
37.5°	3125.1	3070.2	3048.8	3105.4	3146.5	3111.4	2994.9	2887.8	2758.4	2657.3	2651.3
40°	3243.3	3189.3	3173.9	3267.3	3339.2	3330.7	3226.2	3103.7	2982.0	2865.5	2854.4
42.5°	3294.7	3257.0	3260.4	3386.4	3497.7	3552.5	3459.2	3328.1	3210.7	3090.0	3082.2
45°	3305.8	3282.7	3310.1	3467.7	3614.2	3726.4	3646.8	3537.1	3404.3	3287.8	3284.4
47.5°	3317.8	3305.0	3346.9	3514.0	3687.9	3818.1	3773.6	3660.5	3526.0	3412.1	3403.5
50°	3346.1	3341.0	3388.1	3546.5	3723.0	3843.0	3792.4	3680.2	3542.3	3430.0	3409.5
52.5°	3354.7	3346.1	3413.8	3597.1	3781.3	3842.1	3733.3	3586.8	3448.0	3323.0	3301.5
55°	3381.2	3365.8	3412.1	3615.9	3861.8	3891.8	3729.9	3510.6	3317.0	3146.5	3095.9
57.5°	3388.1	3370.9	3400.9	3585.1	3774.4	3747.9	3278.4	2833.0	2468.0	2278.7	2300.1
60°	3351.2	3356.4	3305.0	3284.4	3027.4	2672.8	2007.1	1604.5	1260.1	1114.5	1146.2
62.5°	2551.1	2572.5	2396.9	2084.2	1602.8	1270.4	840.4	652.8	552.5	526.8	531.1
65°	1287.6	1316.7	1134.2	938.0	697.3	563.7	487.4	472.0	466.9	460.9	460.9
67.5°	509.7	518.3	511.4	478.9	445.5	433.5	430.0	428.3	422.3	418.9	419.8
70°	409.5	416.3	406.1	385.5	371.8	370.9	369.2	365.8	361.5	361.5	364.1
72.5°	334.1	340.9	326.4	313.5	303.3	295.5	291.3	288.7	282.7	282.7	285.3
75°	245.9	250.1	238.1	236.4	225.3	217.6	210.7	207.3	199.6	196.2	198.7
77.5°	163.6	162.8	156.8	156.8	152.5	143.1	135.4	127.6	117.4	110.5	112.2
80°	106.2	106.2	103.7	103.7	99.4	91.7	82.2	74.5	68.5	63.4	63.4
82.5°	67.7	66.8	66.0	65.1	63.4	55.7	48.8	43.7	39.4	36.0	36.8
85°	37.7	37.7	36.0	36.0	32.6	28.3	24.8	21.4	18.8	18.0	18.0
87.5°	12.8	12.8	12.0	12.0	10.3	7.7	6.0	5.1	4.3	3.4	4.3
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)