

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: P634012

Luminaire Tested: GWS-SA2F-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634012
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11360.4 lumens
Efficiency: N/A
Efficacy: 91.2 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

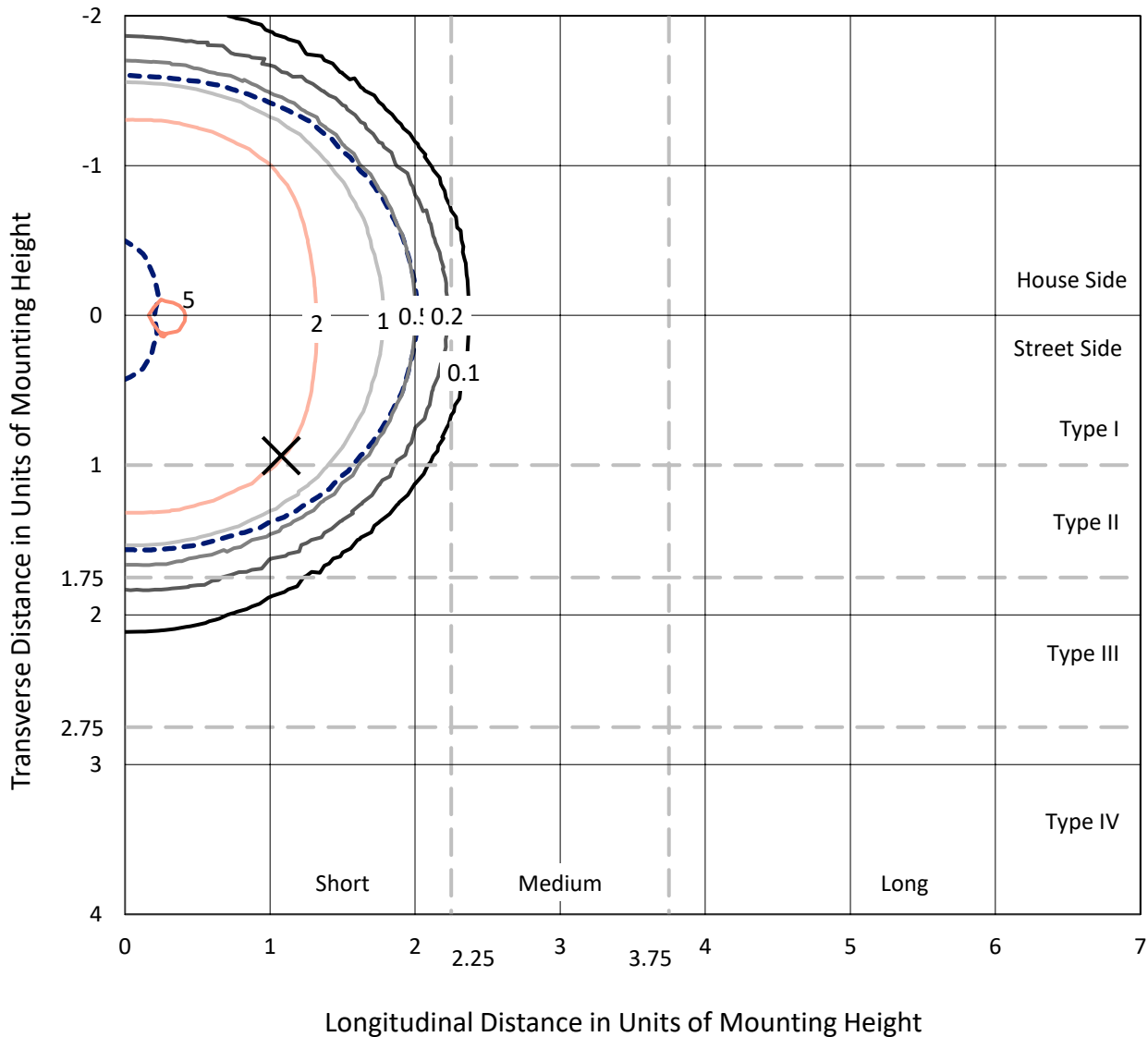


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Iso-Footcandle Lines of Horizontal Illumination

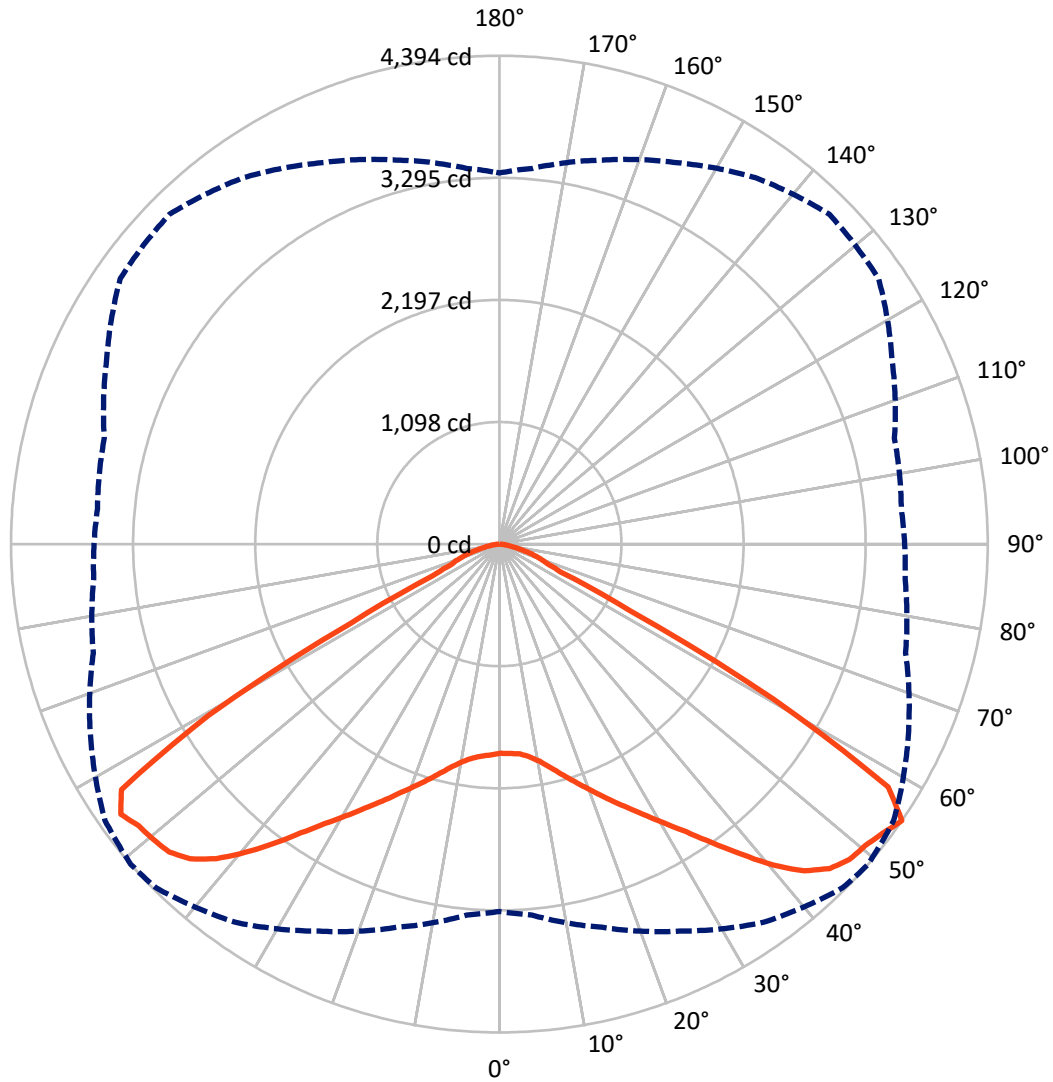
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	5624.5	0.0	5624.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5735.9	0.0	5735.9
	% Fixture	50.5	0.0	50.5
Total	Lumens	11360.4	0.0	11360.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.6
10°-20°	605.5	5.3
20°-30°	1153.4	10.2
30°-40°	1955.2	17.2
40°-50°	2942.4	25.9
50°-60°	3220.8	28.4
60°-70°	1018.4	9.0
70°-80°	244.4	2.2
80°-90°	36.7	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°	11360.4	100.0
0°-180°	11360.4	100.0

Coefficient of Utilization



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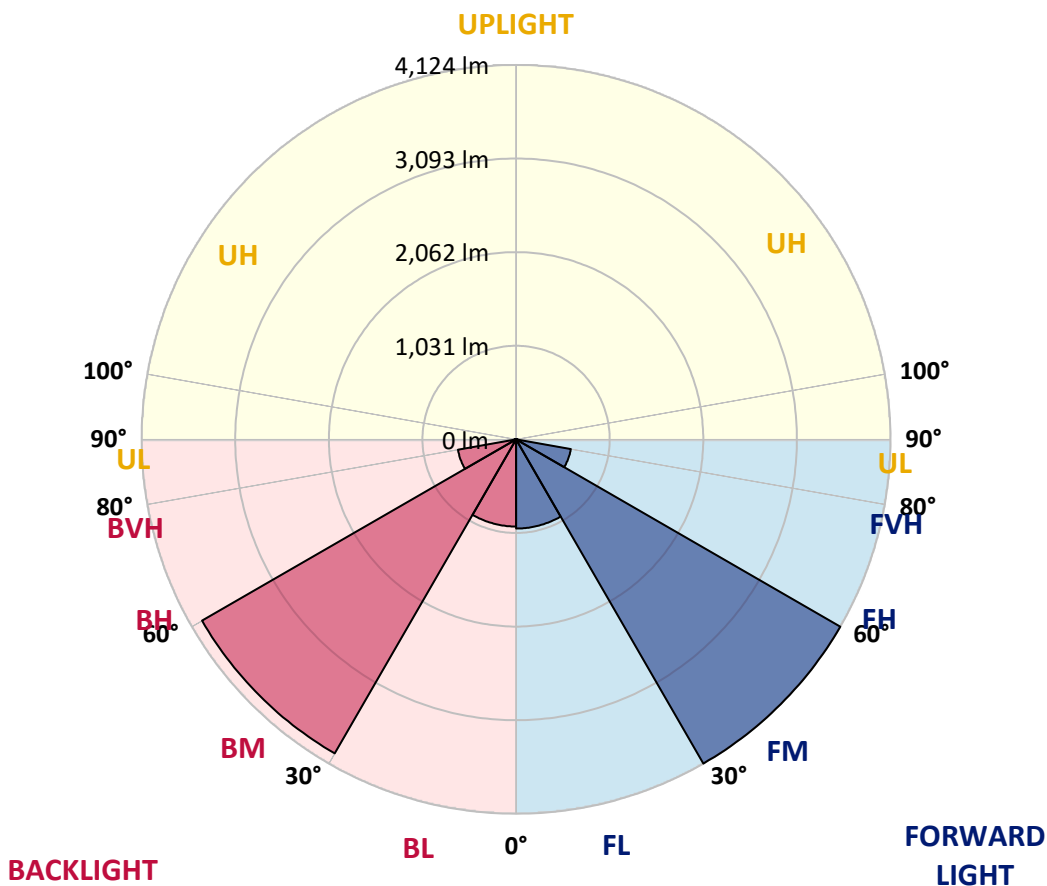
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.2	8.6			
FM (30°-60°)	4124.1	36.3			
FH (60°-80°)	612.6	5.4			G0/660
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	960.3	8.5	B2/1000		
BM (30°-60°)	3994.3	35.2	B3/5000		
BH (60°-80°)	650.3	5.7	B2/1000		G0/660
BVH (80°-90°)	19.7	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°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1854.2	1856.1	1859.7	1866.2	1872.7	1881.9	1885.6	1890.2	1889.3	1894.9	1894.9
5°	1845.0	1847.7	1853.3	1862.5	1873.6	1891.2	1895.8	1906.9	1918.0	1931.8	1936.4
7.5°	1856.1	1859.7	1866.2	1881.0	1897.6	1920.7	1930.0	1948.4	1969.7	1994.6	2004.8
10°	1877.3	1881.9	1893.0	1917.0	1943.8	1978.9	1987.2	2010.3	2044.5	2078.7	2099.0
12.5°	1901.3	1908.7	1929.0	1966.9	2006.6	2052.8	2065.8	2094.4	2131.4	2175.7	2203.4
15°	1929.0	1935.5	1966.9	2020.5	2082.4	2143.4	2158.2	2185.9	2227.4	2270.9	2309.7
17.5°	1987.2	1998.3	2035.3	2097.2	2169.2	2241.3	2257.9	2289.3	2322.6	2356.8	2393.7
20°	2066.7	2075.9	2123.0	2199.7	2284.7	2350.3	2366.9	2394.7	2410.4	2427.9	2459.3
22.5°	2146.1	2159.1	2212.7	2303.2	2403.0	2474.1	2487.1	2512.9	2501.8	2496.3	2516.6
25°	2245.0	2262.6	2315.2	2414.1	2515.7	2603.5	2613.6	2635.8	2617.3	2588.7	2587.8
27.5°	2367.9	2383.6	2438.1	2539.7	2640.4	2731.9	2751.3	2780.8	2740.2	2705.1	2680.1
30°	2513.8	2524.0	2584.1	2692.2	2795.6	2882.5	2907.4	2937.0	2906.5	2848.3	2823.3
32.5°	2683.8	2697.7	2767.0	2880.6	2973.0	3059.9	3084.8	3121.8	3088.5	3022.9	2991.5
35°	2888.0	2901.9	2974.9	3098.7	3192.9	3282.5	3300.1	3330.5	3289.0	3213.2	3188.3
37.5°	3109.7	3127.3	3219.7	3337.0	3435.9	3540.3	3541.2	3550.4	3491.3	3397.1	3369.3
40°	3359.2	3382.3	3474.7	3596.6	3715.8	3800.8	3799.9	3774.0	3674.2	3528.3	3485.8
42.5°	3605.9	3624.3	3717.6	3843.3	3962.5	4042.8	4018.8	3956.0	3811.9	3613.2	3556.9
45°	3784.2	3798.0	3896.0	4037.3	4158.3	4208.2	4164.8	4089.0	3894.1	3666.8	3583.7
47.5°	3868.2	3886.7	3985.6	4126.0	4262.7	4291.4	4239.6	4168.5	3942.1	3716.7	3604.9
50°	3823.0	3847.0	3958.8	4089.0	4243.3	4302.5	4265.5	4194.4	3993.0	3765.7	3642.8
52.5°	3705.6	3728.7	3870.1	4028.1	4202.7	4320.0	4319.1	4260.9	4051.2	3779.5	3644.7
55°	3304.7	3349.9	3569.8	3842.4	4152.8	4371.7	4393.9	4332.0	4060.4	3783.2	3664.1
57.5°	2150.8	2230.2	2439.0	2793.8	3416.5	3976.3	4126.0	4140.8	3993.9	3767.5	3667.8
60°	898.0	961.7	1127.1	1362.7	1877.3	2543.4	2833.5	3124.5	3475.6	3603.1	3633.6
62.5°	558.0	563.6	580.2	633.8	805.6	1130.8	1317.4	1590.0	2112.0	2556.3	2761.4
65°	503.5	506.3	510.0	506.3	514.6	554.3	604.2	699.4	911.9	1132.7	1395.0
67.5°	443.5	447.2	449.9	447.2	449.9	451.8	457.3	465.6	504.4	535.8	559.9
70°	358.5	364.0	368.6	366.8	377.9	377.9	383.4	389.9	409.3	432.4	449.0
72.5°	273.5	268.8	274.4	276.2	286.4	291.9	300.3	307.6	329.8	343.7	364.9
75°	177.4	172.8	181.1	185.7	199.6	206.9	214.3	221.7	237.4	246.7	267.0
77.5°	96.1	95.2	103.5	109.9	124.7	134.0	139.5	145.0	158.0	160.8	173.7
80°	55.4	55.4	61.0	65.6	74.8	85.0	90.5	95.2	104.4	107.2	112.7
82.5°	30.5	30.5	33.3	36.0	43.4	49.0	53.6	57.3	65.6	68.4	71.1
85°	14.8	13.9	15.7	17.6	20.3	23.1	25.9	27.7	34.2	36.0	39.7
87.5°	1.8	1.8	1.8	2.8	3.7	5.5	6.5	6.5	10.2	12.0	13.9
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°	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1900.4	1888.4	1895.8	1898.5	1898.5	1895.8	1883.8	1880.1	1874.5	1866.2	1866.2
5°	1942.9	1933.7	1935.5	1930.9	1919.8	1905.9	1883.8	1872.7	1863.4	1853.3	1852.4
7.5°	2015.9	2003.9	2002.0	1984.5	1954.9	1925.3	1892.1	1871.8	1857.9	1845.0	1844.0
10°	2111.0	2100.0	2086.1	2051.0	2007.6	1964.1	1918.9	1891.2	1870.8	1852.4	1851.4
12.5°	2217.3	2204.3	2178.5	2126.7	2072.2	2029.7	1978.0	1935.5	1905.0	1880.1	1875.5
15°	2332.8	2314.3	2269.9	2209.0	2155.4	2110.1	2054.7	1993.7	1947.5	1907.8	1903.2
17.5°	2421.5	2397.4	2349.4	2292.1	2247.8	2202.5	2130.4	2053.8	1987.2	1937.4	1930.0
20°	2482.4	2463.0	2408.5	2366.0	2340.2	2300.4	2216.4	2129.5	2054.7	1991.9	1988.2
22.5°	2538.8	2515.7	2462.1	2437.2	2437.2	2410.4	2330.0	2227.4	2139.7	2066.7	2057.5
25°	2602.5	2577.6	2536.9	2534.2	2547.1	2535.1	2438.1	2328.1	2225.6	2143.4	2128.6
27.5°	2691.2	2663.5	2639.5	2656.1	2674.6	2661.7	2553.6	2426.1	2318.0	2234.8	2221.9
30°	2832.6	2798.4	2776.2	2796.5	2832.6	2794.7	2677.4	2542.5	2433.5	2342.0	2335.5
32.5°	2997.0	2958.2	2935.1	2967.5	2999.8	2940.7	2824.3	2694.9	2580.4	2484.3	2473.2
35°	3194.7	3145.8	3111.6	3155.0	3188.3	3130.1	3014.6	2891.7	2764.2	2664.4	2649.7
37.5°	3370.3	3311.1	3288.0	3349.0	3393.4	3355.5	3229.8	3114.4	2974.9	2865.8	2859.4
40°	3497.8	3439.6	3422.9	3523.6	3601.2	3592.0	3479.3	3347.2	3216.0	3090.3	3078.3
42.5°	3553.2	3512.5	3516.2	3652.1	3772.2	3831.3	3730.6	3589.2	3462.7	3332.4	3324.1
45°	3565.2	3540.3	3569.8	3739.8	3897.8	4018.8	3932.9	3814.7	3671.5	3545.8	3542.1
47.5°	3578.1	3564.3	3609.6	3789.7	3977.3	4117.7	4069.6	3947.7	3802.6	3679.8	3670.5
50°	3608.6	3603.1	3653.9	3824.8	4015.1	4144.5	4090.0	3968.9	3820.2	3699.2	3677.0
52.5°	3617.9	3608.6	3681.6	3879.3	4078.0	4143.5	4026.2	3868.2	3718.6	3583.7	3560.6
55°	3646.5	3629.9	3679.8	3899.6	4164.8	4197.1	4022.5	3786.0	3577.2	3393.4	3338.9
57.5°	3653.9	3635.4	3667.8	3866.4	4070.6	4041.9	3535.6	3055.2	2661.7	2457.5	2480.6
60°	3614.2	3619.7	3564.3	3542.1	3264.9	2882.5	2164.6	1730.4	1359.0	1202.0	1236.1
62.5°	2751.3	2774.4	2585.0	2247.8	1728.6	1370.1	906.3	704.0	595.9	568.2	572.8
65°	1388.6	1420.0	1223.2	1011.6	752.0	607.9	525.7	509.1	503.5	497.0	497.0
67.5°	549.7	558.9	551.5	516.4	480.4	467.5	463.8	461.9	455.5	451.8	452.7
70°	441.6	449.0	437.9	415.7	401.0	400.0	398.2	394.5	389.9	389.9	392.6
72.5°	360.3	367.7	352.0	338.1	327.0	318.7	314.1	311.3	304.9	304.9	307.6
75°	265.2	269.8	256.8	255.0	243.0	234.7	227.3	223.6	215.3	211.6	214.3
77.5°	176.5	175.5	169.1	169.1	164.4	154.3	146.0	137.7	126.6	119.2	121.0
80°	114.6	114.6	111.8	111.8	107.2	98.9	88.7	80.4	73.9	68.4	68.4
82.5°	73.0	72.1	71.1	70.2	68.4	60.1	52.7	47.1	42.5	38.8	39.7
85°	40.7	40.7	38.8	38.8	35.1	30.5	26.8	23.1	20.3	19.4	19.4
87.5°	13.9	13.9	12.9	12.9	11.1	8.3	6.5	5.5	4.6	3.7	4.6
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)