

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: P632802

Luminaire Tested: GWS-SA2D-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632802
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10292.9 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

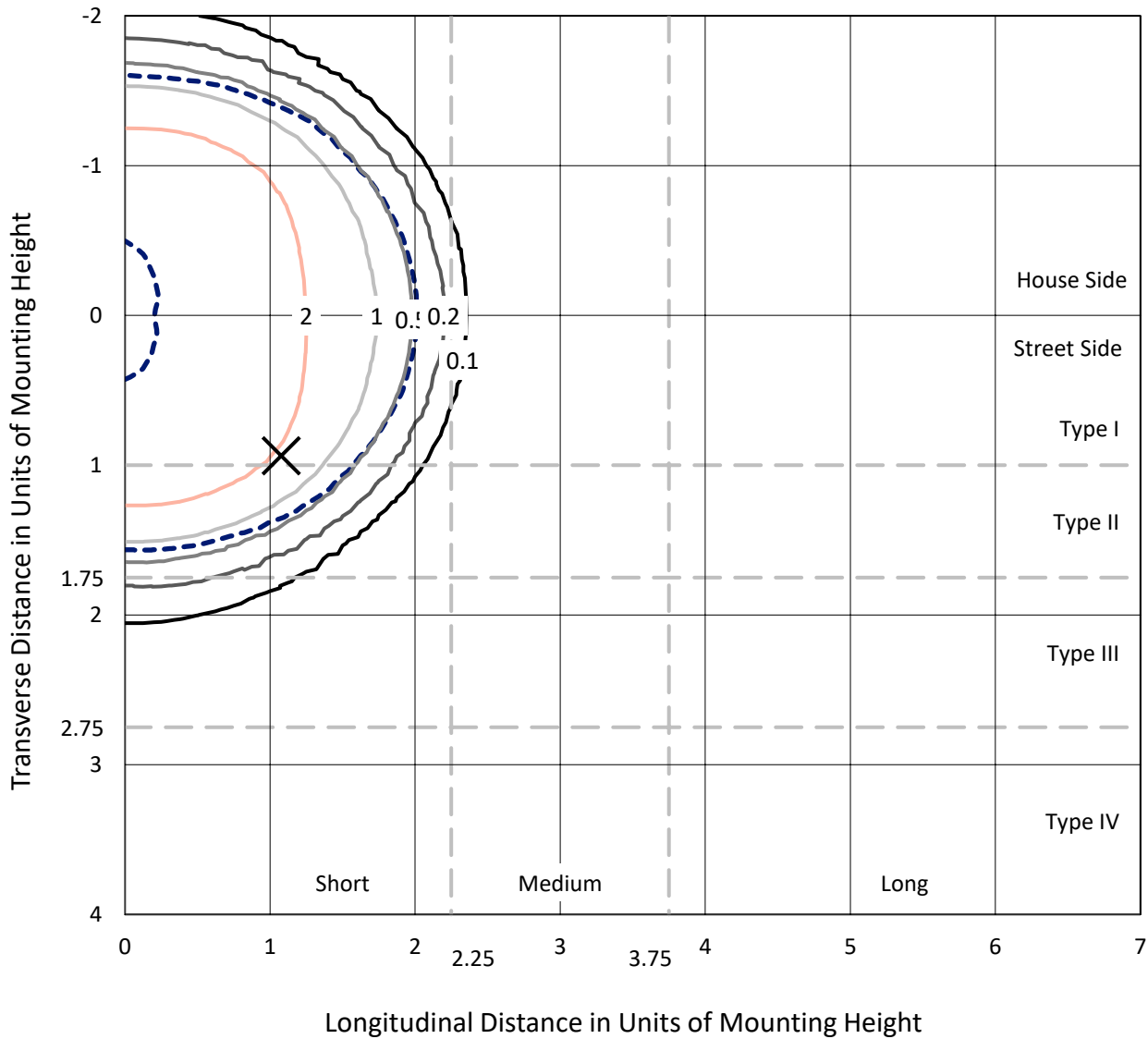
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

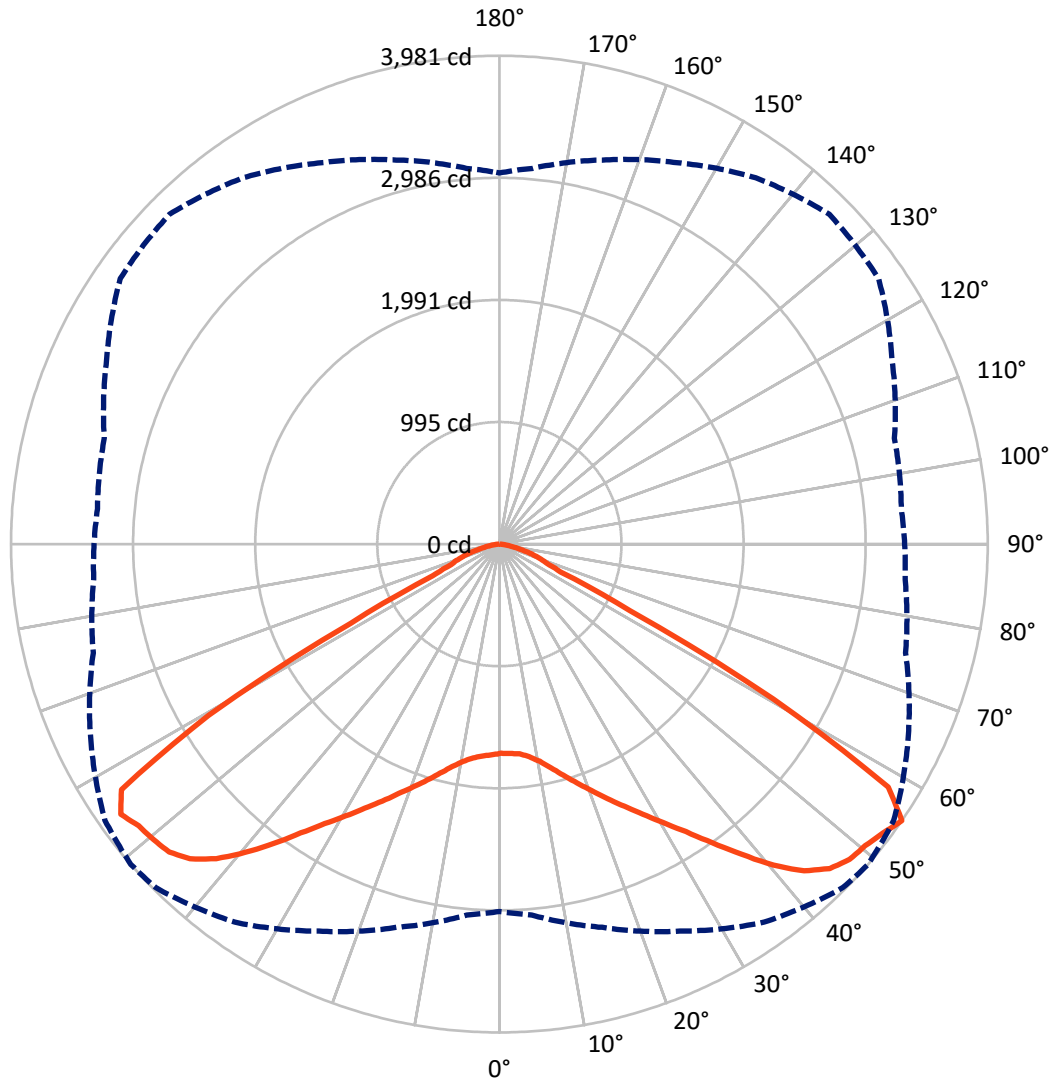
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	5096.0	0.0	5096.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5196.9	0.0	5196.9
	% Fixture	50.5	0.0	50.5
Total	Lumens	10292.9	0.0	10292.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.6
10°-20°	548.6	5.3
20°-30°	1045.0	10.2
30°-40°	1771.5	17.2
40°-50°	2665.9	25.9
50°-60°	2918.1	28.4
60°-70°	922.7	9.0
70°-80°	221.5	2.2
80°-90°	33.2	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°	10292.9	100.0
0°-180°	10292.9	100.0

Coefficient of Utilization



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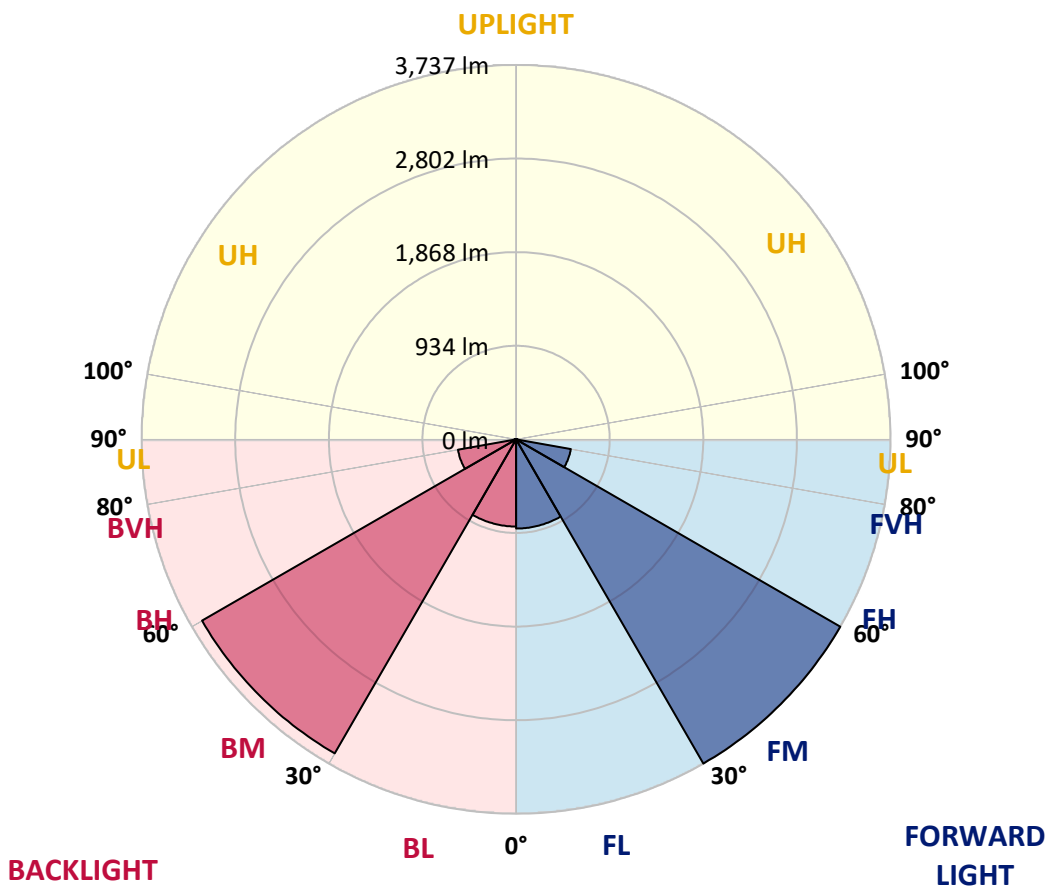
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.9	8.6			
FM (30°-60°)	3736.6	36.3			
FH (60°-80°)	555.0	5.4			G0/660
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	870.0	8.5	B2/1000		
BM (30°-60°)	3618.9	35.2	B3/5000		
BH (60°-80°)	589.2	5.7	B2/1000		G0/660
BVH (80°-90°)	17.8	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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1680.0	1681.6	1685.0	1690.9	1696.7	1705.1	1708.4	1712.6	1711.8	1716.8	1716.8
5°	1671.6	1674.1	1679.1	1687.5	1697.5	1713.5	1717.6	1727.7	1737.7	1750.3	1754.5
7.5°	1681.6	1685.0	1690.9	1704.2	1719.3	1740.2	1748.6	1765.3	1784.6	1807.2	1816.4
10°	1700.9	1705.1	1715.1	1736.9	1761.2	1793.0	1800.5	1821.4	1852.4	1883.4	1901.8
12.5°	1722.7	1729.4	1747.8	1782.1	1818.1	1859.9	1871.7	1897.6	1931.1	1971.3	1996.4
15°	1747.8	1753.6	1782.1	1830.6	1886.7	1942.0	1955.4	1980.5	2018.1	2057.5	2092.6
17.5°	1800.5	1810.6	1844.0	1900.1	1965.4	2030.7	2045.8	2074.2	2104.4	2135.3	2168.8
20°	1872.5	1880.9	1923.6	1993.0	2070.0	2129.5	2144.5	2169.6	2183.9	2199.8	2228.2
22.5°	1944.5	1956.2	2004.7	2086.8	2177.2	2241.6	2253.4	2276.8	2266.7	2261.7	2280.1
25°	2034.0	2049.9	2097.7	2187.2	2279.3	2358.8	2368.0	2388.1	2371.4	2345.4	2344.6
27.5°	2145.4	2159.6	2209.0	2301.1	2392.3	2475.2	2492.8	2519.5	2482.7	2450.9	2428.3
30°	2277.6	2286.8	2341.2	2439.2	2532.9	2611.6	2634.2	2661.0	2633.4	2580.6	2558.0
32.5°	2431.6	2444.2	2507.0	2609.9	2693.6	2772.3	2794.9	2828.4	2798.3	2738.8	2710.4
35°	2616.6	2629.2	2695.3	2807.5	2892.9	2974.1	2990.0	3017.6	2979.9	2911.3	2888.7
37.5°	2817.5	2833.4	2917.1	3023.4	3113.0	3207.6	3208.4	3216.8	3163.2	3077.9	3052.7
40°	3043.5	3064.5	3148.2	3258.7	3366.6	3443.6	3442.8	3419.4	3329.0	3196.7	3158.2
42.5°	3267.0	3283.8	3368.3	3482.1	3590.1	3663.0	3641.2	3584.3	3453.7	3273.7	3222.7
45°	3428.6	3441.1	3529.9	3657.9	3767.6	3812.8	3773.4	3704.8	3528.2	3322.3	3246.9
47.5°	3504.7	3521.5	3611.1	3738.3	3862.2	3888.1	3841.2	3776.8	3571.7	3367.5	3266.2
50°	3463.7	3485.5	3586.8	3704.8	3844.6	3898.2	3864.7	3800.2	3617.8	3411.8	3300.5
52.5°	3357.4	3378.4	3506.4	3649.6	3807.8	3914.1	3913.2	3860.5	3670.5	3424.4	3302.2
55°	2994.1	3035.2	3234.4	3481.3	3762.6	3960.9	3981.0	3925.0	3678.9	3427.7	3319.8
57.5°	1948.7	2020.7	2209.8	2531.3	3095.4	3602.7	3738.3	3751.7	3618.6	3413.5	3323.1
60°	813.6	871.4	1021.2	1234.7	1700.9	2304.4	2567.2	2830.9	3149.0	3264.5	3292.1
62.5°	505.6	510.6	525.7	574.2	729.9	1024.6	1193.6	1440.6	1913.5	2316.1	2502.0
65°	456.2	458.7	462.1	458.7	466.2	502.2	547.4	633.7	826.2	1026.2	1264.0
67.5°	401.8	405.1	407.6	405.1	407.6	409.3	414.3	421.9	457.0	485.5	507.3
70°	324.8	329.8	334.0	332.3	342.4	342.4	347.4	353.2	370.8	391.7	406.8
72.5°	247.8	243.6	248.6	250.3	259.5	264.5	272.0	278.7	298.8	311.4	330.6
75°	160.7	156.5	164.1	168.2	180.8	187.5	194.2	200.9	215.1	223.5	241.9
77.5°	87.1	86.2	93.8	99.6	113.0	121.4	126.4	131.4	143.1	145.6	157.4
80°	50.2	50.2	55.2	59.4	67.8	77.0	82.0	86.2	94.6	97.1	102.1
82.5°	27.6	27.6	30.1	32.6	39.3	44.4	48.5	51.9	59.4	61.9	64.5
85°	13.4	12.6	14.2	15.9	18.4	20.9	23.4	25.1	31.0	32.6	36.0
87.5°	1.7	1.7	1.7	2.5	3.3	5.0	5.9	5.9	9.2	10.9	12.6
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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1721.8	1710.9	1717.6	1720.1	1720.1	1717.6	1706.8	1703.4	1698.4	1690.9	1690.9
5°	1760.3	1752.0	1753.6	1749.4	1739.4	1726.8	1706.8	1696.7	1688.3	1679.1	1678.3
7.5°	1826.5	1815.6	1813.9	1798.0	1771.2	1744.4	1714.3	1695.9	1683.3	1671.6	1670.8
10°	1912.7	1902.6	1890.1	1858.3	1818.9	1779.6	1738.6	1713.5	1695.0	1678.3	1677.5
12.5°	2008.9	1997.2	1973.8	1926.9	1877.5	1839.0	1792.1	1753.6	1726.0	1703.4	1699.2
15°	2113.6	2096.8	2056.6	2001.4	1952.8	1911.8	1861.6	1806.4	1764.5	1728.5	1724.3
17.5°	2193.9	2172.2	2128.6	2076.7	2036.6	1995.5	1930.2	1860.8	1800.5	1755.3	1748.6
20°	2249.2	2231.6	2182.2	2143.7	2120.3	2084.3	2008.1	1929.4	1861.6	1804.7	1801.3
22.5°	2300.2	2279.3	2230.8	2208.2	2208.2	2183.9	2111.1	2018.1	1938.6	1872.5	1864.1
25°	2358.0	2335.4	2298.6	2296.0	2307.8	2296.9	2209.0	2109.4	2016.5	1942.0	1928.6
27.5°	2438.3	2413.2	2391.5	2406.5	2423.3	2411.6	2313.6	2198.1	2100.2	2024.8	2013.1
30°	2566.4	2535.4	2515.4	2533.8	2566.4	2532.1	2425.8	2303.6	2204.8	2121.9	2116.1
32.5°	2715.4	2680.3	2659.3	2688.6	2717.9	2664.3	2558.9	2441.7	2337.9	2250.8	2240.8
35°	2894.5	2850.2	2819.2	2858.5	2888.7	2835.9	2731.3	2620.0	2504.5	2414.1	2400.7
37.5°	3053.6	3000.0	2979.1	3034.3	3074.5	3040.2	2926.3	2821.7	2695.3	2596.5	2590.7
40°	3169.1	3116.4	3101.3	3192.5	3262.8	3254.5	3152.3	3032.7	2913.8	2799.9	2789.1
42.5°	3219.3	3182.5	3185.8	3308.9	3417.7	3471.3	3380.0	3252.0	3137.3	3019.3	3011.7
45°	3230.2	3207.6	3234.4	3388.4	3531.5	3641.2	3563.3	3456.2	3326.5	3212.6	3209.3
47.5°	3241.9	3229.4	3270.4	3433.6	3603.5	3730.8	3687.2	3576.7	3445.3	3334.0	3325.6
50°	3269.5	3264.5	3310.6	3465.4	3637.8	3755.0	3705.6	3596.0	3461.2	3351.6	3331.5
52.5°	3277.9	3269.5	3335.7	3514.8	3694.8	3754.2	3647.9	3504.7	3369.1	3246.9	3226.0
55°	3303.9	3288.8	3334.0	3533.2	3773.4	3802.7	3644.5	3430.3	3241.1	3074.5	3025.1
57.5°	3310.6	3293.8	3323.1	3503.1	3688.1	3662.1	3203.4	2768.1	2411.6	2226.6	2247.5
60°	3274.6	3279.6	3229.4	3209.3	2958.2	2611.6	1961.2	1567.8	1231.3	1089.0	1120.0
62.5°	2492.8	2513.7	2342.1	2036.6	1566.1	1241.4	821.2	637.8	539.9	514.8	519.0
65°	1258.1	1286.6	1108.3	916.6	681.4	550.8	476.3	461.2	456.2	450.3	450.3
67.5°	498.0	506.4	499.7	467.9	435.3	423.5	420.2	418.5	412.7	409.3	410.2
70°	400.1	406.8	396.8	376.7	363.3	362.4	360.8	357.4	353.2	353.2	355.7
72.5°	326.5	333.1	318.9	306.4	296.3	288.8	284.6	282.1	276.2	276.2	278.7
75°	240.2	244.4	232.7	231.0	220.1	212.6	205.9	202.6	195.0	191.7	194.2
77.5°	159.9	159.0	153.2	153.2	149.0	139.8	132.3	124.7	114.7	108.0	109.7
80°	103.8	103.8	101.3	101.3	97.1	89.6	80.4	72.8	67.0	61.9	61.9
82.5°	66.1	65.3	64.5	63.6	61.9	54.4	47.7	42.7	38.5	35.2	36.0
85°	36.8	36.8	35.2	35.2	31.8	27.6	24.3	20.9	18.4	17.6	17.6
87.5°	12.6	12.6	11.7	11.7	10.0	7.5	5.9	5.0	4.2	3.3	4.2
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)