

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: P632747

Luminaire Tested: GWS-SA2D-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632747
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10151.8 lumens
Efficiency: N/A
Efficacy: 123.7 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

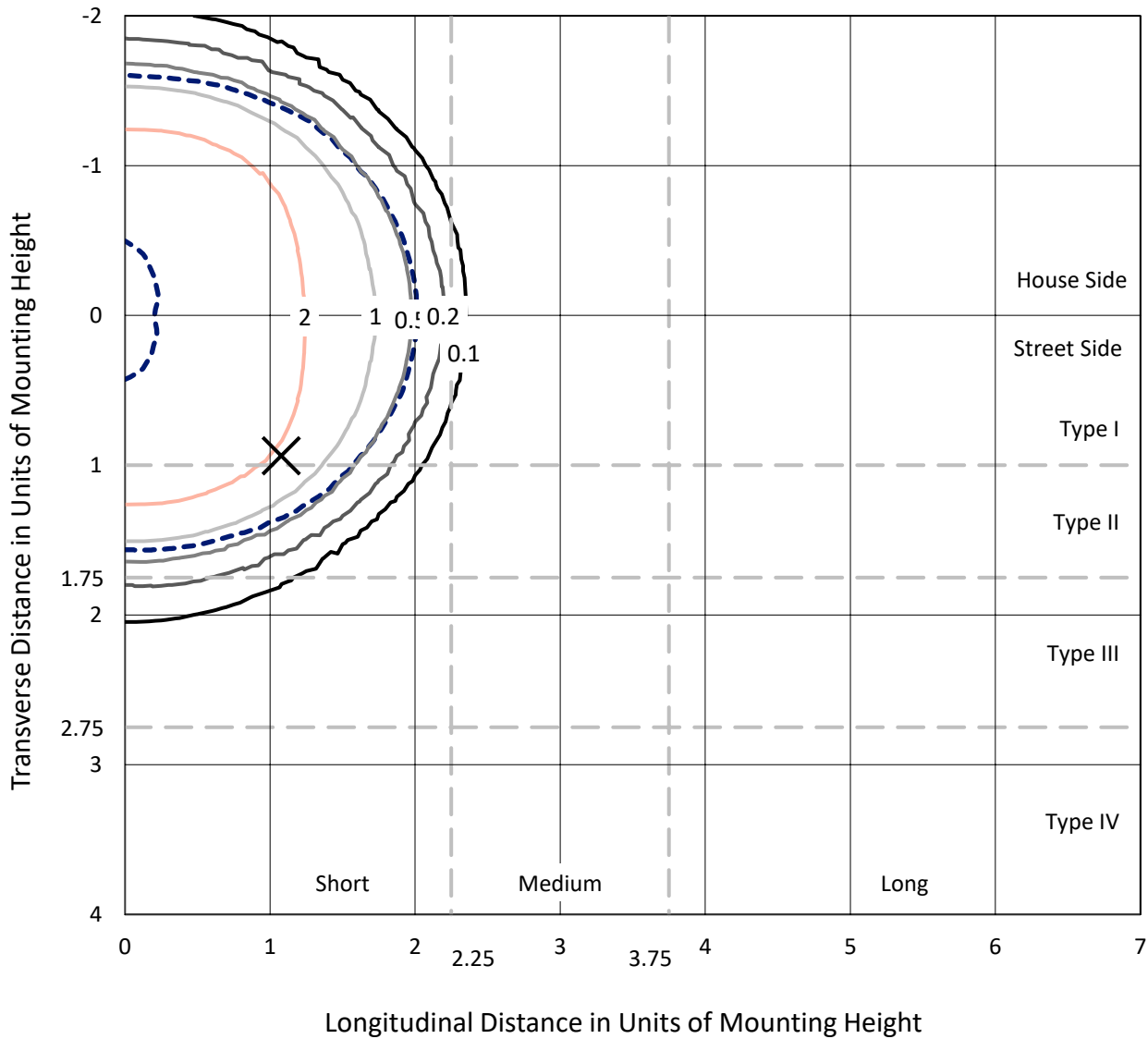


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Iso-Footcandle Lines of Horizontal Illumination

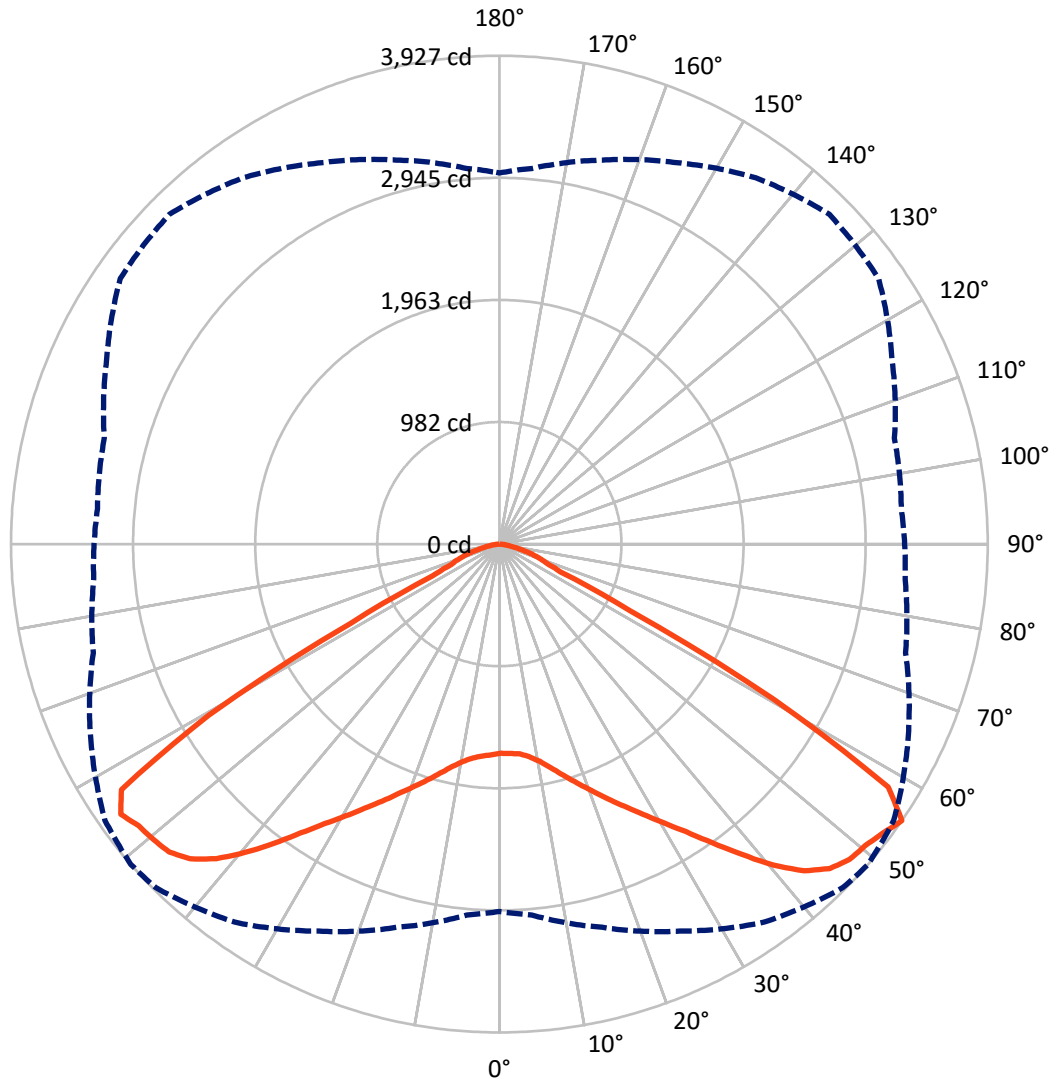
✕ Max cd
 - - - 1/2 Max cd



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	5026.1	0.0	5026.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5125.7	0.0	5125.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	10151.8	0.0	10151.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	1.6
10°-20°	541.1	5.3
20°-30°	1030.7	10.2
30°-40°	1747.2	17.2
40°-50°	2629.4	25.9
50°-60°	2878.1	28.4
60°-70°	910.1	9.0
70°-80°	218.4	2.2
80°-90°	32.8	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°	10151.8	100.0
0°-180°	10151.8	100.0

Coefficient of Utilization



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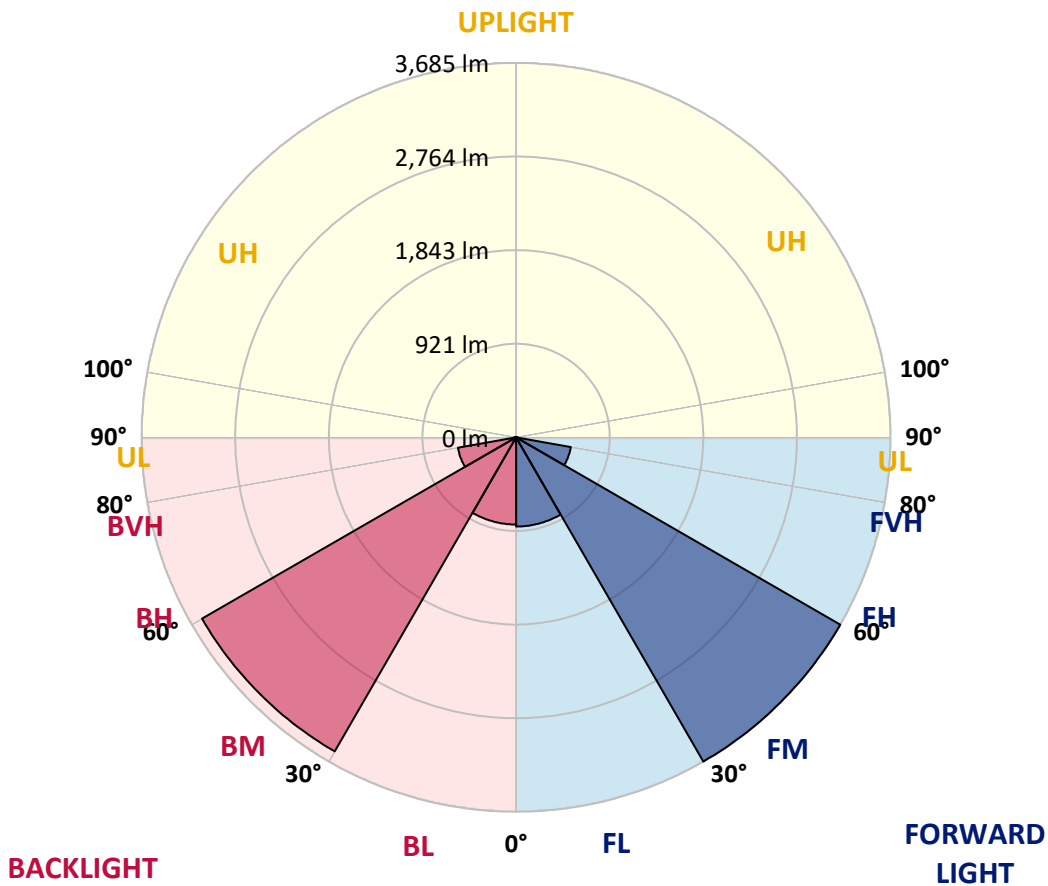
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.7	8.6			
FM (30°-60°)	3685.4	36.3			
FH (60°-80°)	547.4	5.4			G0/660
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	858.1	8.5	B2/1000		
BM (30°-60°)	3569.3	35.2	B3/5000		
BH (60°-80°)	581.1	5.7	B2/1000		G0/660
BVH (80°-90°)	17.6	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°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1656.9	1658.6	1661.9	1667.7	1673.5	1681.7	1685.0	1689.1	1688.3	1693.3	1693.3
5°	1648.7	1651.2	1656.1	1664.4	1674.3	1690.0	1694.1	1704.0	1713.9	1726.3	1730.4
7.5°	1658.6	1661.9	1667.7	1680.9	1695.7	1716.4	1724.6	1741.1	1760.1	1782.4	1791.5
10°	1677.6	1681.7	1691.6	1713.1	1737.0	1768.4	1775.8	1796.5	1827.0	1857.6	1875.7
12.5°	1699.0	1705.6	1723.8	1757.7	1793.2	1834.4	1846.0	1871.6	1904.6	1944.2	1969.0
15°	1723.8	1729.6	1757.7	1805.5	1860.9	1915.3	1928.6	1953.3	1990.5	2029.3	2064.0
17.5°	1775.8	1785.7	1818.8	1874.1	1938.5	2002.9	2017.7	2045.8	2075.5	2106.1	2139.1
20°	1846.8	1855.1	1897.2	1965.7	2041.7	2100.3	2115.1	2139.9	2153.9	2169.6	2197.7
22.5°	1917.8	1929.4	1977.3	2058.2	2147.3	2210.9	2222.5	2245.6	2235.7	2230.7	2248.9
25°	2006.2	2021.8	2068.9	2157.2	2248.1	2326.5	2335.6	2355.4	2338.9	2313.3	2312.5
27.5°	2116.0	2130.0	2178.7	2269.5	2359.5	2441.2	2458.6	2485.0	2448.7	2417.3	2395.0
30°	2246.4	2255.5	2309.1	2405.7	2498.2	2575.8	2598.1	2624.5	2597.3	2545.3	2523.0
32.5°	2398.3	2410.7	2472.6	2574.2	2656.7	2734.3	2756.6	2789.6	2759.9	2701.3	2673.2
35°	2580.8	2593.1	2658.4	2769.0	2853.2	2933.3	2949.0	2976.2	2939.1	2871.4	2849.1
37.5°	2778.9	2794.6	2877.1	2982.0	3070.3	3163.6	3164.4	3172.7	3119.9	3035.7	3010.9
40°	3001.8	3022.4	3105.0	3214.0	3320.5	3396.4	3395.6	3372.5	3283.3	3152.9	3114.9
42.5°	3222.2	3238.8	3322.1	3434.4	3540.9	3612.7	3591.3	3535.1	3406.3	3228.8	3178.5
45°	3381.6	3394.0	3481.5	3607.8	3715.9	3760.5	3721.7	3654.0	3479.8	3276.7	3202.4
47.5°	3456.7	3473.2	3561.6	3687.0	3809.2	3834.8	3788.6	3725.0	3522.8	3321.3	3221.4
50°	3416.3	3437.7	3537.6	3654.0	3791.9	3844.7	3811.7	3748.1	3568.2	3365.1	3255.3
52.5°	3311.4	3332.0	3458.4	3599.5	3755.6	3860.4	3859.6	3807.6	3620.2	3377.4	3256.9
55°	2953.1	2993.6	3190.0	3433.6	3711.0	3906.6	3926.5	3871.1	3628.4	3380.8	3274.3
57.5°	1922.0	1993.0	2179.5	2496.6	3053.0	3553.3	3687.0	3700.3	3569.0	3366.7	3277.6
60°	802.5	859.4	1007.2	1217.7	1677.6	2272.8	2532.1	2792.1	3105.8	3219.8	3247.0
62.5°	498.7	503.6	518.5	566.3	719.9	1010.5	1177.3	1420.8	1887.3	2284.4	2467.7
65°	449.9	452.4	455.7	452.4	459.8	495.3	539.9	625.0	814.8	1012.2	1246.6
67.5°	396.3	399.6	402.1	399.6	402.1	403.7	408.7	416.1	450.8	478.8	500.3
70°	320.3	325.3	329.4	327.8	337.7	337.7	342.6	348.4	365.7	386.4	401.2
72.5°	244.4	240.2	245.2	246.8	255.9	260.9	268.3	274.9	294.7	307.1	326.1
75°	158.5	154.4	161.8	165.9	178.3	184.9	191.5	198.1	212.2	220.4	238.6
77.5°	85.9	85.0	92.5	98.2	111.5	119.7	124.7	129.6	141.2	143.7	155.2
80°	49.5	49.5	54.5	58.6	66.9	76.0	80.9	85.0	93.3	95.8	100.7
82.5°	27.2	27.2	29.7	32.2	38.8	43.8	47.9	51.2	58.6	61.1	63.6
85°	13.2	12.4	14.0	15.7	18.2	20.6	23.1	24.8	30.5	32.2	35.5
87.5°	1.7	1.7	1.7	2.5	3.3	5.0	5.8	5.8	9.1	10.7	12.4
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°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1698.2	1687.5	1694.1	1696.6	1696.6	1694.1	1683.4	1680.1	1675.1	1667.7	1667.7
5°	1736.2	1727.9	1729.6	1725.5	1715.6	1703.2	1683.4	1673.5	1665.2	1656.1	1655.3
7.5°	1801.4	1790.7	1789.0	1773.3	1746.9	1720.5	1690.8	1672.6	1660.2	1648.7	1647.9
10°	1886.5	1876.5	1864.2	1832.8	1794.0	1755.2	1714.7	1690.0	1671.8	1655.3	1654.5
12.5°	1981.4	1969.8	1946.7	1900.5	1851.8	1813.8	1767.6	1729.6	1702.3	1680.1	1675.9
15°	2084.6	2068.1	2028.5	1974.0	1926.1	1885.6	1836.1	1781.6	1740.3	1704.8	1700.7
17.5°	2163.8	2142.4	2099.5	2048.3	2008.6	1968.2	1903.8	1835.3	1775.8	1731.2	1724.6
20°	2218.3	2201.0	2152.3	2114.3	2091.2	2055.7	1980.6	1903.0	1836.1	1780.0	1776.6
22.5°	2268.7	2248.1	2200.2	2177.9	2177.9	2153.9	2082.1	1990.5	1912.0	1846.8	1838.6
25°	2325.7	2303.4	2267.0	2264.6	2276.1	2265.4	2178.7	2080.5	1988.8	1915.3	1902.1
27.5°	2404.9	2380.1	2358.7	2373.5	2390.1	2378.5	2281.9	2168.0	2071.4	1997.1	1985.5
30°	2531.2	2500.7	2480.9	2499.0	2531.2	2497.4	2392.5	2272.0	2174.6	2092.8	2087.1
32.5°	2678.2	2643.5	2622.9	2651.8	2680.7	2627.8	2523.8	2408.2	2305.8	2220.0	2210.1
35°	2854.9	2811.1	2780.6	2819.4	2849.1	2797.1	2693.9	2584.1	2470.1	2381.0	2367.8
37.5°	3011.7	2958.9	2938.2	2992.7	3032.4	2998.5	2886.2	2783.0	2658.4	2561.0	2555.2
40°	3125.6	3073.6	3058.8	3148.8	3218.1	3209.9	3109.1	2991.1	2873.8	2761.6	2750.8
42.5°	3175.2	3138.9	3142.2	3263.5	3370.8	3423.7	3333.7	3207.4	3094.3	2977.9	2970.4
45°	3185.9	3163.6	3190.0	3341.9	3483.1	3591.3	3514.5	3408.8	3280.9	3168.6	3165.3
47.5°	3197.5	3185.1	3225.5	3386.5	3554.1	3679.6	3636.7	3527.7	3398.1	3288.3	3280.0
50°	3224.7	3219.8	3265.2	3417.9	3588.0	3703.6	3654.8	3546.7	3413.8	3305.6	3285.8
52.5°	3233.0	3224.7	3289.9	3466.6	3644.1	3702.7	3597.9	3456.7	3323.0	3202.4	3181.8
55°	3258.6	3243.7	3288.3	3484.8	3721.7	3750.6	3594.6	3383.2	3196.6	3032.4	2983.6
57.5°	3265.2	3248.7	3277.6	3455.1	3637.5	3611.9	3159.5	2730.2	2378.5	2196.0	2216.7
60°	3229.7	3234.6	3185.1	3165.3	2917.6	2575.8	1934.3	1546.3	1214.4	1074.1	1104.6
62.5°	2458.6	2479.2	2310.0	2008.6	1544.7	1224.3	809.9	629.1	532.5	507.7	511.9
65°	1240.8	1268.9	1093.1	904.0	672.0	543.2	469.8	454.9	449.9	444.2	444.2
67.5°	491.2	499.5	492.9	461.5	429.3	417.7	414.4	412.8	407.0	403.7	404.5
70°	394.6	401.2	391.3	371.5	358.3	357.5	355.8	352.5	348.4	348.4	350.9
72.5°	322.0	328.6	314.5	302.2	292.3	284.8	280.7	278.2	272.4	272.4	274.9
75°	236.9	241.1	229.5	227.9	217.1	209.7	203.1	199.8	192.4	189.1	191.5
77.5°	157.7	156.9	151.1	151.1	147.0	137.9	130.4	123.0	113.1	106.5	108.2
80°	102.4	102.4	99.9	99.9	95.8	88.3	79.3	71.8	66.0	61.1	61.1
82.5°	65.2	64.4	63.6	62.7	61.1	53.7	47.1	42.1	38.0	34.7	35.5
85°	36.3	36.3	34.7	34.7	31.4	27.2	23.9	20.6	18.2	17.3	17.3
87.5°	12.4	12.4	11.6	11.6	9.9	7.4	5.8	5.0	4.1	3.3	4.1
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)