

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: P632857

Luminaire Tested: GWS-SA2D-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632857
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10528.8 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

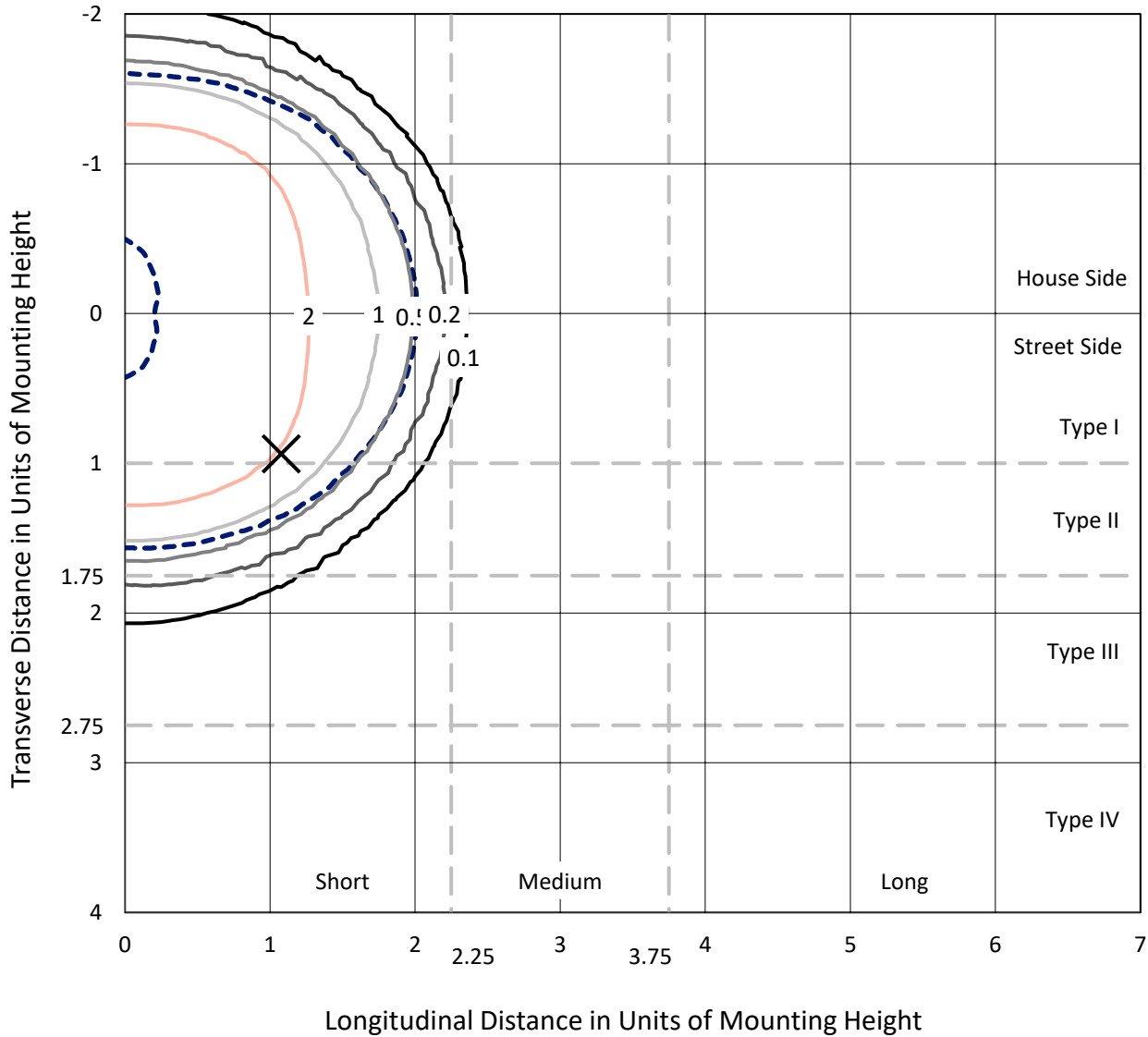
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

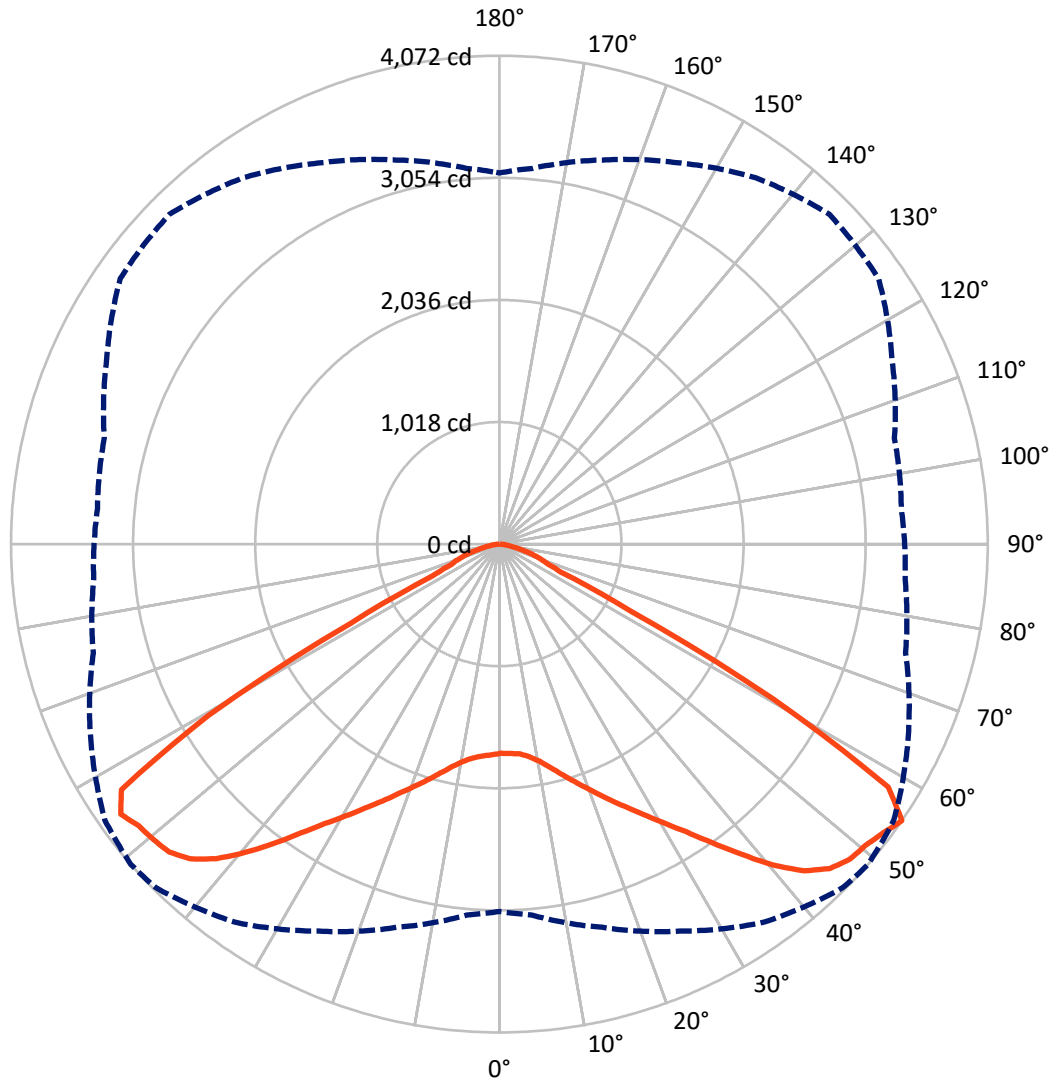
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	5212.8	0.0	5212.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5316.0	0.0	5316.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	10528.8	0.0	10528.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.6
10°-20°	561.2	5.3
20°-30°	1068.9	10.2
30°-40°	1812.1	17.2
40°-50°	2727.0	25.9
50°-60°	2985.0	28.4
60°-70°	943.9	9.0
70°-80°	226.5	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°	10528.8	100.0
0°-180°	10528.8	100.0

Coefficient of Utilization



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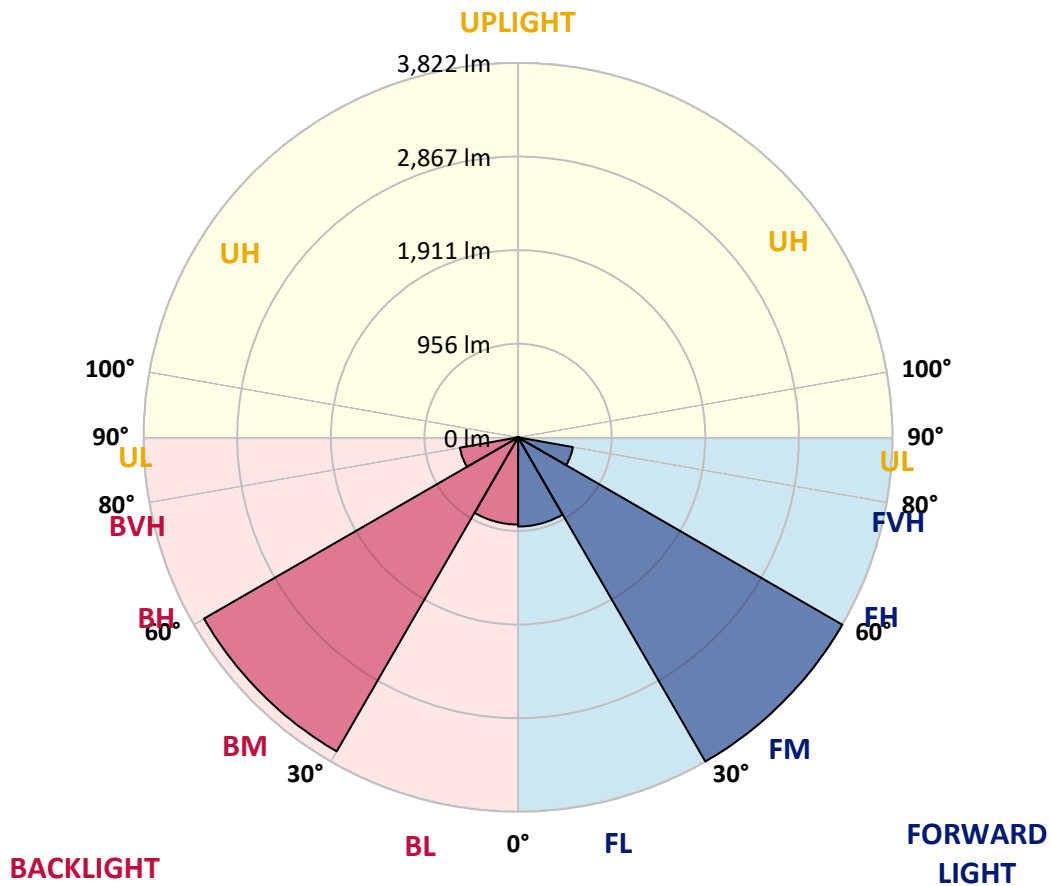
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.3	8.6			
FM (30°-60°)	3822.3	36.3			
FH (60°-80°)	567.7	5.4			G0/660
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	890.0	8.5	B2/1000		
BM (30°-60°)	3701.9	35.2	B3/5000		
BH (60°-80°)	602.7	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°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1718.5	1720.2	1723.6	1729.6	1735.6	1744.2	1747.6	1751.9	1751.0	1756.1	1756.1
5°	1709.9	1712.5	1717.6	1726.2	1736.5	1752.7	1757.0	1767.3	1777.6	1790.4	1794.7
7.5°	1720.2	1723.6	1729.6	1743.3	1758.7	1780.1	1788.7	1805.8	1825.5	1848.6	1858.0
10°	1739.9	1744.2	1754.4	1776.7	1801.5	1834.1	1841.8	1863.2	1894.9	1926.5	1945.4
12.5°	1762.1	1769.0	1787.8	1822.9	1859.8	1902.6	1914.6	1941.1	1975.3	2016.4	2042.1
15°	1787.8	1793.8	1822.9	1872.6	1930.0	1986.5	2000.2	2025.9	2064.4	2104.6	2140.6
17.5°	1841.8	1852.0	1886.3	1943.7	2010.5	2077.2	2092.6	2121.8	2152.6	2184.3	2218.5
20°	1915.4	1924.0	1967.6	2038.7	2117.5	2178.3	2193.7	2219.4	2233.9	2250.2	2279.3
22.5°	1989.0	2001.0	2050.7	2134.6	2227.1	2293.0	2305.0	2329.0	2318.7	2313.6	2332.4
25°	2080.7	2096.9	2145.7	2237.4	2331.5	2412.9	2422.3	2442.9	2425.7	2399.2	2398.3
27.5°	2194.5	2209.1	2259.6	2353.8	2447.1	2531.9	2549.9	2577.3	2539.6	2507.1	2484.0
30°	2329.8	2339.2	2394.9	2495.1	2591.0	2671.5	2694.6	2722.0	2693.7	2639.8	2616.7
32.5°	2487.4	2500.2	2564.4	2669.8	2755.4	2835.9	2859.0	2893.2	2862.4	2801.6	2772.5
35°	2676.6	2689.4	2757.1	2871.8	2959.2	3042.2	3058.5	3086.7	3048.2	2978.0	2954.9
37.5°	2882.1	2898.4	2984.0	3092.7	3184.4	3281.1	3282.0	3290.5	3235.7	3148.4	3122.7
40°	3113.3	3134.7	3220.3	3333.3	3443.8	3522.6	3521.7	3497.7	3405.3	3270.0	3230.6
42.5°	3341.9	3359.0	3445.5	3562.0	3672.4	3746.9	3724.6	3666.4	3532.8	3348.8	3296.5
45°	3507.2	3520.0	3610.8	3741.8	3853.9	3900.2	3859.9	3789.7	3609.0	3398.4	3321.4
47.5°	3585.1	3602.2	3693.8	3824.0	3950.7	3977.2	3929.3	3863.4	3653.6	3444.7	3341.0
50°	3543.1	3565.4	3669.0	3789.7	3932.7	3987.5	3953.3	3887.3	3700.7	3490.0	3376.2
52.5°	3434.4	3455.8	3586.8	3733.2	3895.0	4003.8	4002.9	3949.0	3754.6	3502.9	3377.9
55°	3062.8	3104.7	3308.5	3561.1	3848.8	4051.7	4072.3	4014.9	3763.2	3506.3	3395.8
57.5°	1993.3	2067.0	2260.5	2589.3	3166.4	3685.3	3824.0	3837.7	3701.5	3491.7	3399.3
60°	832.3	891.3	1044.6	1263.0	1739.9	2357.2	2626.1	2895.8	3221.2	3339.3	3367.6
62.5°	517.2	522.3	537.7	587.4	746.6	1048.0	1221.0	1473.6	1957.4	2369.2	2559.3
65°	466.7	469.2	472.6	469.2	476.9	513.7	560.0	648.2	845.1	1049.7	1292.9
67.5°	411.0	414.4	417.0	414.4	417.0	418.7	423.8	431.5	467.5	496.6	518.9
70°	332.2	337.4	341.6	339.9	350.2	350.2	355.3	361.3	379.3	400.7	416.1
72.5°	253.4	249.2	254.3	256.0	265.4	270.6	278.3	285.1	305.7	318.5	338.2
75°	164.4	160.1	167.8	172.1	184.9	191.8	198.6	205.5	220.1	228.6	247.5
77.5°	89.0	88.2	95.9	101.9	115.6	124.2	129.3	134.4	146.4	149.0	161.0
80°	51.4	51.4	56.5	60.8	69.4	78.8	83.9	88.2	96.8	99.3	104.5
82.5°	28.3	28.3	30.8	33.4	40.2	45.4	49.7	53.1	60.8	63.4	65.9
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°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1761.3	1750.2	1757.0	1759.6	1759.6	1757.0	1745.9	1742.4	1737.3	1729.6	1729.6
5°	1800.7	1792.1	1793.8	1789.5	1779.3	1766.4	1745.9	1735.6	1727.0	1717.6	1716.8
7.5°	1868.3	1857.2	1855.5	1839.2	1811.8	1784.4	1753.6	1734.7	1721.9	1709.9	1709.1
10°	1956.5	1946.2	1933.4	1900.9	1860.6	1820.4	1778.4	1752.7	1733.9	1716.8	1715.9
12.5°	2055.0	2043.0	2019.0	1971.1	1920.5	1881.2	1833.2	1793.8	1765.6	1742.4	1738.2
15°	2162.0	2144.9	2103.8	2047.3	1997.6	1955.7	1904.3	1847.8	1805.0	1768.1	1763.9
17.5°	2244.2	2221.9	2177.4	2124.3	2083.2	2041.3	1974.5	1903.4	1841.8	1795.5	1788.7
20°	2300.7	2282.7	2232.2	2192.8	2168.9	2132.0	2054.1	1973.6	1904.3	1846.1	1842.6
22.5°	2352.9	2331.5	2281.9	2258.8	2258.8	2233.9	2159.4	2064.4	1983.1	1915.4	1906.8
25°	2412.0	2388.9	2351.2	2348.7	2360.7	2349.5	2259.6	2157.7	2062.7	1986.5	1972.8
27.5°	2494.2	2468.5	2446.3	2461.7	2478.8	2466.8	2366.6	2248.5	2148.3	2071.2	2059.3
30°	2625.2	2593.5	2573.0	2591.8	2625.2	2590.1	2481.4	2356.4	2255.3	2170.6	2164.6
32.5°	2777.6	2741.7	2720.3	2750.2	2780.2	2725.4	2617.5	2497.7	2391.5	2302.4	2292.2
35°	2960.9	2915.5	2883.8	2924.1	2954.9	2900.9	2793.9	2680.0	2561.9	2469.4	2455.7
37.5°	3123.6	3068.8	3047.4	3103.9	3145.0	3109.9	2993.4	2886.4	2757.1	2656.1	2650.1
40°	3241.7	3187.8	3172.4	3265.7	3337.6	3329.1	3224.6	3102.2	2980.6	2864.1	2853.0
42.5°	3293.1	3255.4	3258.8	3384.7	3496.0	3550.8	3457.5	3326.5	3209.2	3088.5	3080.7
45°	3304.2	3281.1	3308.5	3466.1	3612.5	3724.6	3645.0	3535.4	3402.7	3286.2	3282.8
47.5°	3316.2	3303.4	3345.3	3512.3	3686.1	3816.3	3771.7	3658.7	3524.3	3410.4	3401.8
50°	3344.5	3339.3	3386.4	3544.8	3721.2	3841.1	3790.6	3678.4	3540.5	3428.4	3407.8
52.5°	3353.0	3344.5	3412.1	3595.3	3779.4	3840.2	3731.5	3585.1	3446.4	3321.4	3299.9
55°	3379.6	3364.2	3410.4	3614.2	3859.9	3889.9	3728.1	3508.9	3315.4	3145.0	3094.4
57.5°	3386.4	3369.3	3399.3	3583.4	3772.6	3746.0	3276.8	2831.6	2466.8	2277.6	2299.0
60°	3349.6	3354.7	3303.4	3282.8	3025.9	2671.5	2006.2	1603.7	1259.5	1114.0	1145.6
62.5°	2549.9	2571.3	2395.8	2083.2	1602.0	1269.8	840.0	652.5	552.3	526.6	530.9
65°	1286.9	1316.0	1133.7	937.6	697.0	563.4	487.2	471.8	466.7	460.7	460.7
67.5°	509.5	518.0	511.2	478.6	445.2	433.3	429.8	428.1	422.1	418.7	419.6
70°	409.3	416.1	405.9	385.3	371.6	370.8	369.0	365.6	361.3	361.3	363.9
72.5°	333.9	340.8	326.2	313.4	303.1	295.4	291.1	288.6	282.6	282.6	285.1
75°	245.7	250.0	238.0	236.3	225.2	217.5	210.6	207.2	199.5	196.1	198.6
77.5°	163.5	162.7	156.7	156.7	152.4	143.0	135.3	127.6	117.3	110.5	112.2
80°	106.2	106.2	103.6	103.6	99.3	91.6	82.2	74.5	68.5	63.4	63.4
82.5°	67.6	66.8	65.9	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	32.5	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)