

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: P632912

Luminaire Tested: GWS-SA2D-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632912
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10384.5 lumens
Efficiency: N/A
Efficacy: 126.5 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

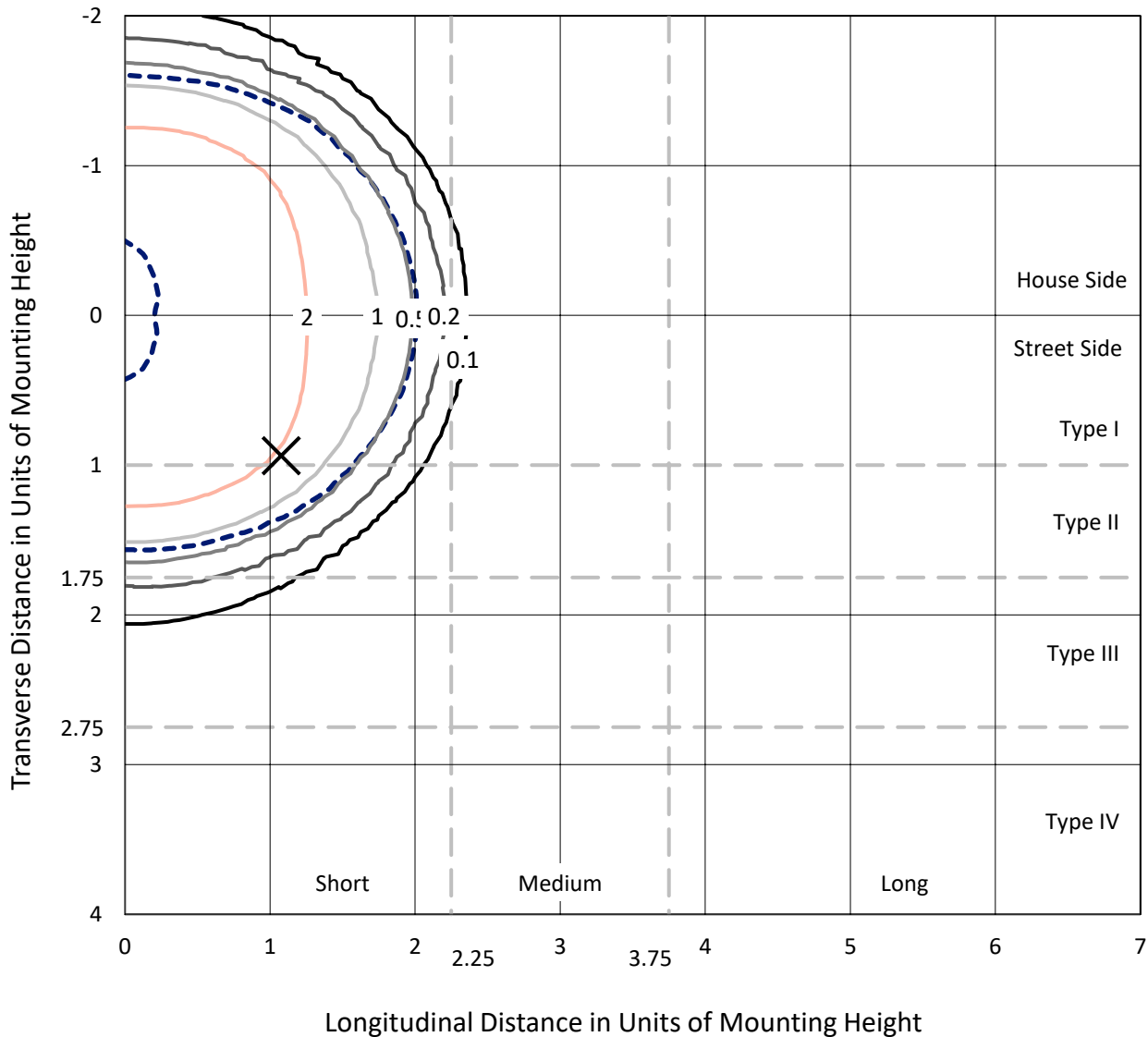


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Iso-Footcandle Lines of Horizontal Illumination

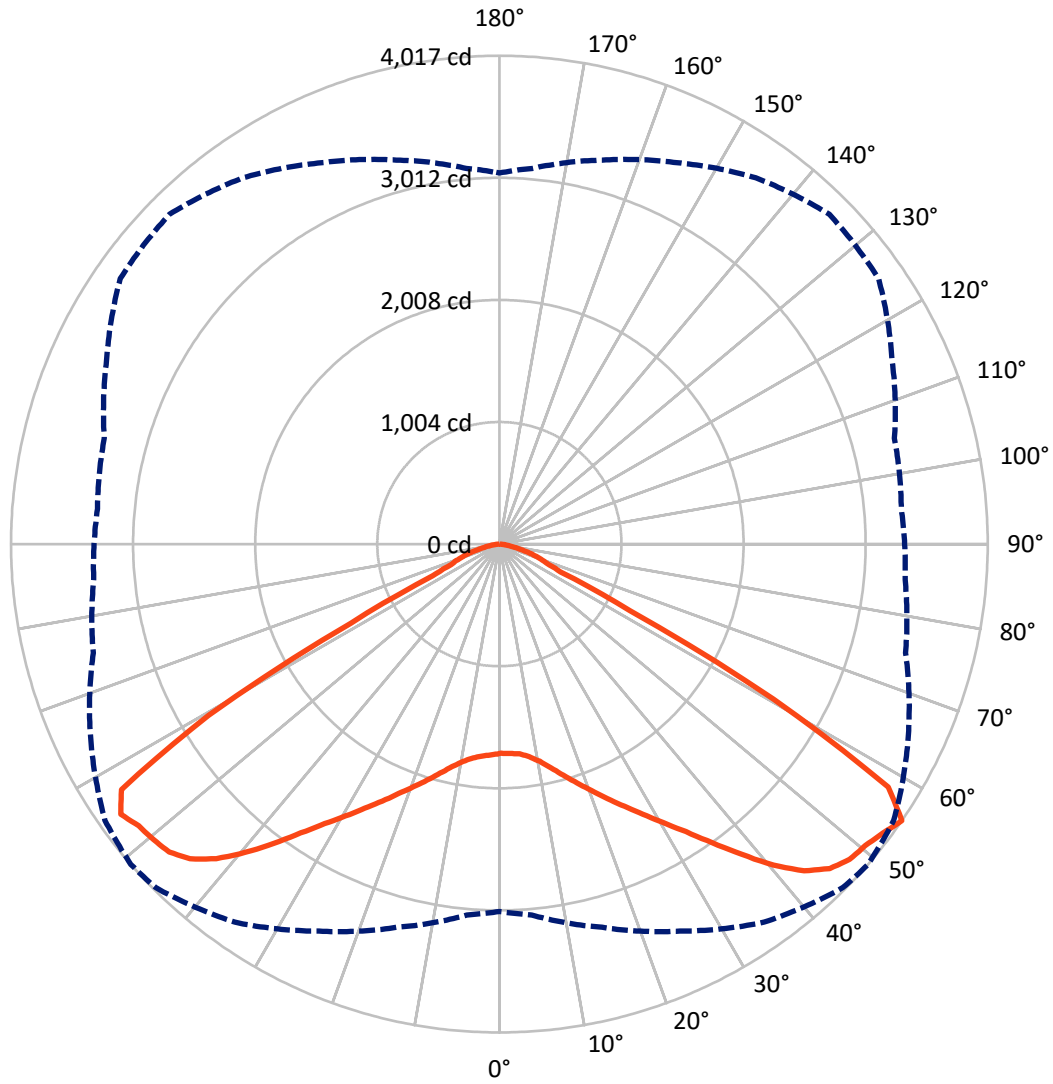
✕ Max cd
 - - - 1/2 Max cd



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	5141.3	0.0	5141.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	5243.2	0.0	5243.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	10384.5	0.0	10384.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.6
10°-20°	553.5	5.3
20°-30°	1054.3	10.2
30°-40°	1787.2	17.2
40°-50°	2689.7	25.9
50°-60°	2944.1	28.4
60°-70°	930.9	9.0
70°-80°	223.4	2.2
80°-90°	33.5	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°	10384.5	100.0
0°-180°	10384.5	100.0

Coefficient of Utilization



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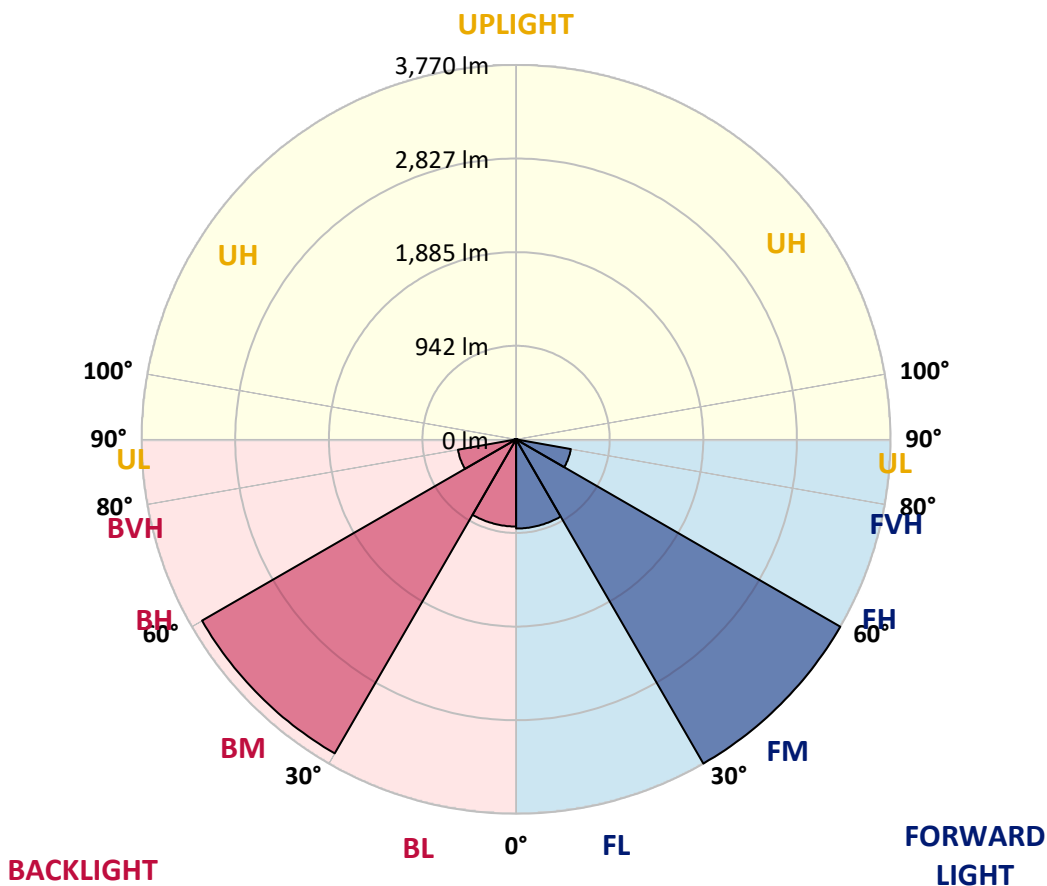
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.8	8.6			
FM (30°-60°)	3769.9	36.3			
FH (60°-80°)	560.0	5.4			G0/660
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	877.8	8.5	B2/1000		
BM (30°-60°)	3651.1	35.2	B3/5000		
BH (60°-80°)	594.4	5.7	B2/1000		G0/660
BVH (80°-90°)	18.0	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°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1694.9	1696.6	1700.0	1705.9	1711.8	1720.3	1723.6	1727.9	1727.0	1732.1	1732.1
5°	1686.5	1689.0	1694.1	1702.5	1712.7	1728.7	1732.9	1743.1	1753.2	1765.9	1770.1
7.5°	1696.6	1700.0	1705.9	1719.4	1734.6	1755.7	1764.2	1781.1	1800.5	1823.3	1832.6
10°	1716.0	1720.3	1730.4	1752.3	1776.8	1808.9	1816.5	1837.6	1868.9	1900.1	1918.7
12.5°	1738.0	1744.7	1763.3	1797.9	1834.3	1876.5	1888.3	1914.5	1948.3	1988.8	2014.1
15°	1763.3	1769.2	1797.9	1846.9	1903.5	1959.3	1972.8	1998.1	2036.1	2075.8	2111.3
17.5°	1816.5	1826.7	1860.4	1917.0	1982.9	2048.8	2064.0	2092.7	2123.1	2154.3	2188.1
20°	1889.2	1897.6	1940.7	2010.8	2088.5	2148.4	2163.6	2189.0	2203.3	2219.4	2248.1
22.5°	1961.8	1973.6	2022.6	2105.3	2196.6	2261.6	2273.4	2297.1	2286.9	2281.9	2300.4
25°	2052.1	2068.2	2116.3	2206.7	2299.6	2379.8	2389.1	2409.4	2392.5	2366.3	2365.5
27.5°	2164.5	2178.8	2228.6	2321.5	2413.6	2497.2	2514.9	2542.0	2504.8	2472.7	2449.9
30°	2297.9	2307.2	2362.1	2460.9	2555.5	2634.9	2657.7	2684.7	2656.8	2603.6	2580.8
32.5°	2453.3	2466.0	2529.3	2633.2	2717.6	2797.0	2819.8	2853.6	2823.2	2763.2	2734.5
35°	2639.9	2652.6	2719.3	2832.5	2918.6	3000.5	3016.6	3044.4	3006.4	2937.2	2914.4
37.5°	2842.6	2858.6	2943.1	3050.3	3140.7	3236.1	3237.0	3245.4	3191.4	3105.2	3079.9
40°	3070.6	3091.7	3176.2	3287.7	3396.6	3474.3	3473.4	3449.8	3358.6	3225.2	3186.3
42.5°	3296.1	3313.0	3398.3	3513.1	3622.1	3695.6	3673.6	3616.2	3484.4	3302.9	3251.3
45°	3459.1	3471.8	3561.3	3690.5	3801.1	3846.7	3807.0	3737.8	3559.6	3351.8	3275.8
47.5°	3535.9	3552.8	3643.2	3771.6	3896.5	3922.7	3875.4	3810.4	3603.5	3397.4	3295.3
50°	3494.6	3516.5	3618.7	3737.8	3878.8	3932.9	3899.1	3834.0	3649.9	3442.2	3329.9
52.5°	3387.3	3408.4	3537.6	3682.0	3841.7	3948.9	3948.1	3894.9	3703.2	3454.9	3331.6
55°	3020.8	3062.2	3263.2	3512.3	3796.0	3996.2	4016.5	3959.9	3711.6	3458.2	3349.3
57.5°	1966.0	2038.6	2229.5	2553.8	3123.0	3634.7	3771.6	3785.1	3650.8	3443.9	3352.7
60°	820.9	879.1	1030.3	1245.6	1716.0	2324.9	2590.1	2856.1	3177.0	3293.6	3321.4
62.5°	510.1	515.1	530.3	579.3	736.4	1033.7	1204.3	1453.4	1930.5	2336.7	2524.2
65°	460.3	462.8	466.2	462.8	470.4	506.7	552.3	639.3	833.5	1035.4	1275.2
67.5°	405.4	408.7	411.3	408.7	411.3	413.0	418.0	425.6	461.1	489.8	511.8
70°	327.7	332.7	337.0	335.3	345.4	345.4	350.5	356.4	374.1	395.2	410.4
72.5°	250.0	245.8	250.8	252.5	261.8	266.9	274.5	281.2	301.5	314.2	333.6
75°	162.1	157.9	165.5	169.7	182.4	189.2	195.9	202.7	217.0	225.5	244.1
77.5°	87.8	87.0	94.6	100.5	114.0	122.5	127.5	132.6	144.4	146.9	158.8
80°	50.7	50.7	55.7	60.0	68.4	77.7	82.8	87.0	95.4	98.0	103.0
82.5°	27.9	27.9	30.4	32.9	39.7	44.8	49.0	52.4	60.0	62.5	65.0
85°	13.5	12.7	14.4	16.0	18.6	21.1	23.6	25.3	31.2	32.9	36.3
87.5°	1.7	1.7	1.7	2.5	3.4	5.1	5.9	5.9	9.3	11.0	12.7
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°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1737.1	1726.2	1732.9	1735.5	1735.5	1732.9	1721.9	1718.6	1713.5	1705.9	1705.9
5°	1776.0	1767.5	1769.2	1765.0	1754.9	1742.2	1721.9	1711.8	1703.4	1694.1	1693.2
7.5°	1842.7	1831.7	1830.0	1814.0	1787.0	1759.9	1729.5	1711.0	1698.3	1686.5	1685.6
10°	1929.7	1919.6	1906.9	1874.8	1835.1	1795.4	1754.0	1728.7	1710.1	1693.2	1692.4
12.5°	2026.8	2015.0	1991.3	1944.0	1894.2	1855.4	1808.1	1769.2	1741.4	1718.6	1714.3
15°	2132.4	2115.5	2074.9	2019.2	1970.2	1928.8	1878.2	1822.4	1780.2	1743.9	1739.7
17.5°	2213.4	2191.5	2147.6	2095.2	2054.7	2013.3	1947.4	1877.3	1816.5	1770.9	1764.2
20°	2269.2	2251.4	2201.6	2162.8	2139.1	2102.8	2026.0	1946.6	1878.2	1820.8	1817.4
22.5°	2320.7	2299.6	2250.6	2227.8	2227.8	2203.3	2129.8	2036.1	1955.9	1889.2	1880.7
25°	2379.0	2356.2	2319.0	2316.5	2328.3	2317.3	2228.6	2128.2	2034.4	1959.3	1945.7
27.5°	2460.0	2434.7	2412.7	2428.0	2444.8	2433.0	2334.2	2217.7	2118.9	2042.9	2031.0
30°	2589.3	2558.0	2537.7	2556.3	2589.3	2554.6	2447.4	2324.1	2224.4	2140.8	2134.9
32.5°	2739.6	2704.1	2683.0	2712.5	2742.1	2688.1	2581.6	2463.4	2358.7	2270.9	2260.7
35°	2920.3	2875.5	2844.3	2884.0	2914.4	2861.2	2755.6	2643.3	2526.8	2435.6	2422.0
37.5°	3080.8	3026.7	3005.6	3061.3	3101.9	3067.2	2952.4	2846.8	2719.3	2619.7	2613.7
40°	3197.3	3144.1	3128.9	3220.9	3291.9	3283.4	3180.4	3059.6	2939.7	2824.9	2813.9
42.5°	3248.0	3210.8	3214.2	3338.3	3448.1	3502.2	3410.1	3280.9	3165.2	3046.1	3038.5
45°	3258.9	3236.1	3263.2	3418.6	3563.0	3673.6	3595.1	3487.0	3356.1	3241.2	3237.8
47.5°	3270.8	3258.1	3299.5	3464.2	3635.6	3764.0	3720.0	3608.6	3476.0	3363.7	3355.2
50°	3298.6	3293.6	3340.0	3496.2	3670.2	3788.4	3738.6	3628.0	3492.0	3381.4	3361.1
52.5°	3307.1	3298.6	3365.3	3546.1	3727.6	3787.6	3680.4	3535.9	3399.1	3275.8	3254.7
55°	3333.3	3318.1	3363.7	3564.7	3807.0	3836.6	3677.0	3460.8	3269.9	3101.9	3052.0
57.5°	3340.0	3323.1	3352.7	3534.3	3720.9	3694.7	3231.9	2792.8	2433.0	2246.4	2267.5
60°	3303.7	3308.8	3258.1	3237.8	2984.5	2634.9	1978.7	1581.8	1242.3	1098.7	1129.9
62.5°	2514.9	2536.0	2362.9	2054.7	1580.1	1252.4	828.5	643.5	544.7	519.4	523.6
65°	1269.3	1298.0	1118.1	924.7	687.4	555.7	480.5	465.3	460.3	454.3	454.3
67.5°	502.5	510.9	504.2	472.1	439.1	427.3	423.9	422.3	416.3	413.0	413.8
70°	403.7	410.4	400.3	380.0	366.5	365.7	364.0	360.6	356.4	356.4	358.9
72.5°	329.4	336.1	321.8	309.1	299.0	291.4	287.1	284.6	278.7	278.7	281.2
75°	242.4	246.6	234.8	233.1	222.1	214.5	207.7	204.4	196.8	193.4	195.9
77.5°	161.3	160.5	154.5	154.5	150.3	141.0	133.4	125.8	115.7	108.9	110.6
80°	104.7	104.7	102.2	102.2	98.0	90.4	81.1	73.5	67.6	62.5	62.5
82.5°	66.7	65.9	65.0	64.2	62.5	54.9	48.1	43.1	38.8	35.5	36.3
85°	37.2	37.2	35.5	35.5	32.1	27.9	24.5	21.1	18.6	17.7	17.7
87.5°	12.7	12.7	11.8	11.8	10.1	7.6	5.9	5.1	4.2	3.4	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)