

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: P633793

Luminaire Tested: GWS-SA2F-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16700 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

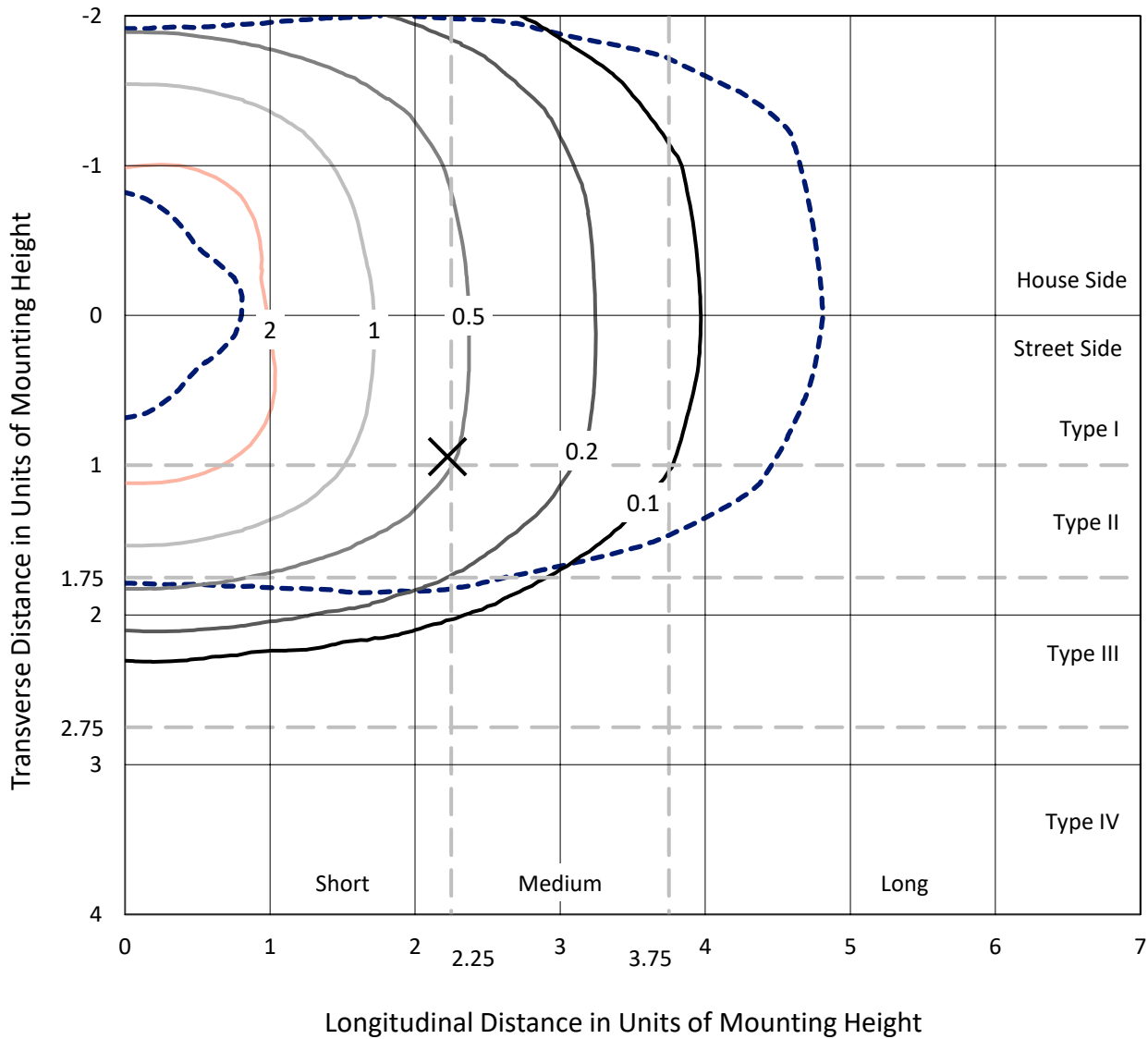
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633793
 CATALOG NUMBER: GWS-SA2F-740-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

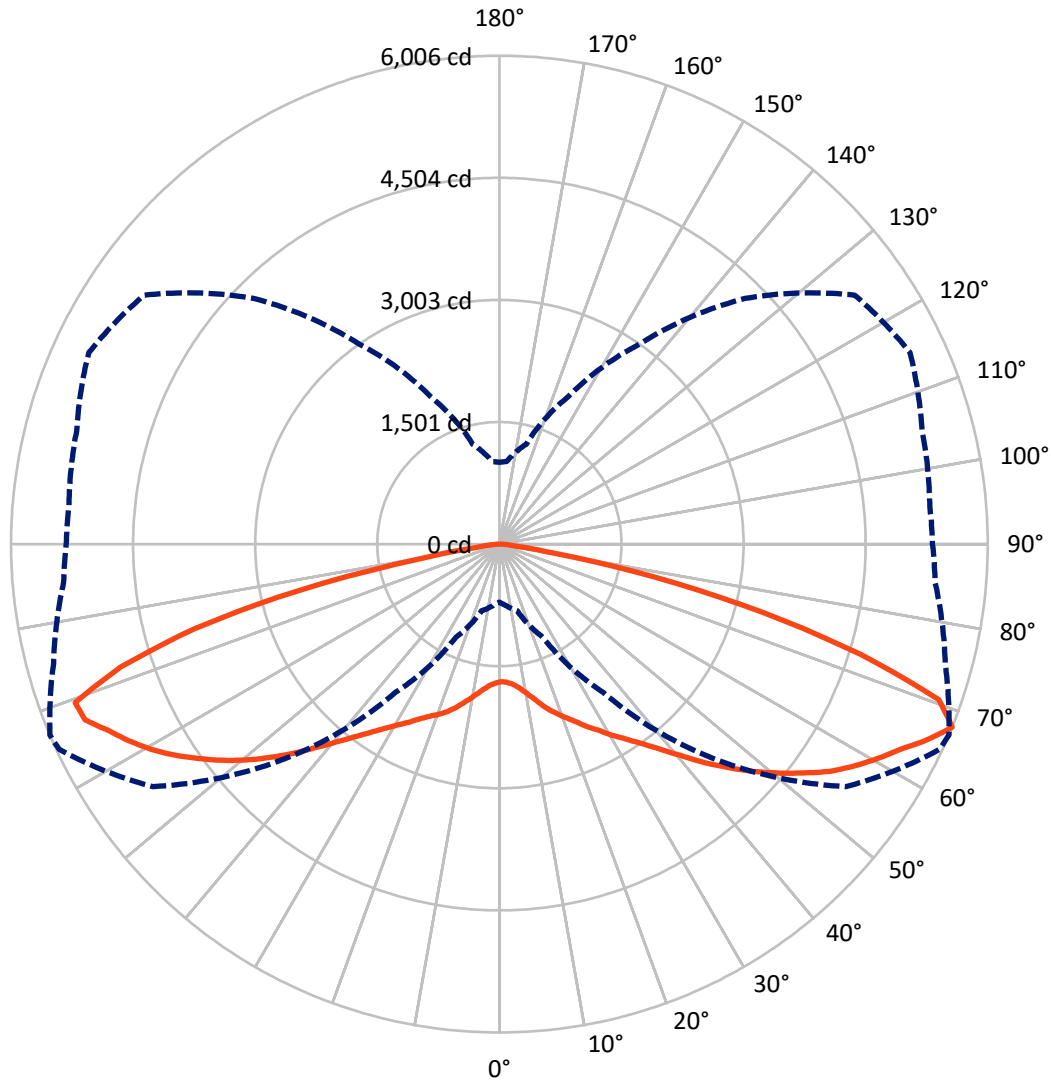
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P633793
CATALOG NUMBER: GWS-SA2F-740-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P633793

CATALOG NUMBER: GWS-SA2F-740-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8257.8	0.0	8257.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	8442.2	0.0	8442.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	16700.0	0.0	16700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.0
10°-20°	560.5	3.4
20°-30°	1099.7	6.6
30°-40°	1873.5	11.2
40°-50°	3008.4	18.0
50°-60°	4087.9	24.5
60°-70°	3910.3	23.4
70°-80°	1859.1	11.1
80°-90°	134.7	0.8
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°	16700.0	100.0
0°-180°	16700.0	100.0

Coefficient of Utilization



REPORT NUMBER: P633793

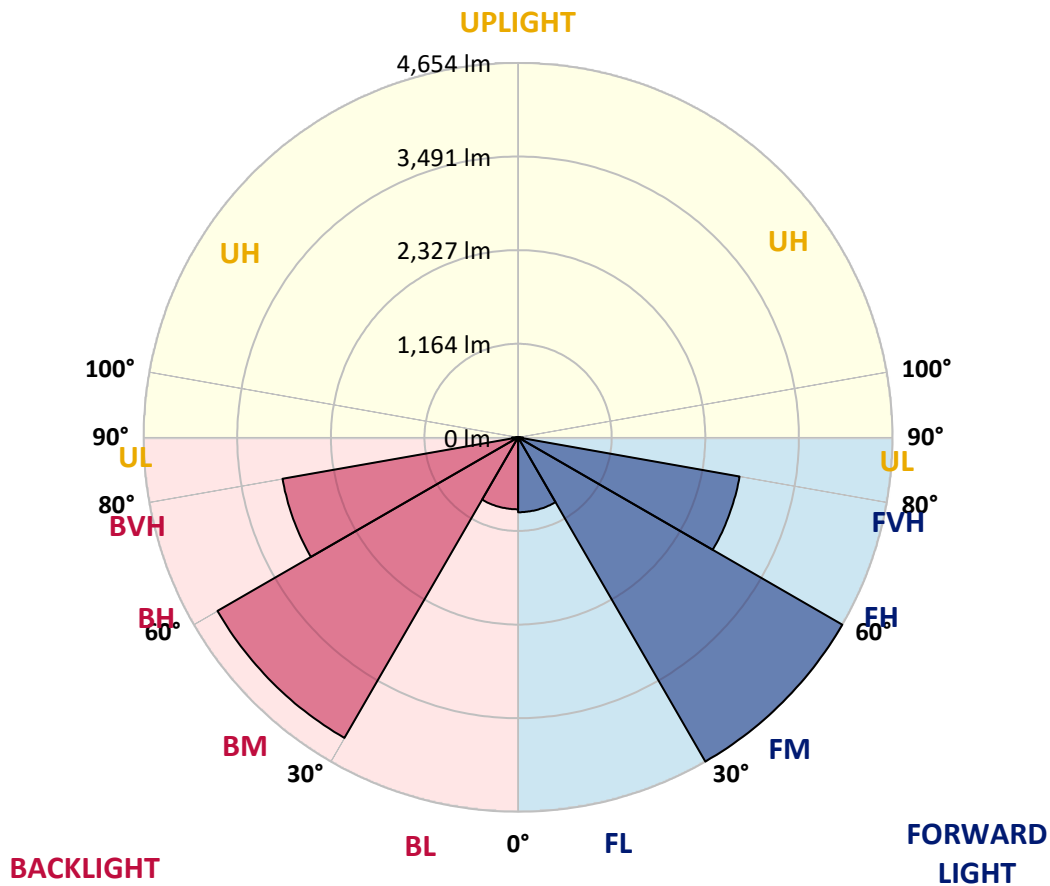
CATALOG NUMBER: GWS-SA2F-740-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.2	5.6			
FM (30°-60°)	4654.4	27.9			
FH (60°-80°)	2796.0	16.7			G2/5000
FVH (80°-90°)	60.6	0.4			G1/100
BL (0°-30°)	894.9	5.4	B2/1000		
BM (30°-60°)	4315.4	25.8	B3/5000		
BH (60°-80°)	2973.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	74.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P633793
 CATALOG NUMBER: GWS-SA2F-740-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1656.1	1658.4	1661.9	1668.9	1675.8	1686.3	1696.8	1695.6	1700.3	1703.8	1707.2
5°	1646.8	1649.1	1654.9	1664.2	1674.7	1692.1	1714.2	1723.5	1730.5	1743.3	1754.9
7.5°	1666.5	1671.2	1679.3	1692.1	1708.4	1730.5	1760.7	1777.0	1787.5	1810.8	1830.5
10°	1693.3	1699.1	1715.4	1739.8	1764.2	1798.0	1836.3	1860.8	1867.7	1898.0	1935.2
12.5°	1718.9	1725.9	1752.6	1796.8	1841.0	1886.3	1931.7	1961.9	1964.3	2005.0	2046.8
15°	1759.6	1765.4	1801.5	1858.4	1925.9	1988.7	2044.5	2065.4	2074.8	2103.8	2156.2
17.5°	1849.1	1856.1	1902.6	1964.3	2035.2	2101.5	2157.3	2174.8	2174.8	2199.2	2242.2
20°	1945.7	1952.6	2014.3	2093.4	2179.4	2246.9	2289.9	2273.6	2267.8	2274.8	2305.0
22.5°	2053.8	2066.6	2125.9	2217.8	2323.6	2406.2	2428.3	2379.5	2363.2	2346.9	2353.9
25°	2192.2	2207.3	2265.5	2363.2	2466.7	2553.9	2566.7	2491.1	2481.8	2424.8	2403.9
27.5°	2351.5	2363.2	2435.3	2531.8	2628.3	2701.6	2715.6	2622.5	2591.1	2512.0	2463.2
30°	2557.4	2567.9	2630.7	2726.0	2809.8	2860.9	2878.4	2750.4	2726.0	2605.1	2529.5
32.5°	2781.8	2786.5	2850.5	2942.3	3016.8	3065.6	3041.2	2892.3	2856.3	2720.2	2616.7
35°	3038.9	3038.9	3121.4	3195.9	3255.2	3269.1	3222.6	3052.8	3010.9	2863.2	2734.2
37.5°	3291.2	3298.2	3375.0	3463.3	3515.7	3513.4	3428.5	3242.4	3194.7	3034.2	2891.2
40°	3564.5	3579.6	3656.4	3755.3	3805.3	3798.3	3668.0	3461.0	3412.2	3222.6	3083.1
42.5°	3815.7	3840.1	3929.7	4030.9	4085.5	4080.9	3944.8	3712.2	3664.5	3450.6	3311.0
45°	4015.8	4041.3	4153.0	4293.7	4380.9	4372.8	4235.6	3972.7	3914.6	3690.1	3536.6
47.5°	4191.4	4218.1	4342.6	4491.4	4629.8	4643.8	4518.2	4235.6	4173.9	3947.1	3773.9
50°	4326.3	4339.1	4478.6	4641.4	4801.9	4879.9	4770.5	4499.6	4425.1	4200.7	4005.3
52.5°	4315.8	4333.3	4505.4	4726.3	4941.5	5069.4	4993.8	4748.4	4676.3	4432.1	4241.4
55°	4103.0	4120.4	4325.1	4647.3	5019.4	5207.8	5199.7	4985.7	4933.3	4668.2	4486.8
57.5°	3792.5	3830.8	4034.4	4382.1	4917.1	5318.3	5350.9	5202.0	5147.3	4899.6	4729.8
60°	3236.6	3287.7	3522.7	3973.9	4589.1	5281.1	5512.5	5384.6	5350.9	5114.8	4949.6
62.5°	2351.5	2388.8	2701.6	3293.5	4103.0	5015.9	5648.6	5573.0	5547.4	5307.8	5148.5
65°	1408.4	1493.3	1744.5	2329.4	3309.8	4515.8	5574.1	5819.5	5792.8	5506.7	5318.3
67.5°	712.9	751.3	850.1	1263.0	2225.9	3736.6	5200.8	5973.0	6005.6	5676.5	5378.8
70°	441.9	452.4	480.3	623.4	1111.8	2455.0	4253.0	5573.0	5732.3	5649.7	5221.8
72.5°	354.7	357.0	361.7	388.4	533.8	1147.9	2688.8	4364.7	4651.9	5276.4	4997.3
75°	294.2	295.4	296.6	304.7	332.6	468.7	1308.3	2999.3	3335.4	4484.4	4633.3
77.5°	236.1	230.3	234.9	238.4	245.4	261.7	451.2	1600.3	1941.0	2943.5	3583.1
80°	153.5	151.2	160.5	164.0	171.0	181.4	240.7	543.1	659.4	1071.1	1139.7
82.5°	82.6	77.9	97.7	94.2	97.7	105.8	141.9	198.9	223.3	323.3	273.3
85°	25.6	25.6	26.7	31.4	38.4	37.2	61.6	97.7	108.2	138.4	102.3
87.5°	4.7	4.7	4.7	4.7	4.7	5.8	12.8	19.8	26.7	47.7	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633793
 CATALOG NUMBER: GWS-SA2F-740-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1714.2	1703.8	1709.6	1713.1	1711.9	1709.6	1697.9	1695.6	1689.8	1680.5	1678.2
5°	1765.4	1753.8	1754.9	1751.4	1739.8	1724.7	1699.1	1686.3	1675.8	1664.2	1663.1
7.5°	1845.6	1832.9	1829.4	1813.1	1780.5	1745.6	1704.9	1681.7	1664.2	1649.1	1646.8
10°	1948.0	1935.2	1923.6	1885.2	1831.7	1785.2	1731.7	1697.9	1672.4	1653.8	1650.3
12.5°	2062.0	2051.5	2022.4	1966.6	1902.6	1848.0	1793.3	1751.4	1714.2	1686.3	1682.8
15°	2188.7	2165.5	2121.3	2049.2	1988.7	1944.5	1878.2	1821.2	1761.9	1724.7	1716.6
17.5°	2277.1	2257.3	2205.0	2135.2	2087.5	2049.2	1971.2	1889.8	1809.6	1754.9	1743.3
20°	2339.9	2319.0	2259.7	2208.5	2193.4	2160.8	2070.1	1975.9	1882.9	1815.4	1800.3
22.5°	2385.3	2363.2	2302.7	2277.1	2298.0	2292.2	2203.8	2096.8	1986.4	1906.1	1887.5
25°	2428.3	2407.4	2353.9	2363.2	2419.0	2436.4	2341.1	2216.6	2091.0	1996.8	1974.7
27.5°	2469.0	2442.3	2417.8	2469.0	2548.1	2580.6	2479.5	2338.7	2202.7	2106.2	2088.7
30°	2531.8	2500.4	2496.9	2571.3	2696.9	2724.9	2613.2	2472.5	2337.6	2239.9	2217.8
32.5°	2610.9	2581.8	2584.1	2695.8	2841.2	2864.4	2769.0	2637.6	2502.7	2405.0	2374.8
35°	2717.9	2681.8	2701.6	2838.8	2985.4	3028.4	2951.6	2842.3	2710.9	2610.9	2577.2
37.5°	2865.6	2813.2	2853.9	2998.2	3145.9	3209.8	3150.5	3069.1	2938.8	2837.7	2806.3
40°	3054.0	3010.9	3027.2	3186.6	3338.9	3415.7	3378.4	3298.2	3169.1	3063.3	3027.2
42.5°	3277.3	3234.2	3228.4	3398.2	3550.6	3666.9	3630.8	3557.5	3423.8	3302.9	3268.0
45°	3495.9	3456.4	3464.5	3637.8	3808.7	3935.5	3899.5	3813.4	3668.0	3528.5	3500.6
47.5°	3723.9	3691.3	3698.3	3882.0	4070.4	4197.2	4151.8	4047.2	3877.4	3728.5	3694.8
50°	3957.6	3920.4	3930.9	4123.9	4327.4	4447.2	4377.4	4222.8	4035.5	3890.2	3861.1
52.5°	4190.2	4146.0	4172.8	4355.3	4565.8	4661.2	4532.1	4344.9	4163.5	4019.2	3986.7
55°	4457.7	4411.2	4382.1	4577.5	4785.6	4825.2	4648.4	4429.8	4214.6	4050.6	4030.9
57.5°	4701.9	4662.4	4607.7	4803.1	4956.6	4927.5	4738.0	4406.5	4090.2	3879.7	3851.8
60°	4920.6	4886.8	4839.1	5005.5	5075.2	5010.1	4665.9	4130.9	3783.2	3563.4	3550.6
62.5°	5121.7	5085.7	5041.5	5183.4	5174.1	5022.9	4337.9	3707.6	3242.4	3006.3	2985.4
65°	5281.1	5248.5	5235.7	5347.4	5332.2	4772.9	3827.4	3014.4	2369.0	2102.7	2094.5
67.5°	5326.4	5313.6	5382.3	5571.8	5335.7	4270.5	3001.6	1999.2	1272.3	1019.9	1004.8
70°	5156.6	5155.5	5352.0	5623.0	4851.9	3262.1	1771.2	901.3	639.6	567.5	558.2
72.5°	4935.7	4932.2	5088.0	4850.8	3598.2	1785.2	745.5	482.6	400.1	380.3	380.3
75°	4572.8	4563.5	4681.0	3690.1	2023.6	672.2	395.4	331.4	314.0	310.5	310.5
77.5°	3727.3	3649.4	3464.5	2280.6	705.9	330.3	261.7	260.5	250.0	248.9	248.9
80°	1225.8	1225.8	1424.6	869.9	311.7	203.5	184.9	194.2	183.8	176.8	175.6
82.5°	200.0	275.6	391.9	248.9	168.6	126.8	114.0	120.9	126.8	101.2	101.2
85°	79.1	103.5	151.2	116.3	77.9	51.2	54.7	60.5	53.5	46.5	45.4
87.5°	30.2	37.2	53.5	27.9	16.3	9.3	5.8	5.8	4.7	4.7	4.7
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)