

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: P633738

Luminaire Tested: GWS-SA2F-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633738
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-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16471.1 lumens
Efficiency: N/A
Efficacy: 132.3 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

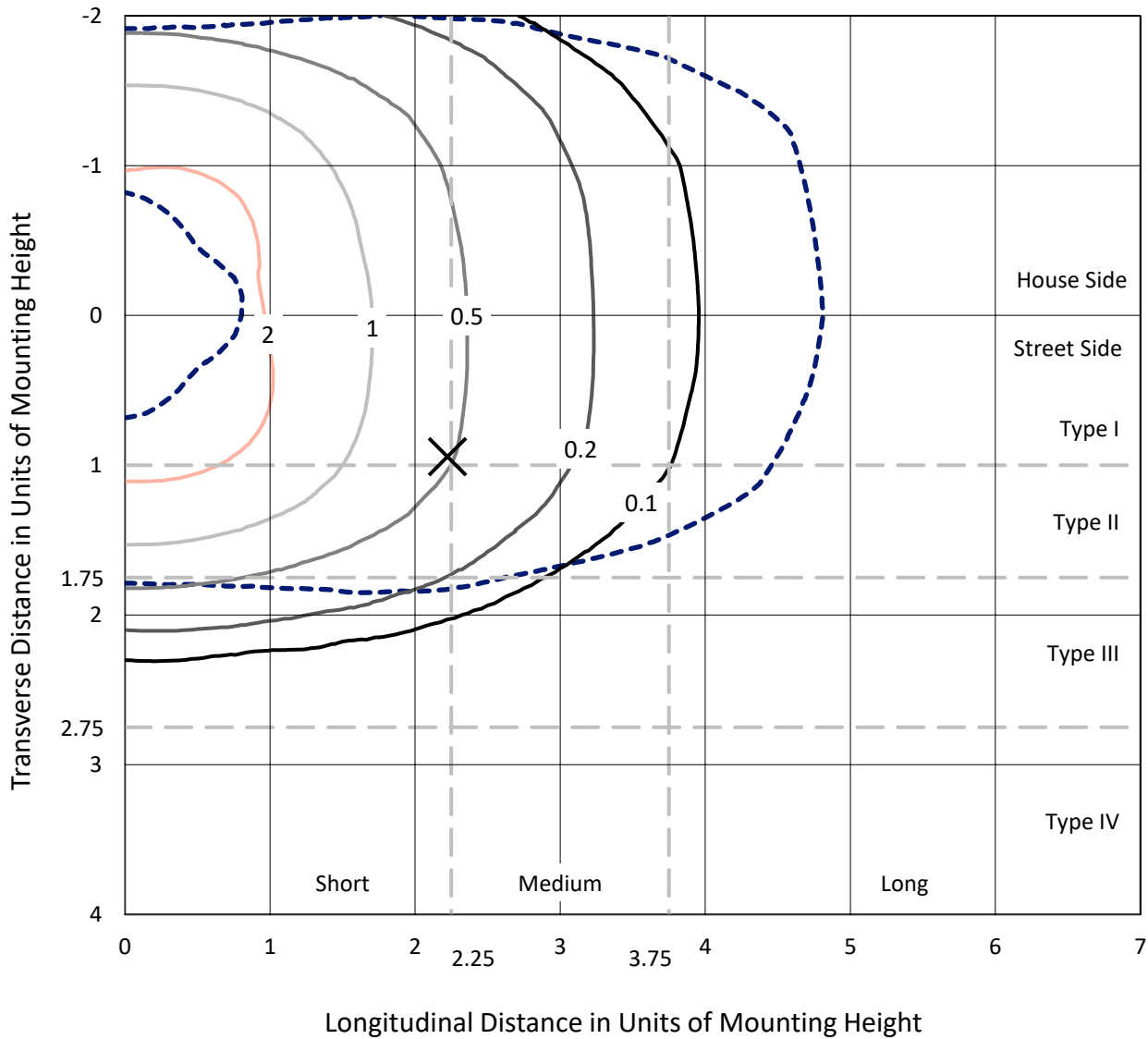


REPORT NUMBER: P633738

CATALOG NUMBER: GWS-SA2F-735-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

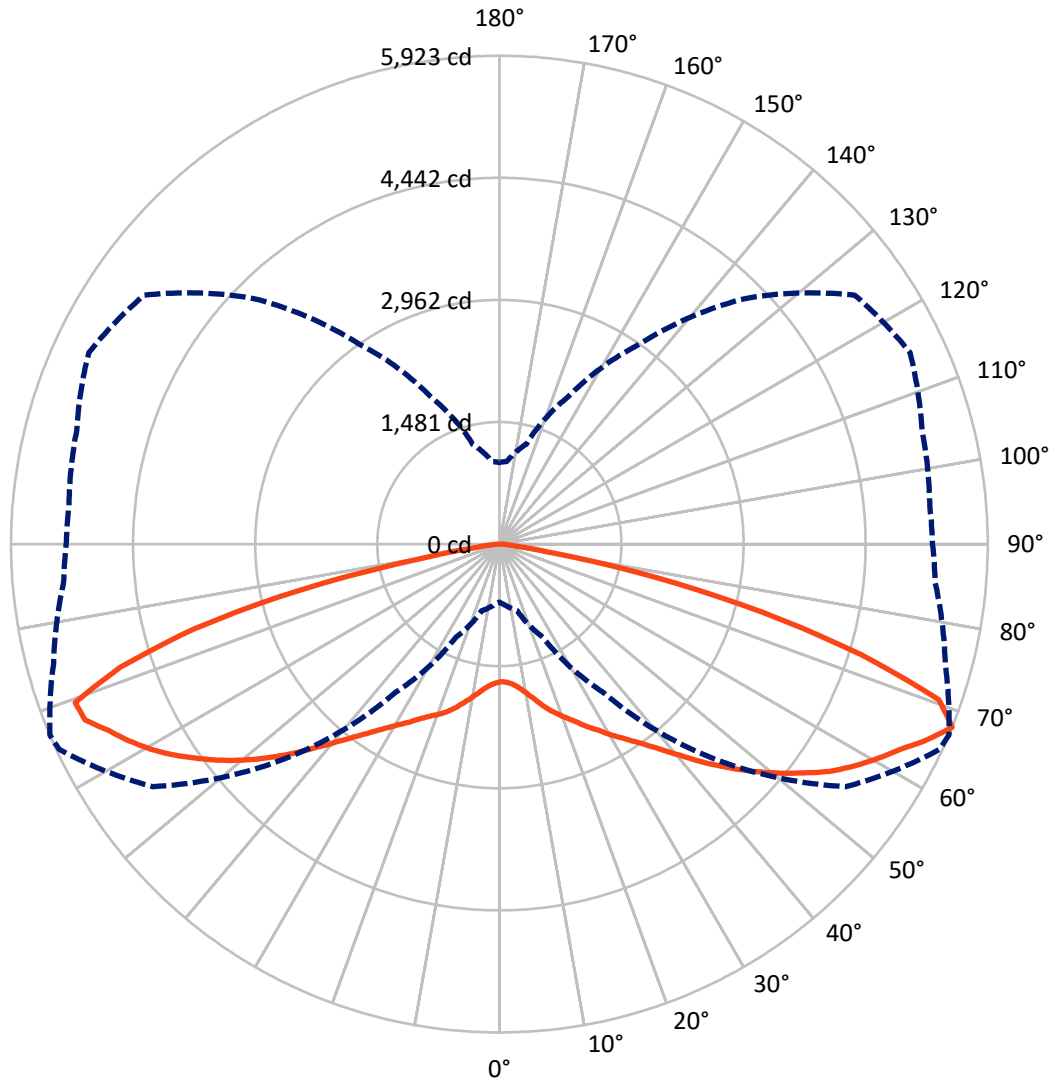
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P633738
CATALOG NUMBER: GWS-SA2F-735-U-RW-W

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8144.7	0.0	8144.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	8326.4	0.0	8326.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	16471.1	0.0	16471.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.0
10°-20°	552.8	3.4
20°-30°	1084.6	6.6
30°-40°	1847.8	11.2
40°-50°	2967.2	18.0
50°-60°	4031.8	24.5
60°-70°	3856.7	23.4
70°-80°	1833.6	11.1
80°-90°	132.9	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°	16471.1	100.0
0°-180°	16471.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633738

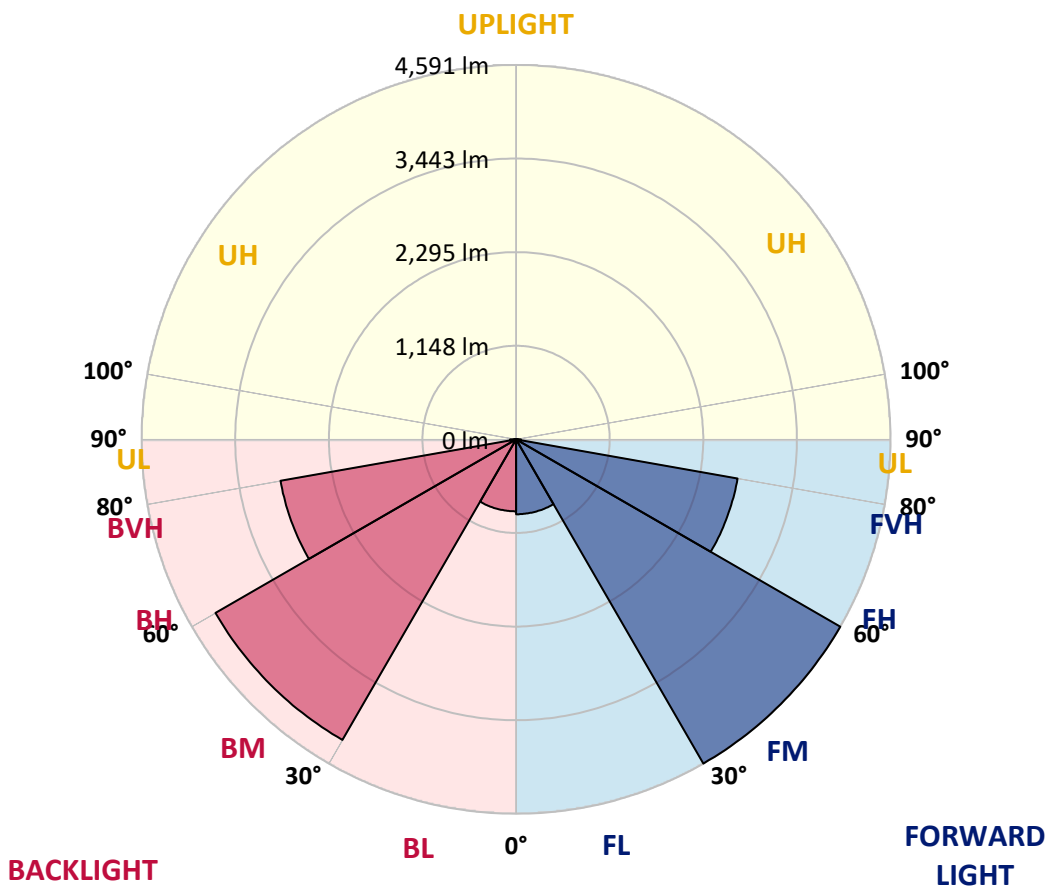
CATALOG NUMBER: GWS-SA2F-735-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.4	5.6			
FM (30°-60°)	4590.6	27.9			
FH (60°-80°)	2757.7	16.7			G2/5000
FVH (80°-90°)	59.7	0.4			G1/100
BL (0°-30°)	882.7	5.4	B2/1000		
BM (30°-60°)	4256.2	25.8	B3/5000		
BH (60°-80°)	2932.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	73.2	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: P633738
 CATALOG NUMBER: GWS-SA2F-735-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1633.4	1635.7	1639.1	1646.0	1652.9	1663.2	1673.5	1672.4	1677.0	1680.4	1683.8
5°	1624.2	1626.5	1632.2	1641.4	1651.7	1668.9	1690.7	1699.9	1706.8	1719.4	1730.9
7.5°	1643.7	1648.3	1656.3	1668.9	1685.0	1706.8	1736.6	1752.7	1763.0	1785.9	1805.4
10°	1670.1	1675.8	1691.9	1716.0	1740.1	1773.3	1811.2	1835.3	1842.1	1872.0	1908.7
12.5°	1695.3	1702.2	1728.6	1772.2	1815.8	1860.5	1905.2	1935.1	1937.3	1977.5	2018.8
15°	1735.5	1741.2	1776.8	1833.0	1899.5	1961.4	2016.5	2037.1	2046.3	2075.0	2126.6
17.5°	1823.8	1830.7	1876.6	1937.3	2007.3	2072.7	2127.8	2145.0	2145.0	2169.0	2211.5
20°	1919.0	1925.9	1986.7	2064.7	2149.5	2216.1	2258.5	2242.5	2236.7	2243.6	2273.4
22.5°	2025.7	2038.3	2096.8	2187.4	2291.8	2373.2	2395.0	2346.8	2330.8	2314.7	2321.6
25°	2162.2	2177.1	2234.4	2330.8	2432.9	2518.9	2531.5	2457.0	2447.8	2391.6	2370.9
27.5°	2319.3	2330.8	2401.9	2497.1	2592.3	2664.6	2678.3	2586.6	2555.6	2477.6	2429.4
30°	2522.3	2532.7	2594.6	2688.7	2771.2	2821.7	2838.9	2712.7	2688.7	2569.4	2494.8
32.5°	2743.7	2748.3	2811.4	2902.0	2975.4	3023.6	2999.5	2852.7	2817.1	2682.9	2580.8
35°	2997.2	2997.2	3078.6	3152.1	3210.6	3224.3	3178.4	3011.0	2969.7	2824.0	2696.7
37.5°	3246.1	3253.0	3328.7	3415.9	3467.5	3465.2	3381.5	3197.9	3150.9	2992.6	2851.5
40°	3515.7	3530.6	3606.3	3703.8	3753.1	3746.2	3617.8	3413.6	3365.4	3178.4	3040.8
42.5°	3763.4	3787.5	3875.8	3975.6	4029.5	4025.0	3890.7	3661.3	3614.3	3403.3	3265.6
45°	3960.7	3986.0	4096.1	4234.9	4320.9	4312.9	4177.5	3918.3	3860.9	3639.5	3488.1
47.5°	4133.9	4160.3	4283.0	4429.9	4566.4	4580.1	4456.2	4177.5	4116.7	3893.0	3722.1
50°	4267.0	4279.6	4417.2	4577.8	4736.1	4813.0	4705.1	4437.9	4364.5	4143.1	3950.4
52.5°	4256.7	4273.9	4443.6	4661.6	4873.8	4999.9	4925.4	4683.3	4612.2	4371.4	4183.2
55°	4046.7	4063.9	4265.8	4583.6	4950.6	5136.4	5128.4	4917.3	4865.7	4604.2	4425.3
57.5°	3740.5	3778.3	3979.1	4322.0	4849.7	5245.4	5277.5	5130.7	5076.8	4832.5	4665.0
60°	3192.2	3242.7	3474.4	3919.4	4526.2	5208.7	5437.0	5310.8	5277.5	5044.7	4881.8
62.5°	2319.3	2356.0	2664.6	3248.4	4046.7	4947.2	5571.2	5496.6	5471.4	5235.1	5077.9
65°	1389.1	1472.8	1720.6	2297.5	3264.5	4453.9	5497.7	5739.8	5713.4	5431.2	5245.4
67.5°	703.1	741.0	838.5	1245.7	2195.4	3685.4	5129.5	5891.2	5923.3	5598.7	5305.0
70°	435.9	446.2	473.7	614.8	1096.6	2421.4	4194.7	5496.6	5653.7	5572.3	5150.2
72.5°	349.8	352.1	356.7	383.1	526.5	1132.1	2651.9	4304.8	4588.1	5204.1	4928.8
75°	290.2	291.3	292.5	300.5	328.1	462.3	1290.4	2958.2	3289.7	4423.0	4569.8
77.5°	232.8	227.1	231.7	235.1	242.0	258.1	445.1	1578.3	1914.4	2903.1	3534.0
80°	151.4	149.1	158.3	161.7	168.6	178.9	237.4	535.7	650.4	1056.4	1124.1
82.5°	81.4	76.9	96.4	92.9	96.4	104.4	139.9	196.1	220.2	318.9	269.6
85°	25.2	25.2	26.4	31.0	37.9	36.7	60.8	96.4	106.7	136.5	100.9
87.5°	4.6	4.6	4.6	4.6	4.6	5.7	12.6	19.5	26.4	47.0	35.6
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: P633738
 CATALOG NUMBER: GWS-SA2F-735-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1690.7	1680.4	1686.1	1689.6	1688.4	1686.1	1674.7	1672.4	1666.6	1657.5	1655.2
5°	1741.2	1729.7	1730.9	1727.4	1716.0	1701.1	1675.8	1663.2	1652.9	1641.4	1640.3
7.5°	1820.3	1807.7	1804.3	1788.2	1756.1	1721.7	1681.6	1658.6	1641.4	1626.5	1624.2
10°	1921.3	1908.7	1897.2	1859.3	1806.6	1760.7	1707.9	1674.7	1649.4	1631.1	1627.6
12.5°	2033.7	2023.4	1994.7	1939.6	1876.6	1822.6	1768.7	1727.4	1690.7	1663.2	1659.8
15°	2158.7	2135.8	2092.2	2021.1	1961.4	1917.8	1852.5	1796.3	1737.8	1701.1	1693.0
17.5°	2245.9	2226.4	2174.8	2106.0	2058.9	2021.1	1944.2	1863.9	1784.8	1730.9	1719.4
20°	2307.8	2287.2	2228.7	2178.2	2163.3	2131.2	2041.7	1948.8	1857.1	1790.5	1775.6
22.5°	2352.6	2330.8	2271.1	2245.9	2266.5	2260.8	2173.6	2068.1	1959.1	1880.0	1861.6
25°	2395.0	2374.4	2321.6	2330.8	2385.8	2403.0	2309.0	2186.3	2062.4	1969.5	1947.7
27.5°	2435.2	2408.8	2384.7	2435.2	2513.2	2545.3	2445.5	2306.7	2172.5	2077.3	2060.1
30°	2497.1	2466.1	2462.7	2536.1	2660.0	2687.5	2577.4	2438.6	2305.5	2209.2	2187.4
32.5°	2575.1	2546.4	2548.7	2658.8	2802.2	2825.2	2731.1	2601.5	2468.4	2372.1	2342.2
35°	2680.6	2645.1	2664.6	2799.9	2944.4	2986.9	2911.2	2803.4	2673.7	2575.1	2541.8
37.5°	2826.3	2774.7	2814.8	2957.1	3102.7	3165.8	3107.3	3027.0	2898.6	2798.8	2767.8
40°	3012.1	2969.7	2985.7	3142.9	3293.1	3368.8	3332.1	3253.0	3125.7	3021.3	2985.7
42.5°	3232.3	3189.9	3184.2	3351.6	3501.9	3616.6	3581.0	3508.8	3376.9	3257.6	3223.2
45°	3448.0	3409.0	3417.0	3587.9	3756.5	3881.6	3846.0	3761.1	3617.8	3480.1	3452.6
47.5°	3672.8	3640.7	3647.6	3828.8	4014.6	4139.7	4094.9	3991.7	3824.2	3677.4	3644.1
50°	3903.4	3866.7	3877.0	4067.4	4268.1	4386.3	4317.4	4164.9	3980.2	3836.8	3808.2
52.5°	4132.8	4089.2	4115.6	4295.7	4503.3	4597.3	4470.0	4285.3	4106.4	3964.2	3932.0
55°	4396.6	4350.7	4322.0	4514.7	4720.1	4759.1	4584.7	4369.1	4156.9	3995.1	3975.6
57.5°	4637.5	4598.5	4544.6	4737.3	4888.7	4860.0	4673.0	4346.1	4034.1	3826.5	3799.0
60°	4853.1	4819.8	4772.8	4936.8	5005.7	4941.4	4601.9	4074.3	3731.3	3514.5	3501.9
62.5°	5051.5	5016.0	4972.4	5112.3	5103.2	4954.0	4278.4	3656.8	3197.9	2965.1	2944.4
65°	5208.7	5176.6	5164.0	5274.1	5259.2	4707.4	3774.9	2973.1	2336.5	2073.8	2065.8
67.5°	5253.4	5240.8	5308.5	5495.5	5262.6	4211.9	2960.5	1971.8	1254.9	1006.0	991.0
70°	5086.0	5084.8	5278.7	5545.9	4785.4	3217.4	1746.9	889.0	630.9	559.8	550.6
72.5°	4868.0	4864.6	5018.3	4784.3	3548.9	1760.7	735.3	476.0	394.6	375.1	375.1
75°	4510.1	4501.0	4616.8	3639.5	1995.8	663.0	390.0	326.9	309.7	306.3	306.3
77.5°	3676.3	3599.4	3417.0	2249.3	696.3	325.8	258.1	256.9	246.6	245.5	245.5
80°	1209.0	1209.0	1405.1	858.0	307.4	200.7	182.4	191.6	181.2	174.3	173.2
82.5°	197.3	271.8	386.6	245.5	166.3	125.0	112.4	119.3	125.0	99.8	99.8
85°	78.0	102.1	149.1	114.7	76.9	50.5	53.9	59.6	52.8	45.9	44.7
87.5°	29.8	36.7	52.8	27.5	16.1	9.2	5.7	5.7	4.6	4.6	4.6
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)