

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: P637478

Luminaire Tested: GWS-SA4C-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637478
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-SA4C-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15874.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.5
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

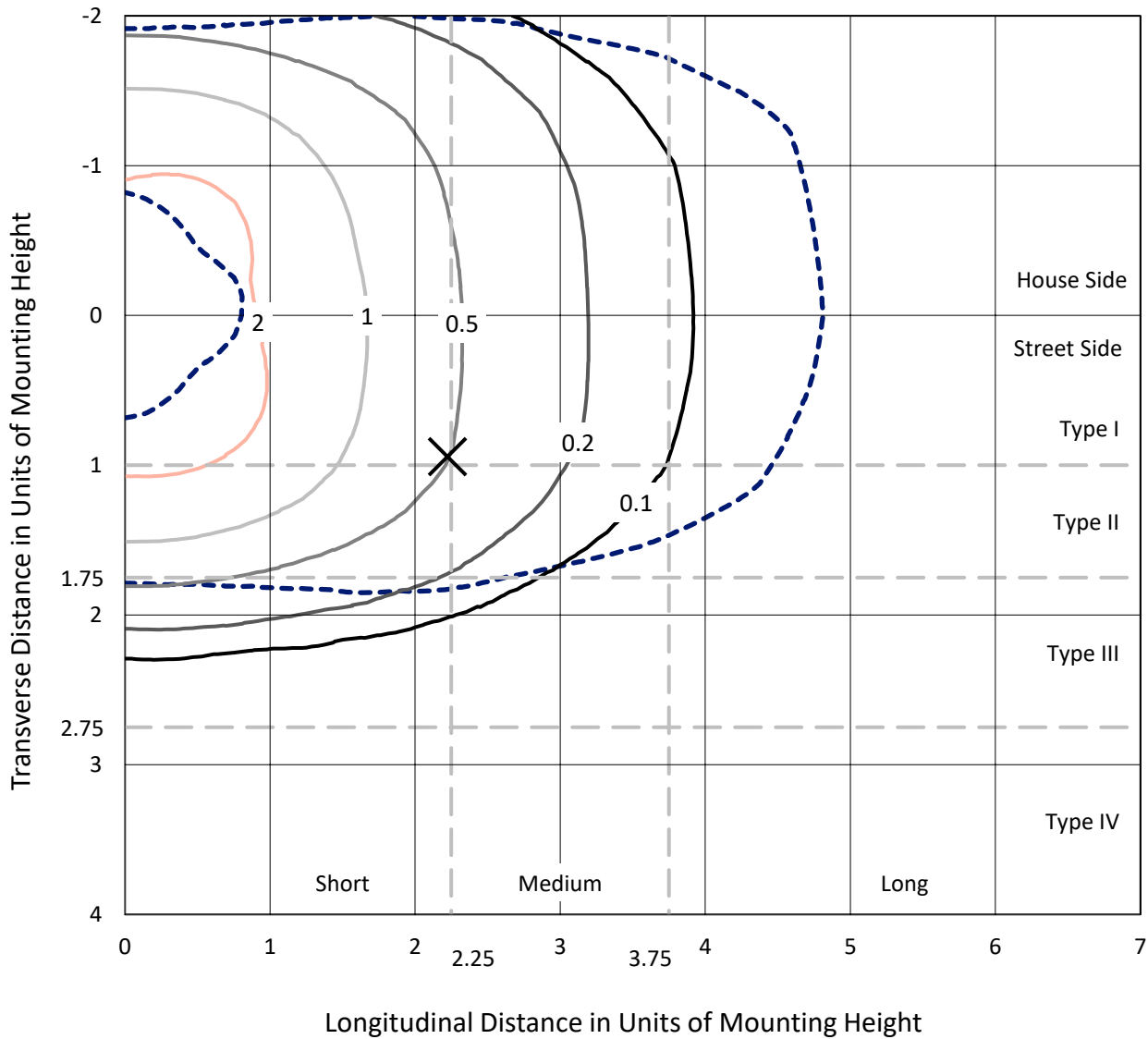


REPORT NUMBER: P637478

CATALOG NUMBER: GWS-SA4C-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

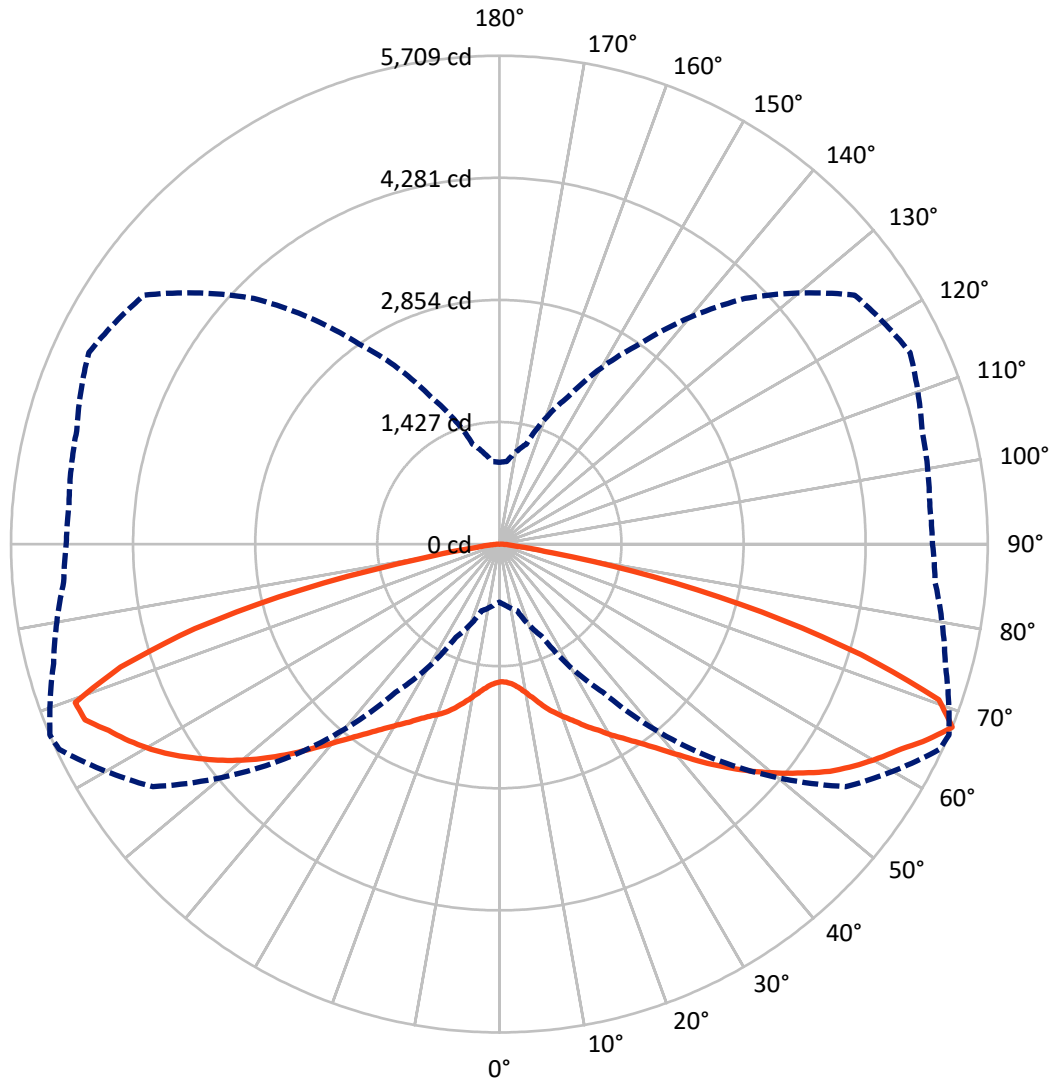
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P637478
CATALOG NUMBER: GWS-SA4C-830-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637478

CATALOG NUMBER: GWS-SA4C-830-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7849.5	0.0	7849.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	8024.7	0.0	8024.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	15874.2	0.0	15874.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	1.0
10°-20°	532.8	3.4
20°-30°	1045.3	6.6
30°-40°	1780.8	11.2
40°-50°	2859.7	18.0
50°-60°	3885.7	24.5
60°-70°	3716.9	23.4
70°-80°	1767.2	11.1
80°-90°	128.1	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°	15874.2	100.0
0°-180°	15874.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637478

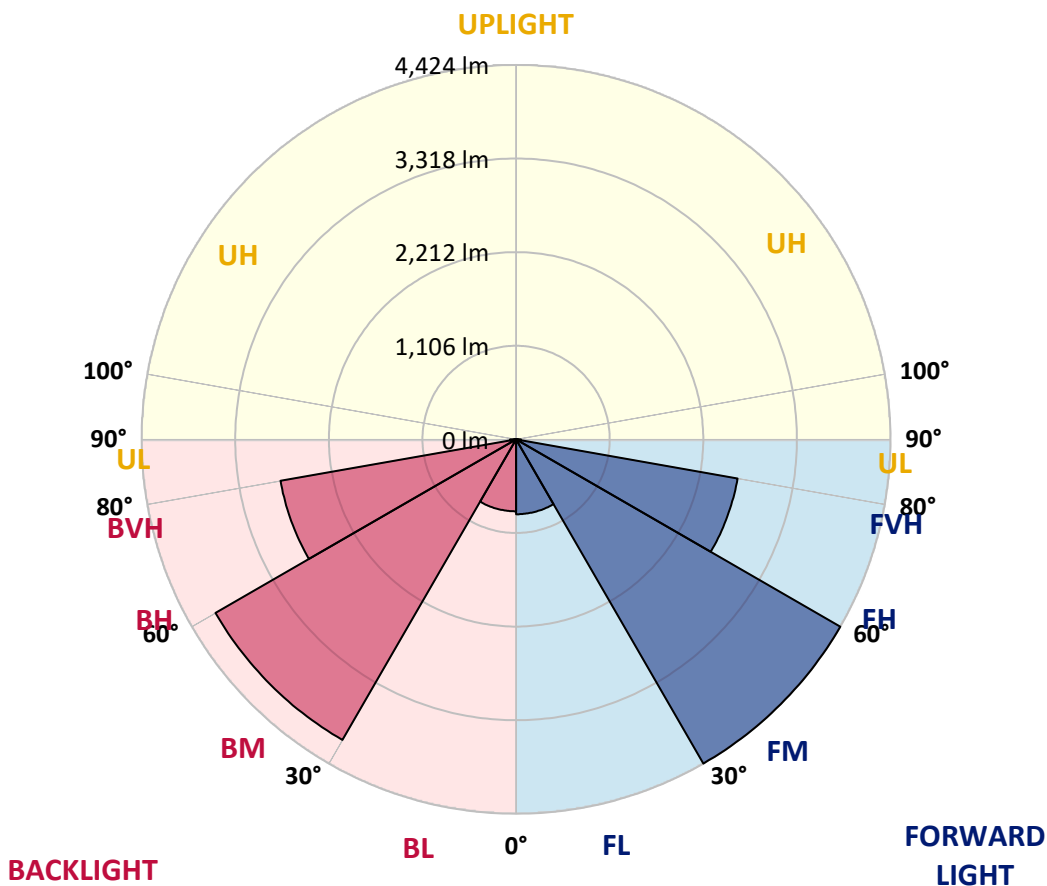
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.1	5.6			
FM (30°-60°)	4424.3	27.9			
FH (60°-80°)	2657.8	16.7			G2/5000
FVH (80°-90°)	57.6	0.4			G1/100
BL (0°-30°)	850.7	5.4	B2/1000		
BM (30°-60°)	4102.0	25.8	B3/5000		
BH (60°-80°)	2826.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	70.5	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: P637478

CATALOG NUMBER: GWS-SA4C-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1574.2	1576.4	1579.7	1586.3	1593.0	1602.9	1612.9	1611.8	1616.2	1619.5	1622.8
5°	1565.3	1567.6	1573.1	1581.9	1591.9	1608.5	1629.5	1638.3	1644.9	1657.1	1668.2
7.5°	1584.1	1588.6	1596.3	1608.5	1623.9	1644.9	1673.7	1689.2	1699.1	1721.2	1740.0
10°	1609.6	1615.1	1630.6	1653.8	1677.0	1709.1	1745.5	1768.7	1775.4	1804.1	1839.5
12.5°	1633.9	1640.5	1665.9	1707.9	1750.0	1793.1	1836.2	1864.9	1867.1	1905.8	1945.6
15°	1672.6	1678.1	1712.4	1766.5	1830.7	1890.4	1943.4	1963.3	1972.2	1999.8	2049.5
17.5°	1757.7	1764.3	1808.5	1867.1	1934.6	1997.6	2050.6	2067.2	2067.2	2090.4	2131.3
20°	1849.4	1856.1	1914.7	1989.8	2071.6	2135.8	2176.7	2161.2	2155.7	2162.3	2191.0
22.5°	1952.3	1964.4	2020.8	2108.1	2208.7	2287.2	2308.2	2261.8	2246.3	2230.8	2237.5
25°	2083.8	2098.2	2153.5	2246.3	2344.7	2427.6	2439.8	2367.9	2359.1	2304.9	2285.0
27.5°	2235.3	2246.3	2314.9	2406.6	2498.4	2568.0	2581.3	2492.8	2463.0	2387.8	2341.4
30°	2430.9	2440.9	2500.6	2591.2	2670.8	2719.5	2736.0	2614.4	2591.2	2476.2	2404.4
32.5°	2644.3	2648.7	2709.5	2796.8	2867.6	2914.0	2890.8	2749.3	2715.0	2585.7	2487.3
35°	2888.6	2888.6	2967.1	3037.8	3094.2	3107.5	3063.3	2901.9	2862.1	2721.7	2599.0
37.5°	3128.5	3135.1	3208.1	3292.1	3341.8	3339.6	3258.9	3082.0	3036.7	2884.2	2748.2
40°	3388.3	3402.6	3475.6	3569.6	3617.1	3610.5	3486.6	3289.9	3243.4	3063.3	2930.6
42.5°	3627.0	3650.3	3735.4	3831.6	3883.5	3879.1	3749.7	3528.7	3483.3	3279.9	3147.3
45°	3817.2	3841.5	3947.6	4081.4	4164.3	4156.6	4026.1	3776.3	3721.0	3507.7	3361.7
47.5°	3984.1	4009.5	4127.8	4269.3	4400.9	4414.1	4294.7	4026.1	3967.5	3752.0	3587.2
50°	4112.3	4124.5	4257.2	4411.9	4564.5	4638.5	4534.6	4277.1	4206.3	3993.0	3807.2
52.5°	4102.4	4119.0	4282.6	4492.6	4697.1	4818.7	4746.9	4513.6	4445.1	4212.9	4031.6
55°	3900.1	3916.7	4111.2	4417.5	4771.2	4950.3	4942.5	4739.1	4689.4	4437.4	4264.9
57.5°	3604.9	3641.4	3834.9	4165.4	4673.9	5055.3	5086.3	4944.8	4892.8	4657.3	4495.9
60°	3076.5	3125.2	3348.5	3777.4	4362.2	5019.9	5239.9	5118.3	5086.3	4861.9	4704.9
62.5°	2235.3	2270.6	2568.0	3130.7	3900.1	4767.9	5369.3	5297.4	5273.1	5045.4	4893.9
65°	1338.7	1419.4	1658.2	2214.3	3146.2	4292.5	5298.5	5531.8	5506.3	5234.4	5055.3
67.5°	677.7	714.1	808.1	1200.5	2115.9	3551.9	4943.7	5677.7	5708.6	5395.8	5112.8
70°	420.1	430.0	456.6	592.5	1056.8	2333.6	4042.7	5297.4	5448.9	5370.4	4963.6
72.5°	337.2	339.4	343.8	369.2	507.4	1091.1	2555.8	4148.8	4421.9	5015.5	4750.2
75°	279.7	280.8	281.9	289.6	316.2	445.5	1243.7	2851.0	3170.5	4262.7	4404.2
77.5°	224.4	218.9	223.3	226.6	233.3	248.7	428.9	1521.1	1845.0	2797.9	3405.9
80°	145.9	143.7	152.6	155.9	162.5	172.5	228.8	516.3	626.8	1018.1	1083.4
82.5°	78.5	74.1	92.9	89.5	92.9	100.6	134.9	189.0	212.2	307.3	259.8
85°	24.3	24.3	25.4	29.8	36.5	35.4	58.6	92.9	102.8	131.6	97.3
87.5°	4.4	4.4	4.4	4.4	4.4	5.5	12.2	18.8	25.4	45.3	34.3
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: P637478
 CATALOG NUMBER: GWS-SA4C-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1629.5	1619.5	1625.0	1628.4	1627.2	1625.0	1614.0	1611.8	1606.2	1597.4	1595.2
5°	1678.1	1667.0	1668.2	1664.8	1653.8	1639.4	1615.1	1602.9	1593.0	1581.9	1580.8
7.5°	1754.4	1742.2	1738.9	1723.4	1692.5	1659.3	1620.6	1598.5	1581.9	1567.6	1565.3
10°	1851.7	1839.5	1828.4	1792.0	1741.1	1696.9	1646.0	1614.0	1589.7	1572.0	1568.7
12.5°	1960.0	1950.0	1922.4	1869.3	1808.5	1756.6	1704.6	1664.8	1629.5	1602.9	1599.6
15°	2080.5	2058.4	2016.4	1947.8	1890.4	1848.3	1785.3	1731.2	1674.8	1639.4	1631.7
17.5°	2164.5	2145.7	2096.0	2029.6	1984.3	1947.8	1873.8	1796.4	1720.1	1668.2	1657.1
20°	2224.2	2204.3	2147.9	2099.3	2084.9	2054.0	1967.7	1878.2	1789.8	1725.6	1711.3
22.5°	2267.3	2246.3	2188.8	2164.5	2184.4	2178.9	2094.9	1993.2	1888.1	1811.9	1794.2
25°	2308.2	2288.3	2237.5	2246.3	2299.4	2316.0	2225.3	2107.0	1987.6	1898.1	1877.1
27.5°	2346.9	2321.5	2298.3	2346.9	2422.1	2453.0	2356.9	2223.1	2093.8	2002.0	1985.4
30°	2406.6	2376.8	2373.4	2444.2	2563.6	2590.1	2484.0	2350.2	2222.0	2129.1	2108.1
32.5°	2481.8	2454.1	2456.4	2562.5	2700.7	2722.8	2632.1	2507.2	2379.0	2286.1	2257.4
35°	2583.5	2549.2	2568.0	2698.4	2837.7	2878.6	2805.7	2701.8	2576.8	2481.8	2449.7
37.5°	2723.9	2674.1	2712.8	2849.9	2990.3	3051.1	2994.7	2917.3	2793.5	2697.3	2667.5
40°	2903.0	2862.1	2877.5	3029.0	3173.8	3246.8	3211.4	3135.1	3012.4	2911.8	2877.5
42.5°	3115.2	3074.3	3068.8	3230.2	3375.0	3485.5	3451.3	3381.6	3254.5	3139.5	3106.4
45°	3323.0	3285.5	3293.2	3457.9	3620.4	3740.9	3706.6	3624.8	3486.6	3354.0	3327.5
47.5°	3539.7	3508.8	3515.4	3690.1	3869.1	3989.6	3946.5	3847.0	3685.6	3544.1	3512.1
50°	3761.9	3726.5	3736.5	3920.0	4113.4	4227.3	4161.0	4014.0	3836.0	3697.8	3670.2
52.5°	3983.0	3941.0	3966.4	4140.0	4340.1	4430.7	4308.0	4130.0	3957.6	3820.5	3789.5
55°	4237.3	4193.0	4165.4	4351.1	4549.0	4586.6	4418.6	4210.7	4006.2	3850.3	3831.6
57.5°	4469.4	4431.8	4379.9	4565.6	4711.5	4683.9	4503.7	4188.6	3887.9	3687.8	3661.3
60°	4677.2	4645.2	4599.9	4757.9	4824.3	4762.4	4435.1	3926.6	3596.1	3387.2	3375.0
62.5°	4868.5	4834.2	4792.2	4927.1	4918.2	4774.5	4123.4	3524.2	3082.0	2857.6	2837.7
65°	5019.9	4989.0	4976.8	5082.9	5068.6	4536.8	3638.1	2865.4	2251.8	1998.7	1990.9
67.5°	5063.0	5050.9	5116.1	5296.3	5071.9	4059.3	2853.2	1900.3	1209.4	969.5	955.1
70°	4901.6	4900.5	5087.4	5344.9	4612.0	3100.8	1683.6	856.7	608.0	539.5	530.6
72.5°	4691.6	4688.3	4836.4	4610.9	3420.3	1696.9	708.6	458.8	380.3	361.5	361.5
75°	4346.7	4337.9	4449.5	3507.7	1923.5	639.0	375.9	315.1	298.5	295.2	295.2
77.5°	3543.0	3469.0	3293.2	2167.8	671.0	314.0	248.7	247.6	237.7	236.6	236.6
80°	1165.2	1165.2	1354.2	826.9	296.3	193.5	175.8	184.6	174.7	168.0	166.9
82.5°	190.1	262.0	372.5	236.6	160.3	120.5	108.3	115.0	120.5	96.2	96.2
85°	75.2	98.4	143.7	110.5	74.1	48.6	52.0	57.5	50.9	44.2	43.1
87.5°	28.7	35.4	50.9	26.5	15.5	8.8	5.5	5.5	4.4	4.4	4.4
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)