

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: P636763

Luminaire Tested: GWS-SA4B-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636763  
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-SA4B-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

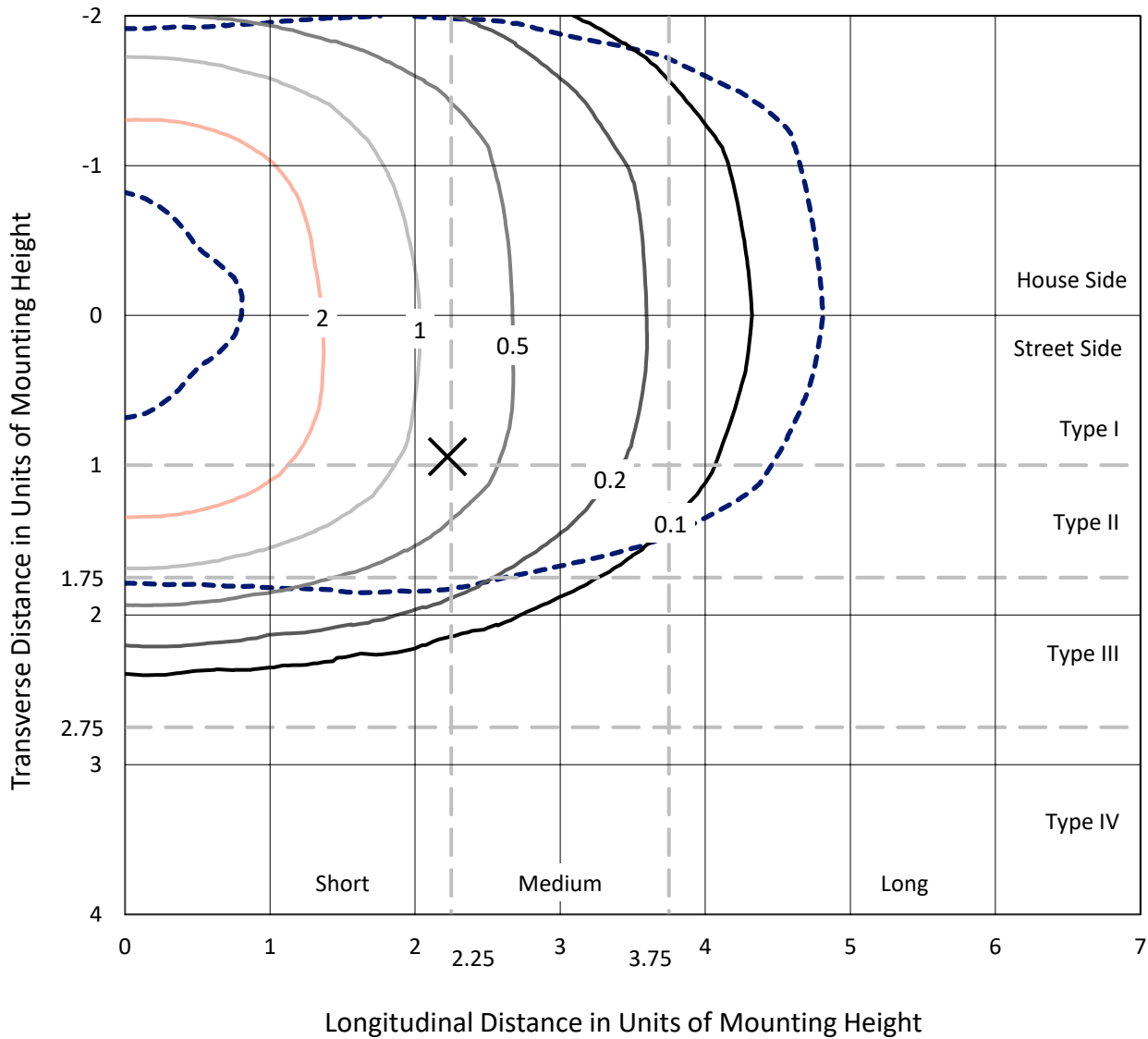
Lumens per Lamp: N/A  
Luminaire Lumens: 14900.2 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

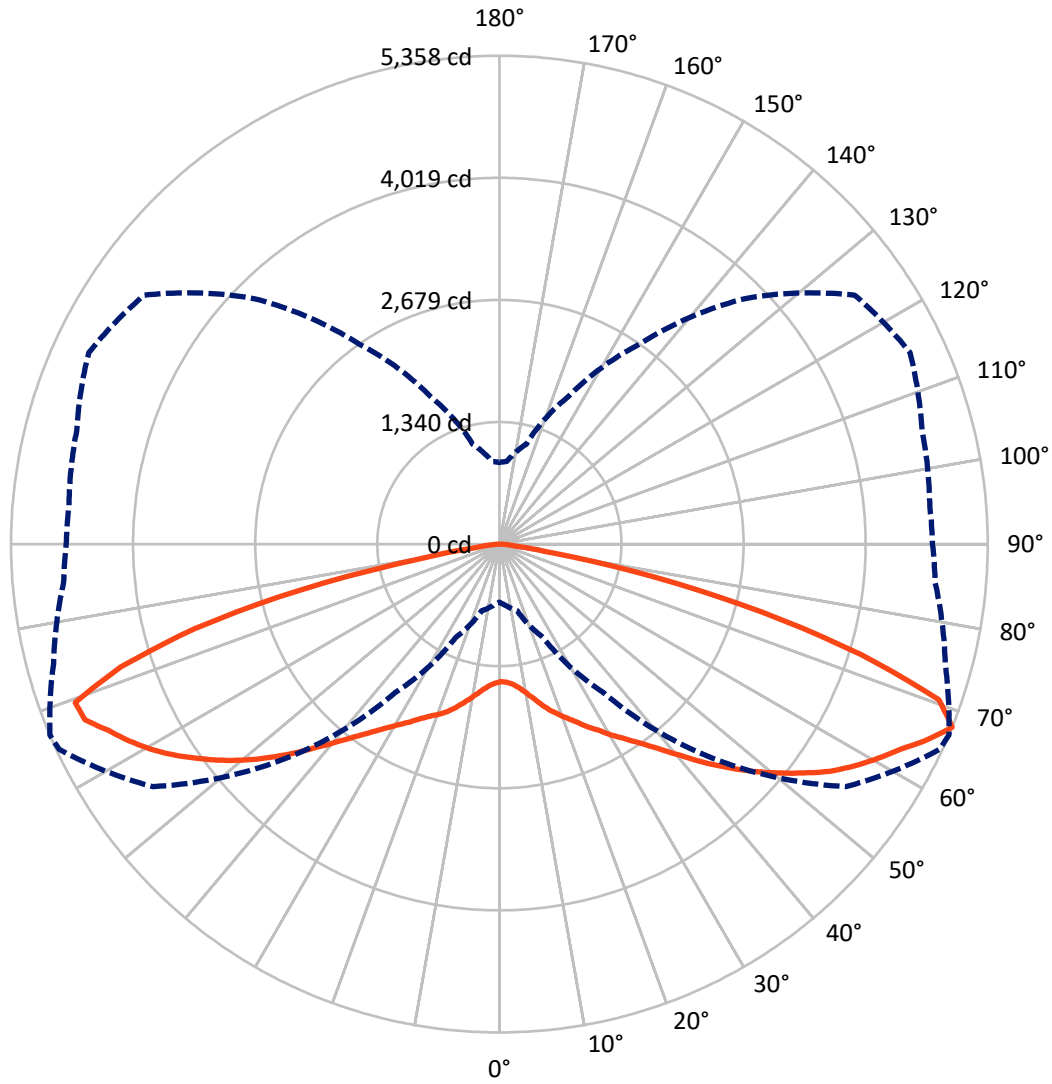
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### 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
<b>House Side</b>	Lumens	7367.9	0.0	7367.9
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	7532.3	0.0	7532.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	14900.2	0.0	14900.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	1.0
10°-20°	500.1	3.4
20°-30°	981.2	6.6
30°-40°	1671.6	11.2
40°-50°	2684.2	18.0
50°-60°	3647.3	24.5
60°-70°	3488.9	23.4
70°-80°	1658.7	11.1
80°-90°	120.2	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°	14900.2	100.0
0°-180°	14900.2	100.0

**Coefficient of Utilization**



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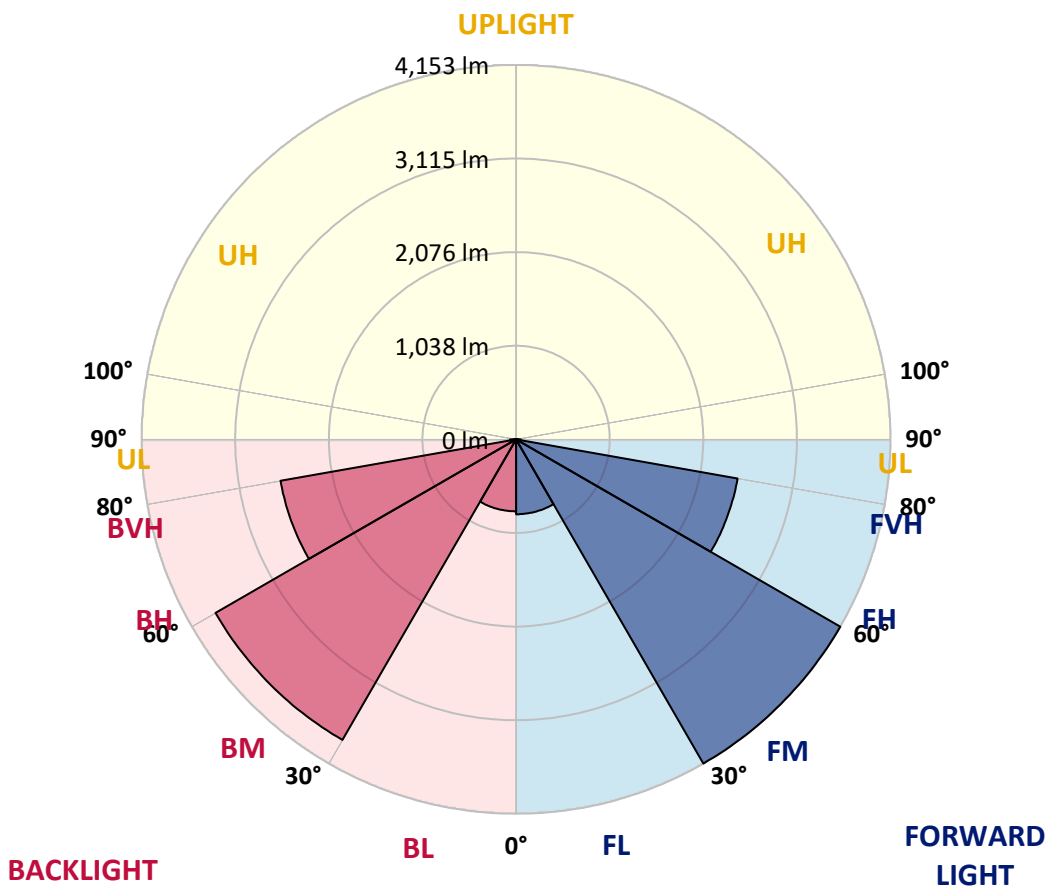
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.8	5.6			
FM (30°-60°)	4152.8	27.9			
FH (60°-80°)	2494.7	16.7			G2/5000
FVH (80°-90°)	54.0	0.4			G1/100
BL (0°-30°)	798.5	5.4	B2/1000		
BM (30°-60°)	3850.3	25.8	B3/5000		
BH (60°-80°)	2653.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	66.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1477.6	1479.7	1482.8	1489.0	1495.2	1504.6	1513.9	1512.9	1517.0	1520.1	1523.3
5°	1469.3	1471.4	1476.6	1484.9	1494.2	1509.8	1529.5	1537.8	1544.0	1555.4	1565.8
7.5°	1486.9	1491.1	1498.4	1509.8	1524.3	1544.0	1571.0	1585.5	1594.9	1615.6	1633.2
10°	1510.8	1516.0	1530.5	1552.3	1574.1	1604.2	1638.4	1660.2	1666.4	1693.4	1726.6
12.5°	1533.6	1539.9	1563.7	1603.2	1642.6	1683.1	1723.5	1750.5	1752.6	1788.9	1826.2
15°	1569.9	1575.1	1607.3	1658.1	1718.3	1774.4	1824.2	1842.8	1851.1	1877.1	1923.8
17.5°	1649.8	1656.1	1697.6	1752.6	1815.9	1875.0	1924.8	1940.4	1940.4	1962.2	2000.6
20°	1736.0	1742.2	1797.2	1867.8	1944.5	2004.7	2043.1	2028.6	2023.4	2029.6	2056.6
22.5°	1832.5	1843.9	1896.8	1978.8	2073.2	2146.9	2166.6	2123.0	2108.5	2094.0	2100.2
25°	1956.0	1969.4	2021.3	2108.5	2200.8	2278.7	2290.1	2222.6	2214.3	2163.5	2144.8
27.5°	2098.1	2108.5	2172.8	2258.9	2345.1	2410.4	2422.9	2339.9	2311.9	2241.3	2197.7
30°	2281.8	2291.1	2347.1	2432.2	2506.9	2552.6	2568.2	2454.0	2432.2	2324.3	2256.9
32.5°	2482.0	2486.2	2543.3	2625.2	2691.6	2735.2	2713.4	2580.6	2548.4	2427.0	2334.7
35°	2711.4	2711.4	2785.0	2851.4	2904.4	2916.8	2875.3	2723.8	2686.4	2554.7	2439.5
37.5°	2936.5	2942.7	3011.2	3090.1	3136.8	3134.7	3059.0	2892.9	2850.4	2707.2	2579.6
40°	3180.4	3193.9	3262.3	3350.5	3395.2	3388.9	3272.7	3088.0	3044.4	2875.3	2750.8
42.5°	3404.5	3426.3	3506.2	3596.5	3645.2	3641.1	3519.7	3312.1	3269.6	3078.7	2954.2
45°	3583.0	3605.8	3705.4	3831.0	3908.8	3901.5	3779.1	3544.6	3492.7	3292.4	3155.5
47.5°	3739.7	3763.5	3874.5	4007.4	4130.8	4143.3	4031.2	3779.1	3724.1	3521.7	3367.1
50°	3860.0	3871.4	3996.0	4141.2	4284.4	4353.9	4256.4	4014.6	3948.2	3748.0	3573.6
52.5°	3850.7	3866.2	4019.8	4217.0	4408.9	4523.1	4455.6	4236.7	4172.3	3954.4	3784.3
55°	3660.8	3676.4	3859.0	4146.4	4478.5	4646.6	4639.3	4448.4	4401.7	4165.1	4003.2
57.5°	3383.7	3418.0	3599.6	3909.8	4387.1	4745.1	4774.2	4641.4	4592.6	4371.6	4220.1
60°	2887.8	2933.4	3143.0	3545.6	4094.5	4711.9	4918.4	4804.3	4774.2	4563.5	4416.2
62.5°	2098.1	2131.3	2410.4	2938.6	3660.8	4475.3	5039.8	4972.4	4949.5	4735.8	4593.6
65°	1256.6	1332.3	1556.5	2078.4	2953.1	4029.2	4973.4	5192.3	5168.5	4913.2	4745.1
67.5°	636.1	670.3	758.5	1126.9	1986.0	3333.9	4640.3	5329.3	5358.4	5064.7	4799.1
70°	394.3	403.6	428.5	556.2	992.0	2190.5	3794.6	4972.4	5114.5	5040.9	4659.0
72.5°	316.5	318.6	322.7	346.6	476.3	1024.2	2399.0	3894.3	4150.6	4707.8	4458.7
75°	262.5	263.6	264.6	271.9	296.8	418.2	1167.3	2676.1	2976.0	4001.1	4134.0
77.5°	210.6	205.5	209.6	212.7	218.9	233.5	402.6	1427.8	1731.8	2626.3	3197.0
80°	137.0	134.9	143.2	146.3	152.5	161.9	214.8	484.6	588.3	955.7	1016.9
82.5°	73.7	69.5	87.2	84.0	87.2	94.4	126.6	177.4	199.2	288.5	243.8
85°	22.8	22.8	23.9	28.0	34.2	33.2	55.0	87.2	96.5	123.5	91.3
87.5°	4.2	4.2	4.2	4.2	4.2	5.2	11.4	17.6	23.9	42.5	32.2
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°	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1529.5	1520.1	1525.3	1528.4	1527.4	1525.3	1515.0	1512.9	1507.7	1499.4	1497.3
5°	1575.1	1564.8	1565.8	1562.7	1552.3	1538.8	1516.0	1504.6	1495.2	1484.9	1483.8
7.5°	1646.7	1635.3	1632.2	1617.7	1588.6	1557.5	1521.2	1500.4	1484.9	1471.4	1469.3
10°	1738.0	1726.6	1716.3	1682.0	1634.3	1592.8	1545.0	1515.0	1492.1	1475.5	1472.4
12.5°	1839.7	1830.4	1804.5	1754.6	1697.6	1648.8	1600.0	1562.7	1529.5	1504.6	1501.5
15°	1952.8	1932.1	1892.7	1828.3	1774.4	1734.9	1675.8	1624.9	1572.0	1538.8	1531.6
17.5°	2031.7	2014.1	1967.4	1905.1	1862.6	1828.3	1758.8	1686.2	1614.6	1565.8	1555.4
20°	2087.7	2069.1	2016.1	1970.5	1957.0	1927.9	1847.0	1763.0	1679.9	1619.8	1606.3
22.5°	2128.2	2108.5	2054.5	2031.7	2050.4	2045.2	1966.3	1870.9	1772.3	1700.7	1684.1
25°	2166.6	2147.9	2100.2	2108.5	2158.3	2173.9	2088.8	1977.7	1865.7	1781.6	1761.9
27.5°	2202.9	2179.0	2157.3	2202.9	2273.5	2302.5	2212.2	2086.7	1965.3	1879.2	1863.6
30°	2258.9	2230.9	2227.8	2294.2	2406.3	2431.2	2331.6	2206.0	2085.7	1998.5	1978.8
32.5°	2329.5	2303.6	2305.6	2405.2	2535.0	2555.7	2470.6	2353.4	2233.0	2145.8	2118.9
35°	2425.0	2392.8	2410.4	2532.9	2663.6	2702.0	2633.5	2536.0	2418.7	2329.5	2299.4
37.5°	2556.7	2510.1	2546.4	2675.0	2806.8	2863.9	2811.0	2738.3	2622.1	2531.8	2503.8
40°	2724.8	2686.4	2701.0	2843.1	2979.1	3047.5	3014.3	2942.7	2827.6	2733.1	2701.0
42.5°	2924.1	2885.7	2880.5	3032.0	3167.9	3271.7	3239.5	3174.1	3054.8	2946.9	2915.8
45°	3119.1	3083.9	3091.1	3245.7	3398.3	3511.4	3479.2	3402.4	3272.7	3148.2	3123.3
47.5°	3322.5	3293.5	3299.7	3463.6	3631.7	3744.8	3704.4	3611.0	3459.5	3326.7	3296.6
50°	3531.1	3497.9	3507.2	3679.5	3861.1	3967.9	3905.7	3767.7	3600.6	3470.9	3445.0
52.5°	3738.6	3699.2	3723.1	3886.0	4073.8	4158.9	4043.7	3876.6	3714.8	3586.1	3557.0
55°	3977.3	3935.8	3909.8	4084.2	4269.9	4305.2	4147.4	3952.4	3760.4	3614.1	3596.5
57.5°	4195.2	4159.9	4111.1	4285.5	4422.4	4396.5	4227.3	3931.6	3649.4	3461.6	3436.7
60°	4390.3	4360.2	4317.6	4466.0	4528.3	4470.2	4163.0	3685.7	3375.4	3179.3	3167.9
62.5°	4569.8	4537.6	4498.2	4624.8	4616.5	4481.6	3870.4	3308.0	2892.9	2682.3	2663.6
65°	4711.9	4682.9	4671.5	4771.1	4757.6	4258.5	3414.9	2689.6	2113.7	1876.1	1868.8
67.5°	4752.4	4741.0	4802.2	4971.3	4760.7	3810.2	2678.1	1783.7	1135.2	910.0	896.5
70°	4600.9	4599.9	4775.2	5017.0	4329.0	2910.6	1580.3	804.2	570.7	506.4	498.1
72.5°	4403.7	4400.6	4539.7	4328.0	3210.5	1592.8	665.1	430.6	356.9	339.3	339.3
75°	4080.0	4071.7	4176.5	3292.4	1805.5	599.8	352.8	295.7	280.2	277.0	277.0
77.5°	3325.6	3256.1	3091.1	2034.8	629.8	294.7	233.5	232.4	223.1	222.1	222.1
80°	1093.7	1093.7	1271.1	776.2	278.1	181.6	165.0	173.3	163.9	157.7	156.7
82.5°	178.5	245.9	349.7	222.1	150.5	113.1	101.7	107.9	113.1	90.3	90.3
85°	70.6	92.3	134.9	103.8	69.5	45.7	48.8	54.0	47.7	41.5	40.5
87.5°	27.0	33.2	47.7	24.9	14.5	8.3	5.2	5.2	4.2	4.2	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)