

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: P633408

Luminaire Tested: GWS-SA2E-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633408
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-SA2E-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15154 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

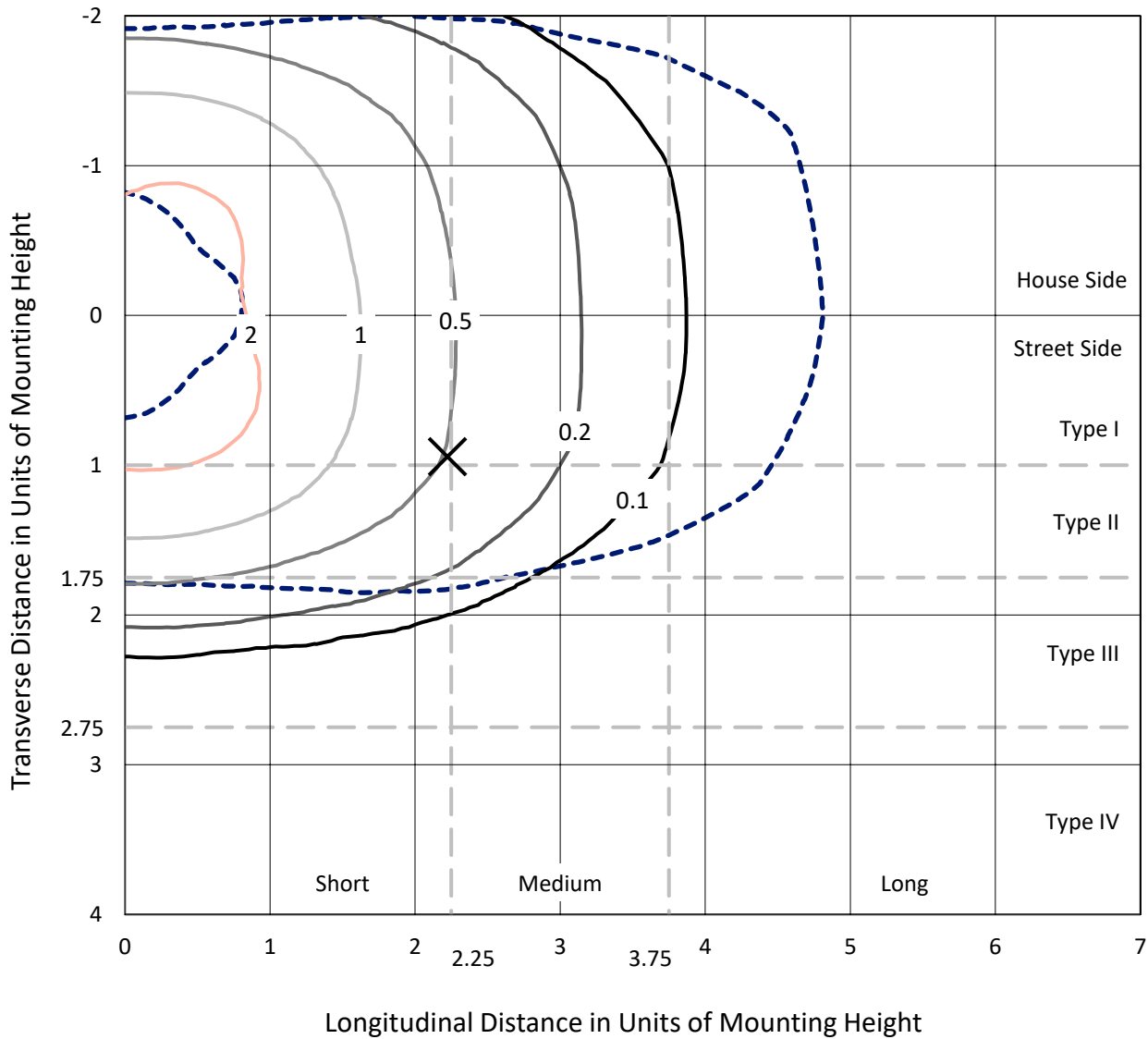
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

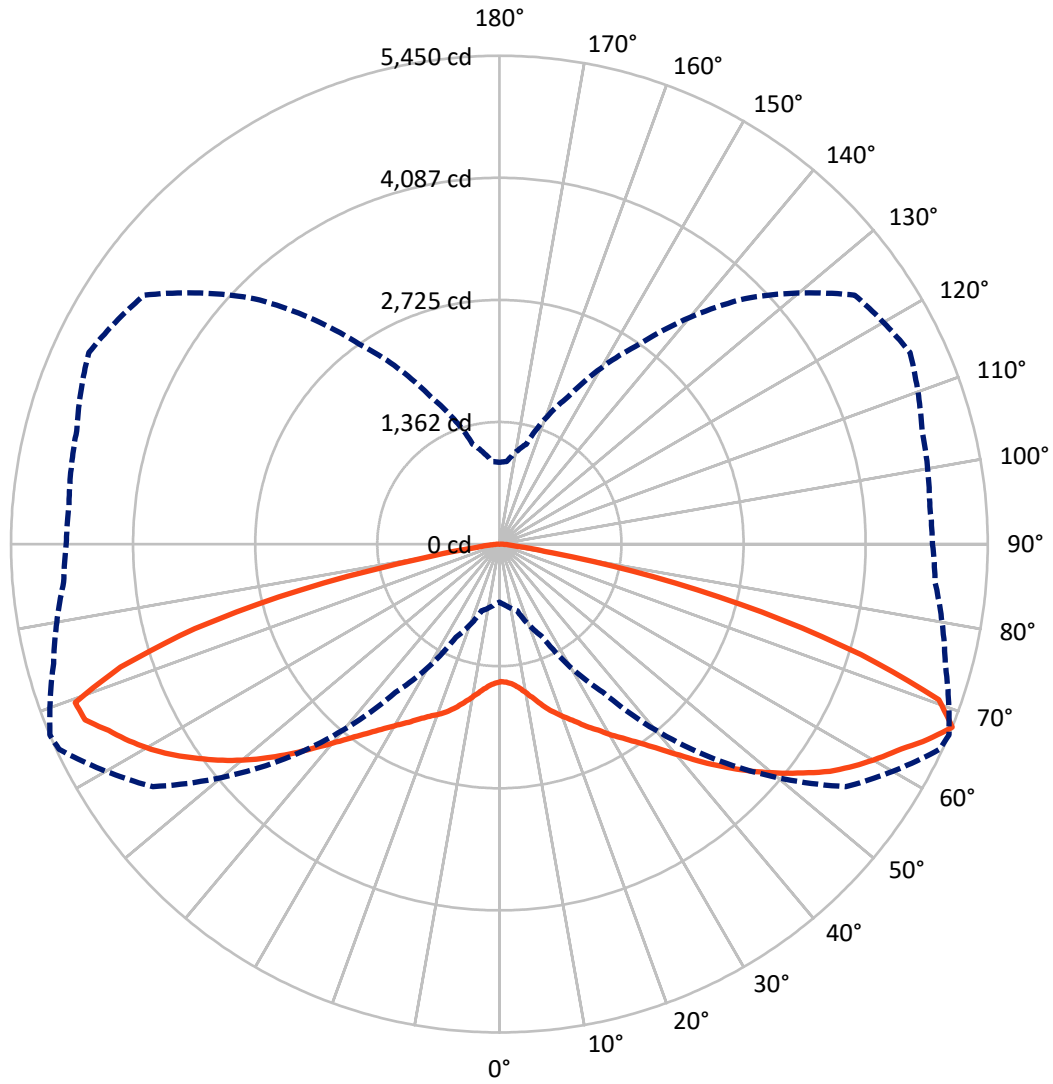
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	7493.4	0.0	7493.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7660.6	0.0	7660.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	15154.0	0.0	15154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	1.0
10°-20°	508.6	3.4
20°-30°	997.9	6.6
30°-40°	1700.1	11.2
40°-50°	2729.9	18.0
50°-60°	3709.4	24.5
60°-70°	3548.3	23.4
70°-80°	1687.0	11.1
80°-90°	122.2	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°	15154.0	100.0
0°-180°	15154.0	100.0

Coefficient of Utilization



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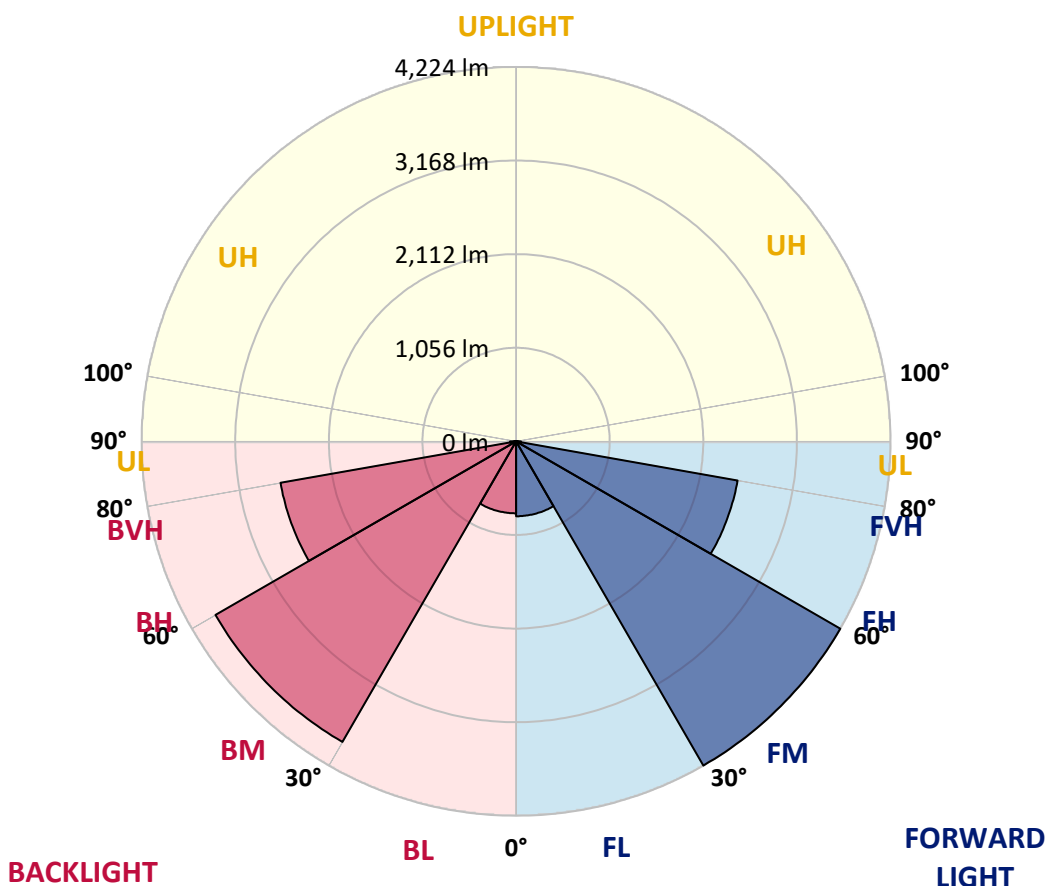
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.0	5.6			
FM (30°-60°)	4223.5	27.9			
FH (60°-80°)	2537.2	16.7			G2/5000
FVH (80°-90°)	54.9	0.4			G1/100
BL (0°-30°)	812.1	5.4	B2/1000		
BM (30°-60°)	3915.9	25.8	B3/5000		
BH (60°-80°)	2698.1	17.8	B4/5000		G4/5000
BVH (80°-90°)	67.3	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°	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4
2.5°	1502.8	1504.9	1508.0	1514.4	1520.7	1530.2	1539.7	1538.6	1542.9	1546.0	1549.2
5°	1494.3	1496.4	1501.7	1510.2	1519.7	1535.5	1555.5	1564.0	1570.3	1581.9	1592.5
7.5°	1512.3	1516.5	1523.9	1535.5	1550.3	1570.3	1597.7	1612.5	1622.0	1643.1	1661.1
10°	1536.5	1541.8	1556.6	1578.8	1600.9	1631.5	1666.3	1688.5	1694.8	1722.3	1756.0
12.5°	1559.8	1566.1	1590.4	1630.5	1670.6	1711.7	1752.9	1780.3	1782.4	1819.4	1857.4
15°	1596.7	1602.0	1634.7	1686.4	1747.6	1804.6	1855.2	1874.2	1882.7	1909.1	1956.6
17.5°	1677.9	1684.3	1726.5	1782.4	1846.8	1907.0	1957.6	1973.4	1973.4	1995.6	2034.6
20°	1765.5	1771.9	1827.8	1899.6	1977.7	2038.9	2077.9	2063.1	2057.9	2064.2	2091.6
22.5°	1863.7	1875.3	1929.1	2012.5	2108.5	2183.4	2203.5	2159.2	2144.4	2129.6	2136.0
25°	1989.3	2003.0	2055.8	2144.4	2238.3	2317.5	2329.1	2260.5	2252.0	2200.3	2181.3
27.5°	2133.8	2144.4	2209.8	2297.4	2385.0	2451.5	2464.2	2379.7	2351.2	2279.5	2235.2
30°	2320.6	2330.1	2387.1	2473.7	2549.6	2596.1	2611.9	2495.8	2473.7	2363.9	2295.3
32.5°	2524.3	2528.5	2586.6	2669.9	2737.5	2781.8	2759.6	2624.6	2591.9	2468.4	2374.5
35°	2757.5	2757.5	2832.5	2900.0	2953.8	2966.5	2924.3	2770.2	2732.2	2598.2	2481.0
37.5°	2986.5	2992.9	3062.5	3142.7	3190.2	3188.1	3111.1	2942.2	2898.9	2753.3	2623.5
40°	3234.5	3248.3	3317.9	3407.6	3453.0	3446.7	3328.5	3140.6	3096.3	2924.3	2797.6
42.5°	3462.5	3484.6	3565.9	3657.7	3707.3	3703.1	3579.6	3368.6	3325.3	3131.1	3004.5
45°	3644.0	3667.2	3768.5	3896.2	3975.4	3968.0	3843.5	3605.0	3552.2	3348.5	3209.2
47.5°	3803.4	3827.6	3940.5	4075.6	4201.2	4213.9	4099.9	3843.5	3787.5	3581.7	3424.5
50°	3925.8	3937.4	4064.0	4211.8	4357.4	4428.1	4328.9	4083.0	4015.5	3811.8	3634.5
52.5°	3916.3	3932.1	4088.3	4288.8	4484.0	4600.1	4531.5	4308.8	4243.4	4021.8	3848.7
55°	3723.1	3739.0	3924.7	4217.0	4554.7	4725.7	4718.3	4524.1	4476.6	4236.0	4071.4
57.5°	3441.4	3476.2	3660.9	3976.4	4461.9	4826.0	4855.5	4720.4	4670.8	4446.0	4292.0
60°	2936.9	2983.4	3196.5	3606.0	4164.3	4792.2	5002.2	4886.1	4855.5	4641.3	4491.4
62.5°	2133.8	2167.6	2451.5	2988.7	3723.1	4551.6	5125.7	5057.1	5033.8	4816.5	4671.9
65°	1278.0	1355.0	1583.0	2113.8	3003.4	4097.8	5058.1	5280.8	5256.5	4996.9	4826.0
67.5°	646.9	681.7	771.4	1146.1	2019.9	3390.7	4719.4	5420.1	5449.6	5151.0	4880.8
70°	401.0	410.5	435.8	565.6	1008.9	2227.8	3859.3	5057.1	5201.6	5126.7	4738.4
72.5°	321.9	324.0	328.2	352.5	484.4	1041.6	2439.9	3960.6	4221.3	4788.0	4534.7
75°	267.0	268.0	269.1	276.5	301.8	425.3	1187.2	2721.7	3026.6	4069.3	4204.4
77.5°	214.2	209.0	213.2	216.3	222.7	237.4	409.5	1452.1	1761.3	2671.0	3251.4
80°	139.3	137.2	145.6	148.8	155.1	164.6	218.5	492.8	598.4	971.9	1034.2
82.5°	74.9	70.7	88.6	85.5	88.6	96.0	128.7	180.5	202.6	293.4	248.0
85°	23.2	23.2	24.3	28.5	34.8	33.8	55.9	88.6	98.1	125.6	92.9
87.5°	4.2	4.2	4.2	4.2	4.2	5.3	11.6	17.9	24.3	43.3	32.7
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°	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4
2.5°	1555.5	1546.0	1551.3	1554.5	1553.4	1551.3	1540.8	1538.6	1533.4	1524.9	1522.8
5°	1602.0	1591.4	1592.5	1589.3	1578.8	1565.0	1541.8	1530.2	1520.7	1510.2	1509.1
7.5°	1674.8	1663.2	1660.0	1645.2	1615.7	1584.0	1547.1	1526.0	1510.2	1496.4	1494.3
10°	1767.7	1756.0	1745.5	1710.7	1662.1	1619.9	1571.4	1540.8	1517.5	1500.7	1497.5
12.5°	1871.1	1861.6	1835.2	1784.5	1726.5	1676.9	1627.3	1589.3	1555.5	1530.2	1527.0
15°	1986.1	1965.0	1924.9	1859.5	1804.6	1764.5	1704.3	1652.6	1598.8	1565.0	1557.6
17.5°	2066.3	2048.4	2000.9	1937.6	1894.3	1859.5	1788.8	1714.9	1642.1	1592.5	1581.9
20°	2123.3	2104.3	2050.5	2004.0	1990.3	1960.8	1878.5	1793.0	1708.6	1647.3	1633.6
22.5°	2164.4	2144.4	2089.5	2066.3	2085.3	2080.0	1999.8	1902.7	1802.5	1729.7	1712.8
25°	2203.5	2184.5	2136.0	2144.4	2195.1	2210.9	2124.3	2011.4	1897.5	1812.0	1791.9
27.5°	2240.4	2216.2	2194.0	2240.4	2312.2	2341.7	2249.9	2122.2	1998.8	1911.2	1895.3
30°	2297.4	2268.9	2265.8	2333.3	2447.3	2472.6	2371.3	2243.6	2121.2	2032.5	2012.5
32.5°	2369.2	2342.8	2344.9	2446.2	2578.1	2599.2	2512.7	2393.5	2271.0	2182.4	2155.0
35°	2466.3	2433.6	2451.5	2576.0	2709.0	2748.0	2678.4	2579.2	2459.9	2369.2	2338.6
37.5°	2600.3	2552.8	2589.7	2720.6	2854.6	2912.7	2858.8	2785.0	2666.8	2575.0	2546.5
40°	2771.3	2732.2	2747.0	2891.6	3029.8	3099.5	3065.7	2992.9	2875.7	2779.7	2747.0
42.5°	2973.9	2934.8	2929.6	3083.6	3221.9	3327.4	3294.7	3228.2	3106.8	2997.1	2965.4
45°	3172.3	3136.4	3143.8	3301.0	3456.2	3571.2	3538.5	3460.4	3328.5	3201.8	3176.5
47.5°	3379.1	3349.6	3355.9	3522.6	3693.6	3808.6	3767.5	3672.5	3518.4	3383.3	3352.7
50°	3591.2	3557.5	3567.0	3742.1	3926.8	4035.5	3972.2	3831.8	3661.9	3530.0	3503.6
52.5°	3802.3	3762.2	3786.5	3952.2	4143.2	4229.7	4112.6	3942.7	3778.0	3647.2	3617.6
55°	4045.0	4002.8	3976.4	4153.7	4342.6	4378.5	4218.1	4019.7	3824.5	3675.7	3657.7
57.5°	4266.6	4230.8	4181.2	4358.4	4497.7	4471.4	4299.4	3998.6	3711.5	3520.5	3495.2
60°	4465.0	4434.4	4391.2	4542.1	4605.4	4546.3	4233.9	3748.5	3432.9	3233.5	3221.9
62.5°	4647.6	4614.9	4574.8	4703.5	4695.1	4557.9	3936.3	3364.3	2942.2	2728.0	2709.0
65°	4792.2	4762.6	4751.0	4852.3	4838.6	4331.0	3473.0	2735.4	2149.7	1908.0	1900.6
67.5°	4833.3	4821.7	4884.0	5056.0	4841.8	3875.1	2723.8	1814.1	1154.5	925.5	911.8
70°	4679.3	4678.2	4856.6	5102.4	4402.8	2960.2	1607.2	817.9	580.4	515.0	506.6
72.5°	4478.8	4475.6	4617.0	4401.7	3265.1	1619.9	676.5	438.0	363.0	345.1	345.1
75°	4149.5	4141.1	4247.6	3348.5	1836.2	610.0	358.8	300.8	284.9	281.8	281.8
77.5°	3382.3	3311.6	3143.8	2069.5	640.6	299.7	237.4	236.4	226.9	225.8	225.8
80°	1112.3	1112.3	1292.8	789.4	282.8	184.7	167.8	176.2	166.7	160.4	159.4
82.5°	181.5	250.1	355.6	225.8	153.0	115.0	103.4	109.8	115.0	91.8	91.8
85°	71.8	93.9	137.2	105.5	70.7	46.4	49.6	54.9	48.5	42.2	41.2
87.5°	27.4	33.8	48.5	25.3	14.8	8.4	5.3	5.3	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)