

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: P634728

Luminaire Tested: GWS-SA3C-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634728
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-SA3C-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14163.2 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

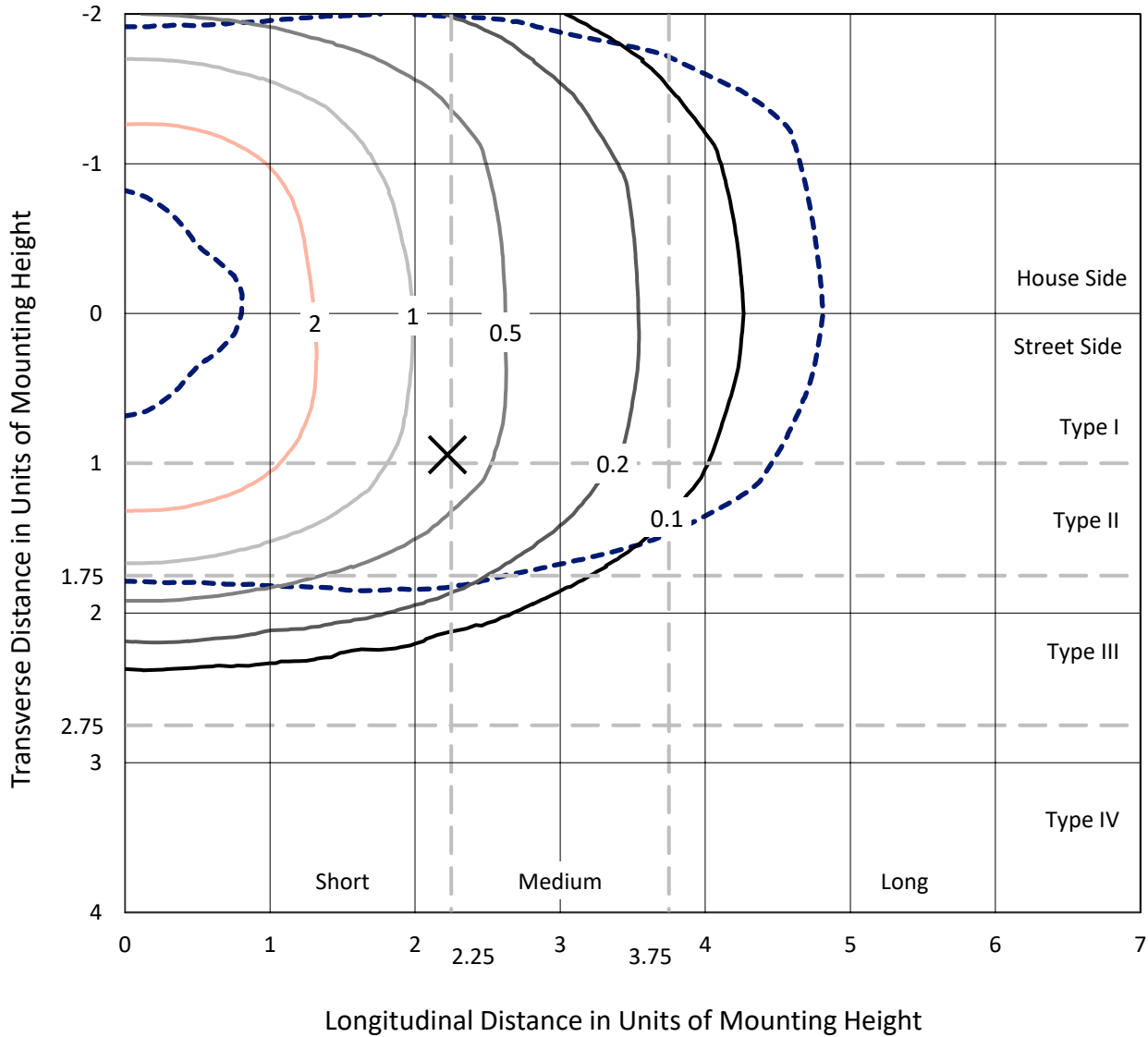
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

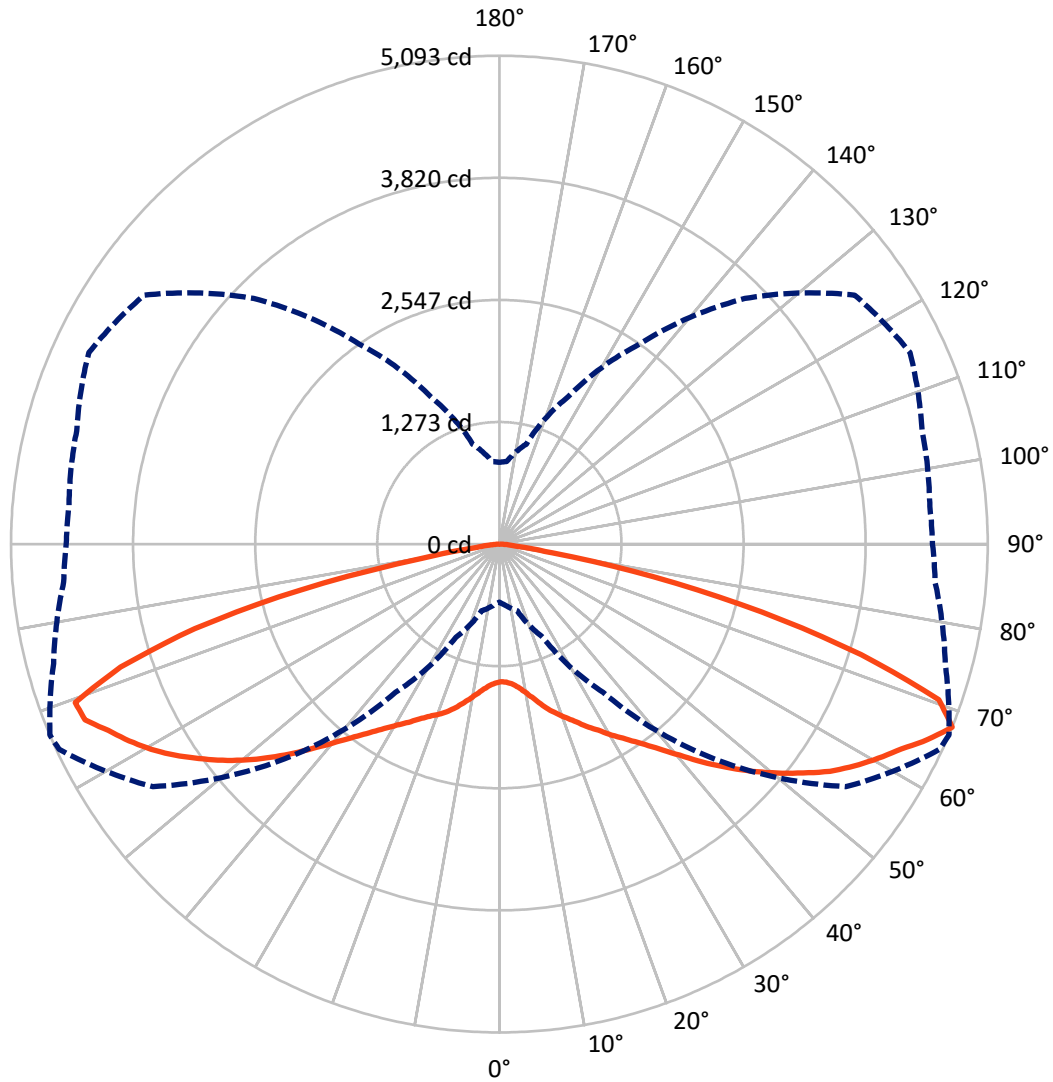
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	7003.4	0.0	7003.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7159.7	0.0	7159.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	14163.2	0.0	14163.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.0
10°-20°	475.4	3.4
20°-30°	932.6	6.6
30°-40°	1588.9	11.2
40°-50°	2551.5	18.0
50°-60°	3466.9	24.5
60°-70°	3316.3	23.4
70°-80°	1576.7	11.1
80°-90°	114.3	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°	14163.2	100.0
0°-180°	14163.2	100.0

Coefficient of Utilization



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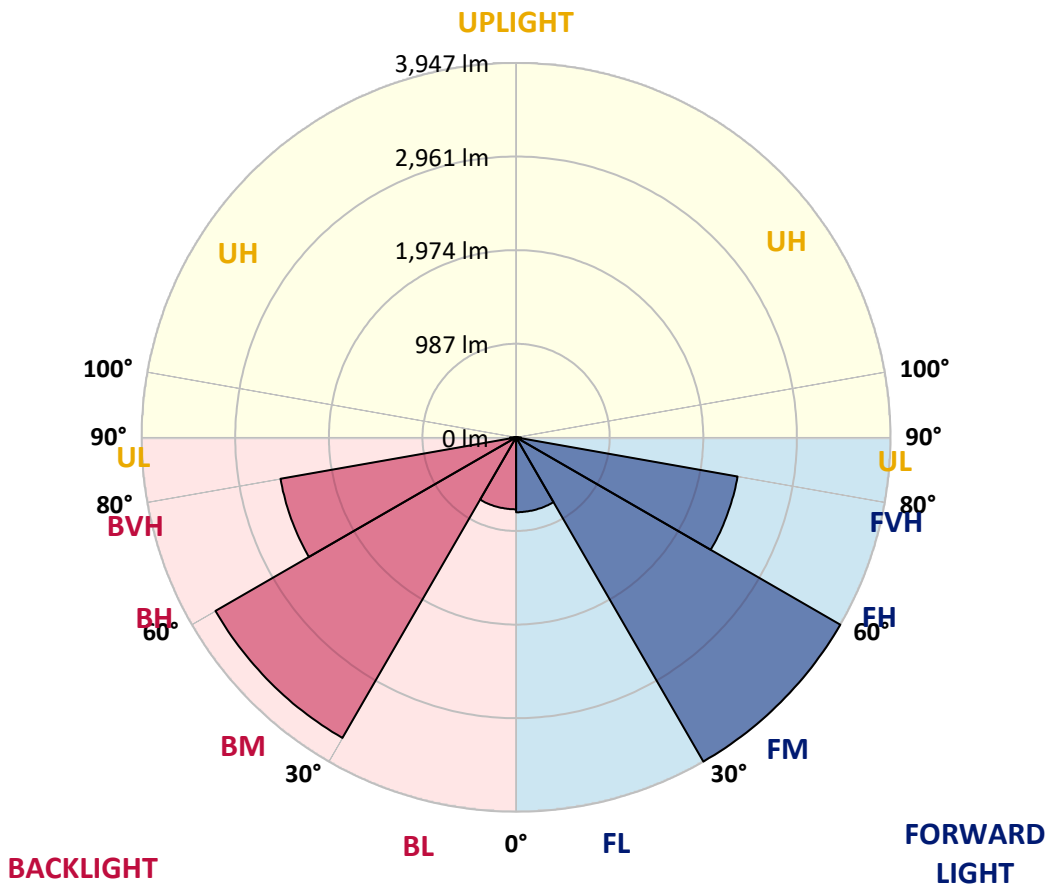
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.7	5.6			
FM (30°-60°)	3947.4	27.9			
FH (60°-80°)	2371.3	16.7			G2/5000
FVH (80°-90°)	51.4	0.4			G1/100
BL (0°-30°)	759.0	5.4	B2/1000		
BM (30°-60°)	3659.8	25.8	B3/5000		
BH (60°-80°)	2521.7	17.8	B4/5000		G4/5000
BVH (80°-90°)	62.9	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°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1404.5	1406.5	1409.4	1415.4	1421.3	1430.2	1439.0	1438.0	1442.0	1445.0	1447.9
5°	1396.6	1398.6	1403.5	1411.4	1420.3	1435.1	1453.8	1461.7	1467.6	1478.5	1488.4
7.5°	1413.4	1417.3	1424.2	1435.1	1448.9	1467.6	1493.3	1507.1	1516.0	1535.7	1552.5
10°	1436.1	1441.0	1454.8	1475.5	1496.2	1524.8	1557.4	1578.1	1584.0	1609.7	1641.2
12.5°	1457.8	1463.7	1486.4	1523.9	1561.3	1599.8	1638.3	1663.9	1665.9	1700.4	1735.9
15°	1492.3	1497.2	1527.8	1576.1	1633.3	1686.6	1733.9	1751.7	1759.6	1784.2	1828.6
17.5°	1568.2	1574.2	1613.6	1665.9	1726.1	1782.3	1829.6	1844.4	1844.4	1865.1	1901.6
20°	1650.1	1656.0	1708.3	1775.4	1848.4	1905.6	1942.1	1928.2	1923.3	1929.2	1954.9
22.5°	1741.8	1752.7	1803.0	1880.9	1970.7	2040.7	2059.4	2018.0	2004.2	1990.4	1996.3
25°	1859.2	1872.0	1921.3	2004.2	2092.0	2165.9	2176.8	2112.7	2104.8	2056.5	2038.7
27.5°	1994.3	2004.2	2065.3	2147.2	2229.1	2291.2	2303.0	2224.1	2197.5	2130.4	2089.0
30°	2168.9	2177.8	2231.0	2311.9	2382.9	2426.3	2441.1	2332.6	2311.9	2209.3	2145.2
32.5°	2359.3	2363.2	2417.5	2495.4	2558.5	2599.9	2579.2	2453.0	2422.4	2307.0	2219.2
35°	2577.2	2577.2	2647.3	2710.4	2760.7	2772.5	2733.1	2589.1	2553.6	2428.3	2318.8
37.5°	2791.3	2797.2	2862.3	2937.2	2981.6	2979.7	2907.7	2749.8	2709.4	2573.3	2452.0
40°	3023.1	3035.9	3101.0	3184.8	3227.2	3221.3	3110.8	2935.3	2893.9	2733.1	2614.7
42.5°	3236.1	3256.8	3332.8	3418.6	3464.9	3461.0	3345.6	3148.3	3107.9	2926.4	2808.0
45°	3405.7	3427.4	3522.1	3641.5	3715.5	3708.5	3592.2	3369.3	3319.9	3129.6	2999.4
47.5°	3554.7	3577.4	3682.9	3809.2	3926.5	3938.4	3831.8	3592.2	3539.9	3347.6	3200.6
50°	3669.1	3679.9	3798.3	3936.4	4072.5	4138.6	4045.9	3816.1	3752.9	3562.6	3396.9
52.5°	3660.2	3675.0	3821.0	4008.4	4190.9	4299.3	4235.2	4027.1	3966.0	3758.8	3597.1
55°	3479.7	3494.5	3668.1	3941.3	4256.9	4416.7	4409.8	4228.3	4184.0	3959.1	3805.2
57.5°	3216.4	3248.9	3421.5	3716.4	4170.1	4510.4	4538.0	4411.8	4365.4	4155.3	4011.3
60°	2744.9	2788.3	2987.6	3370.2	3892.0	4478.9	4675.1	4566.6	4538.0	4337.8	4197.8
62.5°	1994.3	2025.9	2291.2	2793.2	3479.7	4254.0	4790.5	4726.4	4704.7	4501.5	4366.4
65°	1194.4	1266.4	1479.5	1975.6	2807.1	3829.9	4727.4	4935.5	4912.8	4670.2	4510.4
67.5°	604.6	637.2	721.0	1071.1	1887.8	3169.0	4410.8	5065.7	5093.3	4814.2	4561.7
70°	374.8	383.7	407.3	528.7	942.9	2082.1	3607.0	4726.4	4861.5	4791.5	4428.6
72.5°	300.8	302.8	306.7	329.4	452.7	973.5	2280.4	3701.6	3945.3	4474.9	4238.2
75°	249.5	250.5	251.5	258.4	282.1	397.5	1109.6	2543.7	2828.8	3803.2	3929.5
77.5°	200.2	195.3	199.2	202.2	208.1	221.9	382.7	1357.2	1646.2	2496.4	3038.8
80°	130.2	128.2	136.1	139.1	145.0	153.9	204.2	460.6	559.2	908.4	966.6
82.5°	70.0	66.1	82.9	79.9	82.9	89.8	120.3	168.7	189.4	274.2	231.8
85°	21.7	21.7	22.7	26.6	32.5	31.6	52.3	82.9	91.7	117.4	86.8
87.5°	3.9	3.9	3.9	3.9	3.9	4.9	10.8	16.8	22.7	40.4	30.6
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°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1453.8	1445.0	1449.9	1452.8	1451.9	1449.9	1440.0	1438.0	1433.1	1425.2	1423.3
5°	1497.2	1487.4	1488.4	1485.4	1475.5	1462.7	1441.0	1430.2	1421.3	1411.4	1410.4
7.5°	1565.3	1554.4	1551.5	1537.7	1510.0	1480.5	1445.9	1426.2	1411.4	1398.6	1396.6
10°	1652.1	1641.2	1631.4	1598.8	1553.4	1514.0	1468.6	1440.0	1418.3	1402.5	1399.6
12.5°	1748.7	1739.9	1715.2	1667.9	1613.6	1567.3	1520.9	1485.4	1453.8	1430.2	1427.2
15°	1856.2	1836.5	1799.0	1737.9	1686.6	1649.1	1592.9	1544.6	1494.3	1462.7	1455.8
17.5°	1931.2	1914.4	1870.1	1810.9	1770.4	1737.9	1671.8	1602.8	1534.7	1488.4	1478.5
20°	1984.5	1966.7	1916.4	1873.0	1860.2	1832.6	1755.6	1675.8	1596.8	1539.6	1526.8
22.5°	2022.9	2004.2	1952.9	1931.2	1949.0	1944.0	1869.1	1778.3	1684.6	1616.6	1600.8
25°	2059.4	2041.7	1996.3	2004.2	2051.5	2066.3	1985.5	1879.9	1773.4	1693.5	1674.8
27.5°	2093.9	2071.3	2050.6	2093.9	2161.0	2188.6	2102.8	1983.5	1868.1	1786.2	1771.4
30°	2147.2	2120.6	2117.6	2180.7	2287.3	2310.9	2216.3	2096.9	1982.5	1899.6	1880.9
32.5°	2214.3	2189.6	2191.6	2286.3	2409.6	2429.3	2348.4	2237.0	2122.6	2039.7	2014.1
35°	2305.0	2274.4	2291.2	2407.6	2531.9	2568.4	2503.3	2410.6	2299.1	2214.3	2185.7
37.5°	2430.3	2385.9	2420.4	2542.7	2668.0	2722.2	2671.9	2602.9	2492.4	2406.6	2380.0
40°	2590.1	2553.6	2567.4	2702.5	2831.7	2896.8	2865.2	2797.2	2687.7	2598.0	2567.4
42.5°	2779.4	2742.9	2738.0	2882.0	3011.2	3109.9	3079.3	3017.1	2903.7	2801.1	2771.5
45°	2964.9	2931.3	2938.2	3085.2	3230.2	3337.7	3307.1	3234.1	3110.8	2992.5	2968.8
47.5°	3158.2	3130.6	3136.5	3292.3	3452.1	3559.6	3521.1	3432.4	3288.4	3162.1	3133.5
50°	3356.4	3324.9	3333.7	3497.5	3670.1	3771.7	3712.5	3581.3	3422.5	3299.2	3274.6
52.5°	3553.7	3516.2	3538.9	3693.8	3872.3	3953.2	3843.7	3684.9	3531.0	3408.7	3381.1
55°	3780.5	3741.1	3716.4	3882.1	4058.7	4092.2	3942.3	3756.9	3574.4	3435.3	3418.6
57.5°	3987.7	3954.1	3907.8	4073.5	4203.7	4179.0	4018.2	3737.1	3468.9	3290.3	3266.7
60°	4173.1	4144.5	4104.1	4245.1	4304.3	4249.0	3957.1	3503.4	3208.5	3022.1	3011.2
62.5°	4343.7	4313.2	4275.7	4396.0	4388.1	4259.9	3679.0	3144.4	2749.8	2549.6	2531.9
65°	4478.9	4451.2	4440.4	4535.1	4522.3	4047.8	3246.0	2556.5	2009.1	1783.3	1776.4
67.5°	4517.3	4506.5	4564.7	4725.4	4525.2	3621.8	2545.7	1695.5	1079.0	865.0	852.2
70°	4373.3	4372.3	4539.0	4768.8	4114.9	2766.6	1502.2	764.4	542.5	481.3	473.4
72.5°	4185.9	4183.0	4315.1	4113.9	3051.7	1514.0	632.2	409.3	339.3	322.5	322.5
75°	3878.2	3870.3	3969.9	3129.6	1716.2	570.1	335.3	281.1	266.3	263.3	263.3
77.5°	3161.1	3095.1	2938.2	1934.2	598.7	280.1	221.9	220.9	212.1	211.1	211.1
80°	1039.6	1039.6	1208.2	737.8	264.3	172.6	156.8	164.7	155.8	149.9	148.9
82.5°	169.6	233.8	332.4	211.1	143.0	107.5	96.7	102.6	107.5	85.8	85.8
85°	67.1	87.8	128.2	98.6	66.1	43.4	46.4	51.3	45.4	39.5	38.5
87.5°	25.6	31.6	45.4	23.7	13.8	7.9	4.9	4.9	3.9	3.9	3.9
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)