

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: P636983

Luminaire Tested: GWS-SA4B-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636983
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-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: 11836.6 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

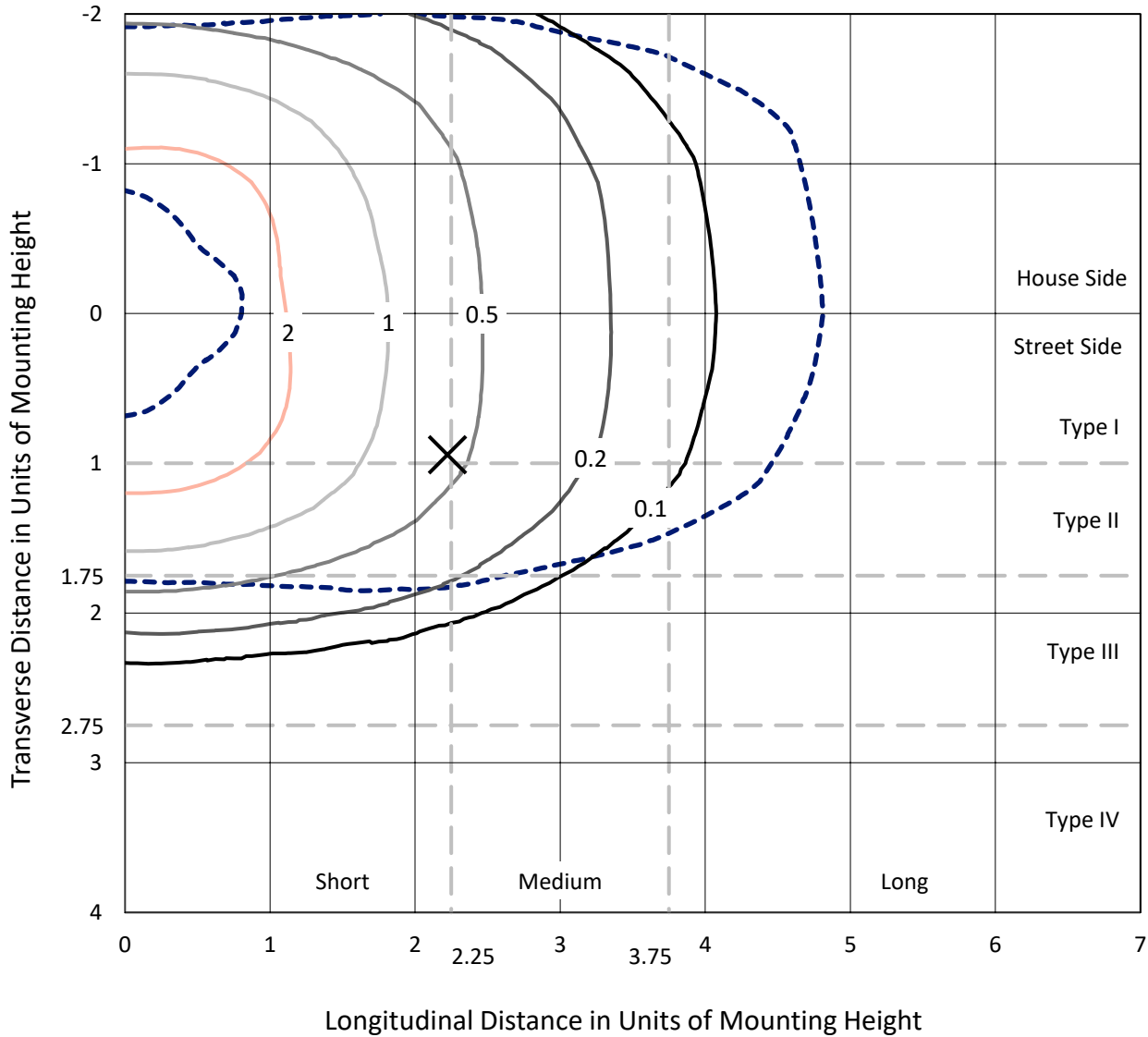
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

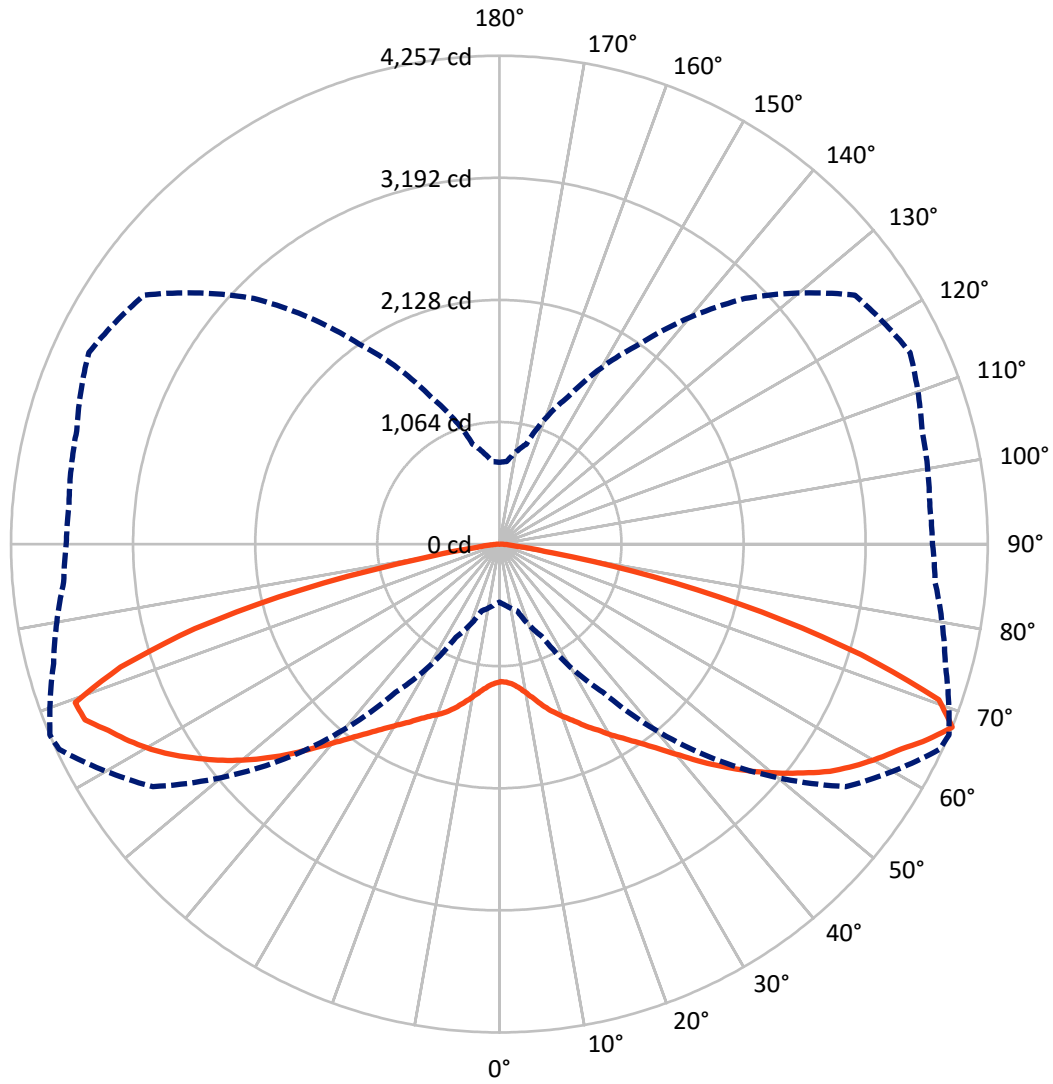
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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	5853.0	0.0	5853.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	5983.6	0.0	5983.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	11836.6	0.0	11836.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	1.0
10°-20°	397.3	3.4
20°-30°	779.4	6.6
30°-40°	1327.9	11.2
40°-50°	2132.3	18.0
50°-60°	2897.4	24.5
60°-70°	2771.5	23.4
70°-80°	1317.7	11.1
80°-90°	95.5	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°	11836.6	100.0
0°-180°	11836.6	100.0

Coefficient of Utilization



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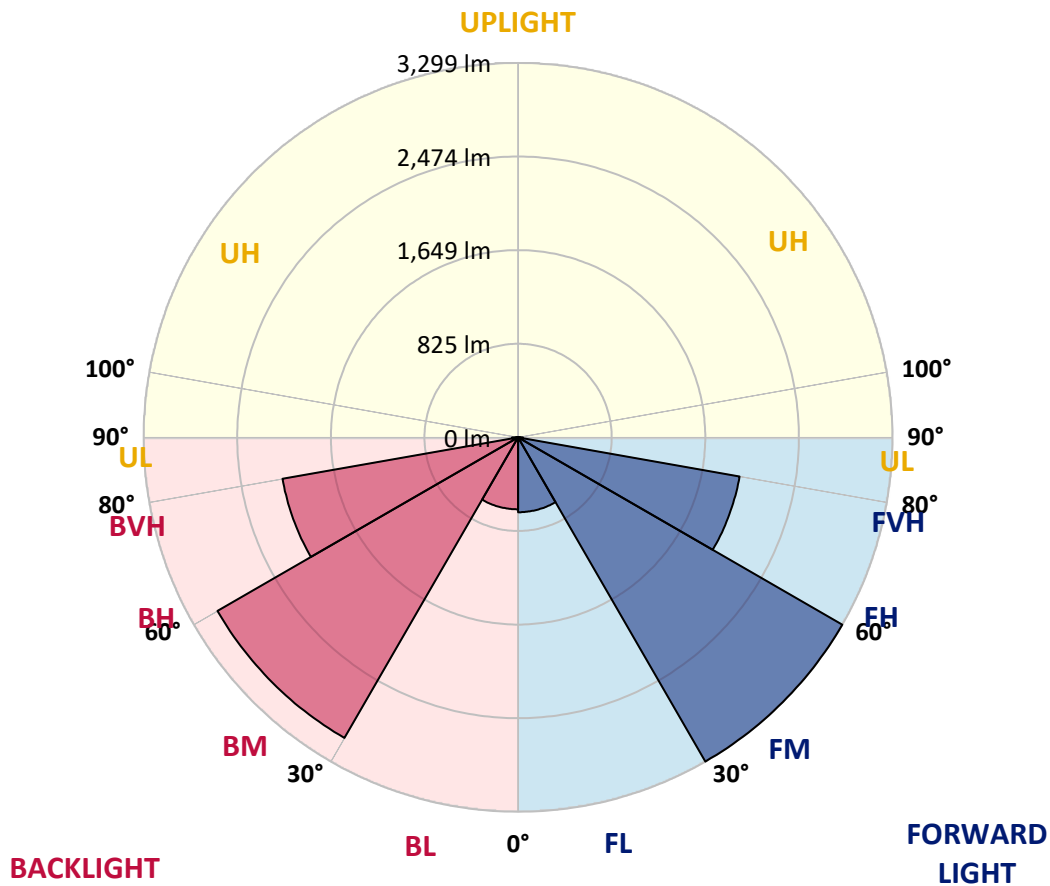
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.0	5.6			
FM (30°-60°)	3299.0	27.9			
FH (60°-80°)	1981.8	16.7			G2/5000
FVH (80°-90°)	42.9	0.4			G1/100
BL (0°-30°)	634.3	5.4	B2/1000		
BM (30°-60°)	3058.6	25.8	B3/5000		
BH (60°-80°)	2107.5	17.8	B3/2500		G3/2500
BVH (80°-90°)	52.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1173.8	1175.4	1177.9	1182.9	1187.8	1195.2	1202.6	1201.8	1205.1	1207.6	1210.1
5°	1167.2	1168.8	1173.0	1179.6	1187.0	1199.3	1215.0	1221.6	1226.5	1235.6	1243.9
7.5°	1181.2	1184.5	1190.3	1199.3	1210.9	1226.5	1248.0	1259.5	1266.9	1283.4	1297.4
10°	1200.2	1204.3	1215.8	1233.1	1250.5	1274.4	1301.6	1318.9	1323.8	1345.2	1371.6
12.5°	1218.3	1223.3	1242.2	1273.5	1304.9	1337.0	1369.2	1390.6	1392.2	1421.1	1450.8
15°	1247.2	1251.3	1276.8	1317.2	1365.0	1409.5	1449.1	1463.9	1470.5	1491.1	1528.2
17.5°	1310.6	1315.6	1348.5	1392.2	1442.5	1489.5	1529.1	1541.4	1541.4	1558.7	1589.2
20°	1379.0	1384.0	1427.7	1483.7	1544.7	1592.5	1623.0	1611.5	1607.4	1612.3	1633.7
22.5°	1455.7	1464.8	1506.8	1571.9	1646.9	1705.5	1721.1	1686.5	1675.0	1663.4	1668.4
25°	1553.8	1564.5	1605.7	1675.0	1748.3	1810.1	1819.2	1765.6	1759.0	1718.7	1703.8
27.5°	1666.7	1675.0	1726.1	1794.5	1862.9	1914.8	1924.7	1858.8	1836.5	1780.5	1745.9
30°	1812.6	1820.0	1864.6	1932.1	1991.5	2027.8	2040.1	1949.5	1932.1	1846.4	1792.8
32.5°	1971.7	1975.0	2020.3	2085.5	2138.2	2172.8	2155.5	2050.0	2024.5	1928.0	1854.7
35°	2153.9	2153.9	2212.4	2265.2	2307.2	2317.1	2284.1	2163.8	2134.1	2029.4	1937.9
37.5°	2332.7	2337.7	2392.1	2454.7	2491.8	2490.2	2430.0	2298.1	2264.3	2150.6	2049.2
40°	2526.5	2537.2	2591.6	2661.6	2697.1	2692.1	2599.8	2453.1	2418.5	2284.1	2185.2
42.5°	2704.5	2721.8	2785.3	2857.0	2895.7	2892.4	2796.0	2631.1	2597.3	2445.7	2346.8
45°	2846.3	2864.4	2943.5	3043.3	3105.1	3099.3	3002.1	2815.8	2774.6	2615.5	2506.7
47.5°	2970.8	2989.7	3077.9	3183.4	3281.5	3291.4	3202.4	3002.1	2958.4	2797.6	2674.8
50°	3066.4	3075.4	3174.4	3289.8	3403.5	3458.7	3381.2	3189.2	3136.4	2977.3	2838.9
52.5°	3059.0	3071.3	3193.3	3349.9	3502.4	3593.1	3539.5	3365.6	3314.5	3141.4	3006.2
55°	2908.1	2920.5	3065.5	3293.9	3557.6	3691.2	3685.4	3533.7	3496.7	3308.7	3180.1
57.5°	2688.0	2715.2	2859.5	3105.9	3485.1	3769.5	3792.6	3687.1	3648.3	3472.7	3352.4
60°	2294.0	2330.3	2496.8	2816.6	3252.7	3743.1	3907.1	3816.5	3792.6	3625.2	3508.2
62.5°	1666.7	1693.1	1914.8	2334.4	2908.1	3555.2	4003.6	3950.0	3931.9	3762.1	3649.1
65°	998.2	1058.4	1236.4	1651.1	2345.9	3200.7	3950.8	4124.8	4105.8	3903.0	3769.5
67.5°	505.3	532.5	602.6	895.2	1577.7	2648.5	3686.2	4233.6	4256.6	4023.4	3812.4
70°	313.2	320.6	340.4	441.8	788.0	1740.1	3014.4	3950.0	4062.9	4004.4	3701.1
72.5°	251.4	253.1	256.4	275.3	378.4	813.6	1905.8	3093.6	3297.2	3739.8	3542.0
75°	208.5	209.4	210.2	216.0	235.7	332.2	927.3	2125.9	2364.1	3178.5	3284.0
77.5°	167.3	163.2	166.5	169.0	173.9	185.5	319.8	1134.2	1375.7	2086.3	2539.6
80°	108.8	107.2	113.8	116.2	121.2	128.6	170.6	384.9	467.4	759.2	807.8
82.5°	58.5	55.2	69.2	66.8	69.2	75.0	100.6	141.0	158.3	229.2	193.7
85°	18.1	18.1	19.0	22.3	27.2	26.4	43.7	69.2	76.7	98.1	72.5
87.5°	3.3	3.3	3.3	3.3	3.3	4.1	9.1	14.0	19.0	33.8	25.6
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°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1215.0	1207.6	1211.7	1214.2	1213.4	1211.7	1203.5	1201.8	1197.7	1191.1	1189.5
5°	1251.3	1243.0	1243.9	1241.4	1233.1	1222.4	1204.3	1195.2	1187.8	1179.6	1178.7
7.5°	1308.2	1299.1	1296.6	1285.1	1262.0	1237.3	1208.4	1191.9	1179.6	1168.8	1167.2
10°	1380.7	1371.6	1363.4	1336.2	1298.3	1265.3	1227.4	1203.5	1185.3	1172.1	1169.7
12.5°	1461.5	1454.1	1433.4	1393.9	1348.5	1309.8	1271.1	1241.4	1215.0	1195.2	1192.8
15°	1551.3	1534.8	1503.5	1452.4	1409.5	1378.2	1331.2	1290.8	1248.8	1222.4	1216.7
17.5°	1614.0	1600.0	1562.9	1513.4	1479.6	1452.4	1397.2	1339.5	1282.6	1243.9	1235.6
20°	1658.5	1643.6	1601.6	1565.3	1554.6	1531.5	1467.2	1400.5	1334.5	1286.7	1276.0
22.5°	1690.6	1675.0	1632.1	1614.0	1628.8	1624.7	1562.0	1486.2	1407.9	1351.0	1337.8
25°	1721.1	1706.3	1668.4	1675.0	1714.5	1726.9	1659.3	1571.1	1482.1	1415.3	1399.6
27.5°	1750.0	1731.0	1713.7	1750.0	1806.0	1829.1	1757.4	1657.7	1561.2	1492.8	1480.4
30°	1794.5	1772.2	1769.8	1822.5	1911.5	1931.3	1852.2	1752.4	1656.8	1587.6	1571.9
32.5°	1850.5	1829.9	1831.6	1910.7	2013.7	2030.2	1962.6	1869.5	1773.9	1704.6	1683.2
35°	1926.4	1900.8	1914.8	2012.1	2116.0	2146.5	2092.1	2014.6	1921.4	1850.5	1826.6
37.5°	2031.1	1994.0	2022.8	2125.0	2229.7	2275.0	2233.0	2175.3	2083.0	2011.3	1989.0
40°	2164.6	2134.1	2145.6	2258.6	2366.5	2420.9	2394.6	2337.7	2246.2	2171.2	2145.6
42.5°	2322.9	2292.4	2288.2	2408.6	2516.6	2599.0	2573.4	2521.5	2426.7	2341.0	2316.3
45°	2477.8	2449.8	2455.6	2578.4	2699.6	2789.4	2763.9	2702.9	2599.8	2500.9	2481.1
47.5°	2639.4	2616.3	2621.3	2751.5	2885.0	2974.9	2942.7	2868.5	2748.2	2642.7	2618.8
50°	2805.1	2778.7	2786.1	2922.9	3067.2	3152.1	3102.6	2993.0	2860.3	2757.3	2736.7
52.5°	2969.9	2938.6	2957.6	3087.0	3236.2	3303.8	3212.3	3079.6	2951.0	2848.8	2825.7
55°	3159.5	3126.5	3105.9	3244.4	3392.0	3420.0	3294.7	3139.7	2987.2	2871.0	2857.0
57.5°	3332.6	3304.6	3265.8	3404.3	3513.1	3492.5	3358.2	3123.2	2899.0	2749.8	2730.1
60°	3487.6	3463.7	3429.9	3547.8	3597.2	3551.1	3307.1	2927.9	2681.4	2525.6	2516.6
62.5°	3630.2	3604.6	3573.3	3673.9	3667.3	3560.1	3074.6	2627.8	2298.1	2130.8	2116.0
65°	3743.1	3720.0	3711.0	3790.1	3779.4	3382.9	2712.7	2136.6	1679.1	1490.3	1484.6
67.5°	3775.3	3766.2	3814.8	3949.2	3781.9	3026.8	2127.5	1417.0	901.8	722.9	712.2
70°	3654.9	3654.1	3793.4	3985.5	3438.9	2312.1	1255.4	638.8	453.4	402.3	395.7
72.5°	3498.3	3495.8	3606.3	3438.1	2550.4	1265.3	528.4	342.1	283.6	269.5	269.5
75°	3241.1	3234.5	3317.8	2615.5	1434.3	476.4	280.3	234.9	222.6	220.1	220.1
77.5°	2641.9	2586.6	2455.6	1616.4	500.3	234.1	185.5	184.6	177.2	176.4	176.4
80°	868.8	868.8	1009.8	616.6	220.9	144.3	131.1	137.7	130.2	125.3	124.5
82.5°	141.8	195.4	277.8	176.4	119.5	89.8	80.8	85.7	89.8	71.7	71.7
85°	56.1	73.4	107.2	82.4	55.2	36.3	38.7	42.9	37.9	33.0	32.1
87.5°	21.4	26.4	37.9	19.8	11.5	6.6	4.1	4.1	3.3	3.3	3.3
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)