

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: P633078

Luminaire Tested: GWS-SA2E-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633078
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-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11064 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

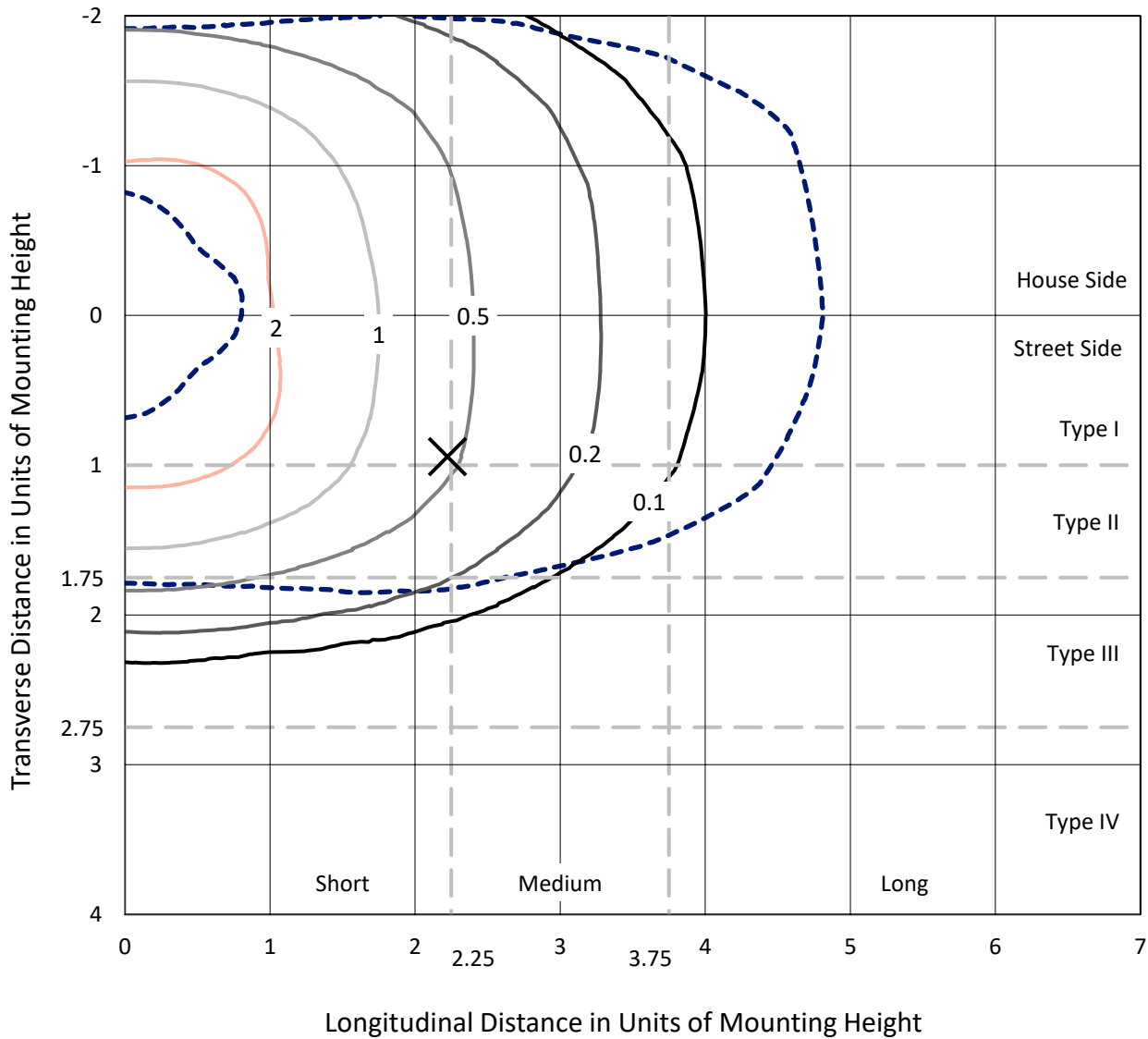
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

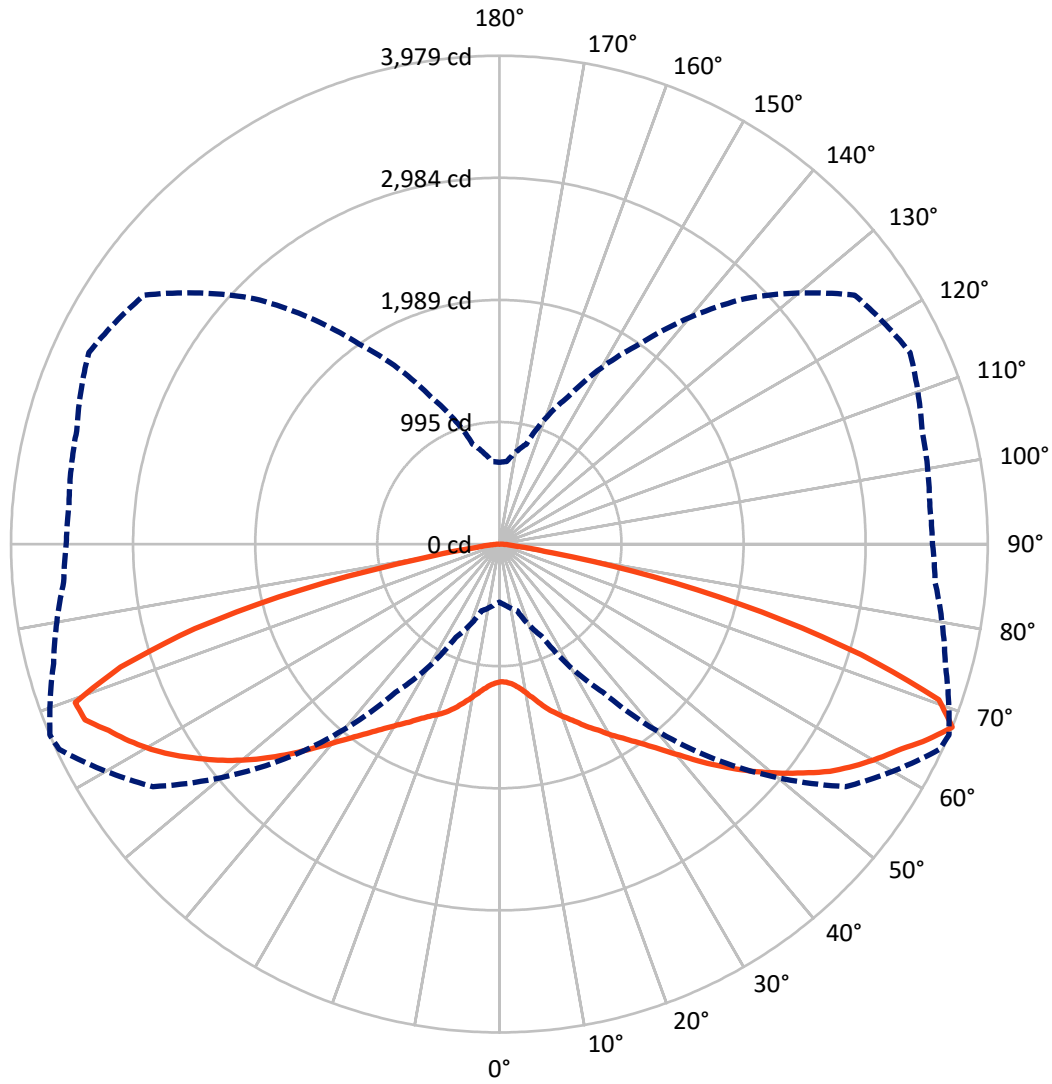
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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	5471.0	0.0	5471.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	5593.1	0.0	5593.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	11064.0	0.0	11064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.0
10°-20°	371.3	3.4
20°-30°	728.6	6.6
30°-40°	1241.2	11.2
40°-50°	1993.1	18.0
50°-60°	2708.3	24.5
60°-70°	2590.6	23.4
70°-80°	1231.7	11.1
80°-90°	89.3	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°	11064.0	100.0
0°-180°	11064.0	100.0

Coefficient of Utilization



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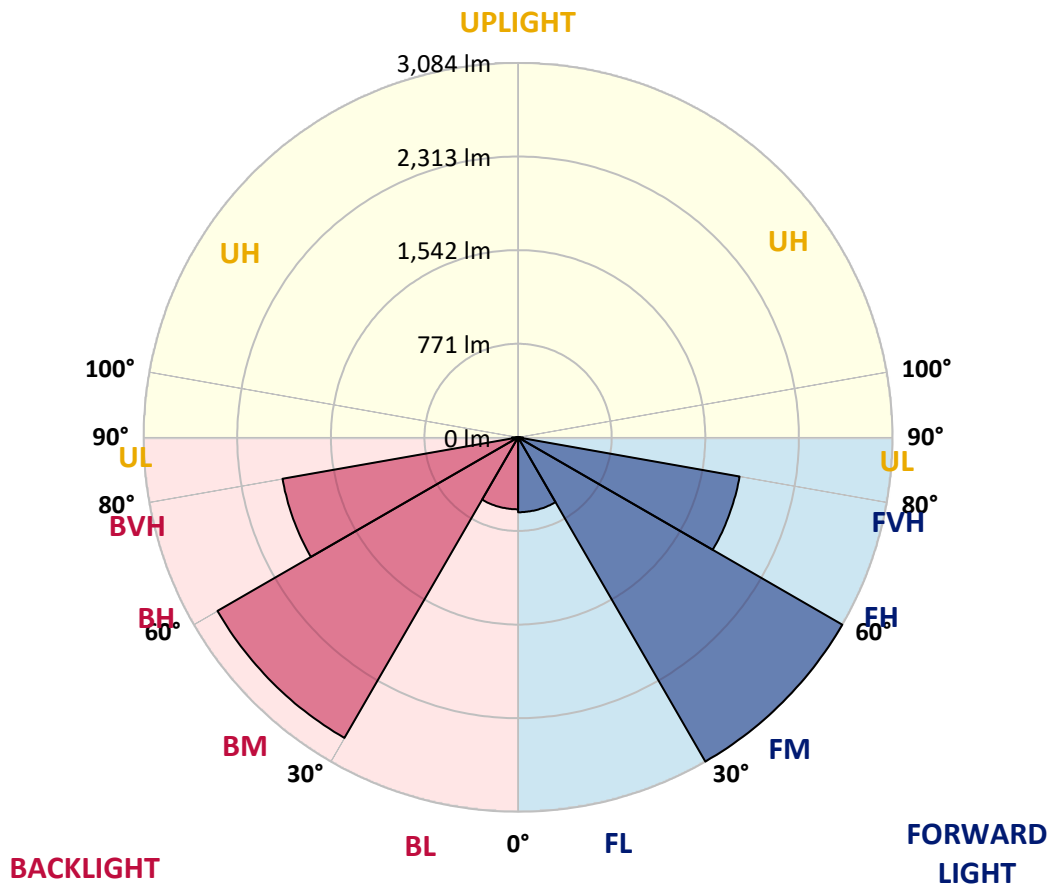
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.9	5.6			
FM (30°-60°)	3083.6	27.9			
FH (60°-80°)	1852.4	16.7			G2/5000
FVH (80°-90°)	40.1	0.4			G1/100
BL (0°-30°)	592.9	5.4	B2/1000		
BM (30°-60°)	2859.0	25.8	B3/5000		
BH (60°-80°)	1969.9	17.8	B3/2500		G3/2500
BVH (80°-90°)	49.1	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°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1097.2	1098.7	1101.0	1105.7	1110.3	1117.2	1124.1	1123.4	1126.5	1128.8	1131.1
5°	1091.0	1092.6	1096.4	1102.6	1109.5	1121.1	1135.7	1141.9	1146.5	1155.0	1162.7
7.5°	1104.1	1107.2	1112.6	1121.1	1131.8	1146.5	1166.5	1177.3	1184.2	1199.7	1212.8
10°	1121.8	1125.7	1136.5	1152.7	1168.8	1191.2	1216.6	1232.8	1237.4	1257.4	1282.1
12.5°	1138.8	1143.4	1161.1	1190.4	1219.7	1249.7	1279.8	1299.8	1301.4	1328.3	1356.1
15°	1165.8	1169.6	1193.5	1231.2	1275.9	1317.5	1354.5	1368.4	1374.6	1393.8	1428.5
17.5°	1225.1	1229.7	1260.5	1301.4	1348.4	1392.3	1429.3	1440.8	1440.8	1457.0	1485.5
20°	1289.0	1293.7	1334.5	1386.9	1443.9	1488.6	1517.1	1506.3	1502.5	1507.1	1527.1
22.5°	1360.7	1369.2	1408.5	1469.3	1539.4	1594.1	1608.8	1576.4	1565.6	1554.8	1559.5
25°	1452.4	1462.4	1500.9	1565.6	1634.2	1692.0	1700.5	1650.4	1644.2	1606.5	1592.6
27.5°	1557.9	1565.6	1613.4	1677.4	1741.3	1789.8	1799.1	1737.5	1716.7	1664.3	1631.9
30°	1694.3	1701.2	1742.8	1806.0	1861.5	1895.4	1907.0	1822.2	1806.0	1725.9	1675.8
32.5°	1843.0	1846.1	1888.5	1949.3	1998.6	2031.0	2014.8	1916.2	1892.3	1802.2	1733.6
35°	2013.3	2013.3	2068.0	2117.3	2156.6	2165.8	2135.0	2022.5	1994.8	1896.9	1811.4
37.5°	2180.5	2185.1	2236.0	2294.5	2329.2	2327.6	2271.4	2148.1	2116.5	2010.2	1915.4
40°	2361.6	2371.6	2422.4	2487.9	2521.0	2516.4	2430.1	2293.0	2260.6	2135.0	2042.6
42.5°	2528.0	2544.2	2603.5	2670.5	2706.7	2703.6	2613.5	2459.4	2427.8	2286.0	2193.6
45°	2660.5	2677.5	2751.4	2844.6	2902.4	2897.0	2806.1	2632.0	2593.5	2444.8	2343.1
47.5°	2776.8	2794.6	2877.0	2975.6	3067.3	3076.6	2993.4	2806.1	2765.3	2615.0	2500.2
50°	2866.2	2874.7	2967.2	3075.0	3181.4	3233.0	3160.5	2981.0	2931.7	2783.0	2653.6
52.5°	2859.3	2870.8	2984.9	3131.3	3273.8	3358.6	3308.5	3145.9	3098.1	2936.3	2810.0
55°	2718.3	2729.8	2865.5	3078.9	3325.4	3450.3	3444.9	3303.1	3268.4	3092.7	2972.5
57.5°	2512.6	2538.0	2672.8	2903.2	3257.6	3523.4	3545.0	3446.4	3410.2	3246.1	3133.6
60°	2144.3	2178.2	2333.8	2632.8	3040.4	3498.8	3652.1	3567.4	3545.0	3388.6	3279.2
62.5°	1557.9	1582.6	1789.8	2182.0	2718.3	3323.1	3742.3	3692.2	3675.2	3516.5	3411.0
65°	933.1	989.3	1155.7	1543.3	2192.8	2991.8	3693.0	3855.5	3837.8	3648.3	3523.4
67.5°	472.3	497.7	563.2	836.8	1474.7	2475.6	3445.6	3957.2	3978.8	3760.8	3563.5
70°	292.8	299.7	318.2	413.0	736.6	1626.5	2817.7	3692.2	3797.7	3743.0	3459.5
72.5°	235.0	236.5	239.6	257.3	353.7	760.5	1781.4	2891.6	3082.0	3495.7	3310.8
75°	194.9	195.7	196.5	201.9	220.4	310.5	866.8	1987.1	2209.8	2971.0	3069.6
77.5°	156.4	152.6	155.6	158.0	162.6	173.4	298.9	1060.2	1285.9	1950.1	2373.9
80°	101.7	100.2	106.3	108.6	113.3	120.2	159.5	359.8	436.9	709.6	755.1
82.5°	54.7	51.6	64.7	62.4	64.7	70.1	94.0	131.8	147.9	214.2	181.1
85°	17.0	17.0	17.7	20.8	25.4	24.7	40.8	64.7	71.7	91.7	67.8
87.5°	3.1	3.1	3.1	3.1	3.1	3.9	8.5	13.1	17.7	31.6	23.9
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°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1135.7	1128.8	1132.6	1134.9	1134.2	1132.6	1124.9	1123.4	1119.5	1113.4	1111.8
5°	1169.6	1161.9	1162.7	1160.4	1152.7	1142.6	1125.7	1117.2	1110.3	1102.6	1101.8
7.5°	1222.8	1214.3	1212.0	1201.2	1179.6	1156.5	1129.5	1114.1	1102.6	1092.6	1091.0
10°	1290.6	1282.1	1274.4	1249.0	1213.5	1182.7	1147.3	1124.9	1108.0	1095.6	1093.3
12.5°	1366.1	1359.1	1339.9	1302.9	1260.5	1224.3	1188.1	1160.4	1135.7	1117.2	1114.9
15°	1450.1	1434.7	1405.4	1357.6	1317.5	1288.3	1244.3	1206.6	1167.3	1142.6	1137.2
17.5°	1508.6	1495.5	1460.8	1414.6	1383.0	1357.6	1306.0	1252.0	1198.9	1162.7	1155.0
20°	1550.2	1536.4	1497.1	1463.2	1453.1	1431.6	1371.5	1309.1	1247.4	1202.7	1192.7
22.5°	1580.3	1565.6	1525.6	1508.6	1522.5	1518.6	1460.1	1389.2	1316.0	1262.8	1250.5
25°	1608.8	1594.9	1559.5	1565.6	1602.6	1614.2	1551.0	1468.6	1385.3	1322.9	1308.3
27.5°	1635.7	1618.0	1601.8	1635.7	1688.1	1709.7	1642.7	1549.5	1459.3	1395.4	1383.8
30°	1677.4	1656.6	1654.2	1703.6	1786.8	1805.3	1731.3	1638.1	1548.7	1484.0	1469.3
32.5°	1729.7	1710.5	1712.0	1786.0	1882.3	1897.7	1834.5	1747.5	1658.1	1593.4	1573.3
35°	1800.6	1776.7	1789.8	1880.8	1977.8	2006.4	1955.5	1883.1	1796.0	1729.7	1707.4
37.5°	1898.5	1863.8	1890.8	1986.3	2084.2	2126.6	2087.3	2033.3	1947.0	1880.0	1859.2
40°	2023.3	1994.8	2005.6	2111.1	2212.1	2262.9	2238.3	2185.1	2099.6	2029.5	2005.6
42.5°	2171.2	2142.7	2138.9	2251.4	2352.3	2429.4	2405.5	2356.9	2268.3	2188.2	2165.1
45°	2316.1	2289.9	2295.3	2410.1	2523.4	2607.3	2583.5	2526.4	2430.1	2337.7	2319.2
47.5°	2467.1	2445.5	2450.2	2571.9	2696.7	2780.7	2750.6	2681.3	2568.8	2470.2	2447.8
50°	2622.0	2597.3	2604.3	2732.2	2867.0	2946.4	2900.1	2797.6	2673.6	2577.3	2558.0
52.5°	2776.1	2746.8	2764.5	2885.5	3024.9	3088.1	3002.6	2878.5	2758.4	2662.8	2641.2
55°	2953.3	2922.5	2903.2	3032.6	3170.6	3196.8	3079.6	2934.8	2792.3	2683.6	2670.5
57.5°	3115.1	3088.9	3052.7	3182.1	3283.8	3264.6	3139.0	2919.4	2709.8	2570.4	2551.9
60°	3259.9	3237.6	3206.0	3316.2	3362.4	3319.3	3091.2	2736.8	2506.4	2360.8	2352.3
62.5°	3393.2	3369.4	3340.1	3434.1	3427.9	3327.7	2873.9	2456.3	2148.1	1991.7	1977.8
65°	3498.8	3477.2	3468.7	3542.7	3532.7	3162.1	2535.7	1997.1	1569.5	1393.0	1387.7
67.5°	3528.8	3520.4	3565.8	3691.4	3535.0	2829.2	1988.6	1324.5	842.9	675.7	665.7
70°	3416.4	3415.6	3545.8	3725.3	3214.5	2161.2	1173.5	597.1	423.8	376.0	369.8
72.5°	3270.0	3267.6	3370.9	3213.7	2383.9	1182.7	493.9	319.8	265.0	252.0	252.0
75°	3029.6	3023.4	3101.2	2444.8	1340.7	445.3	262.0	219.6	208.0	205.7	205.7
77.5°	2469.4	2417.8	2295.3	1510.9	467.7	218.8	173.4	172.6	165.7	164.9	164.9
80°	812.1	812.1	943.8	576.3	206.5	134.8	122.5	128.7	121.7	117.1	116.3
82.5°	132.5	182.6	259.7	164.9	111.7	84.0	75.5	80.1	84.0	67.0	67.0
85°	52.4	68.6	100.2	77.0	51.6	33.9	36.2	40.1	35.4	30.8	30.0
87.5°	20.0	24.7	35.4	18.5	10.8	6.2	3.9	3.9	3.1	3.1	3.1
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)