

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: P631353

Luminaire Tested: GWS-SA1F-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8564.7 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

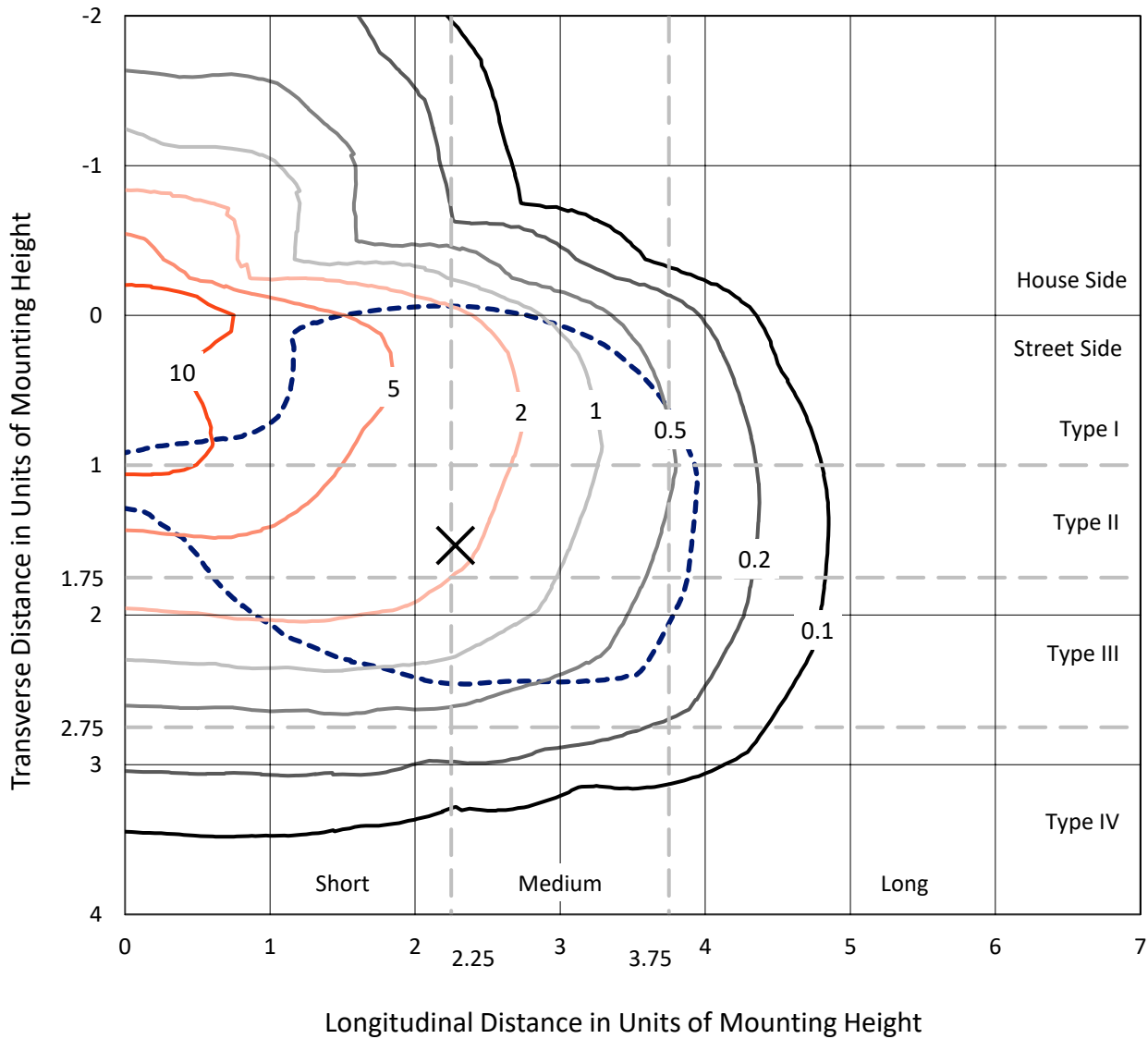
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

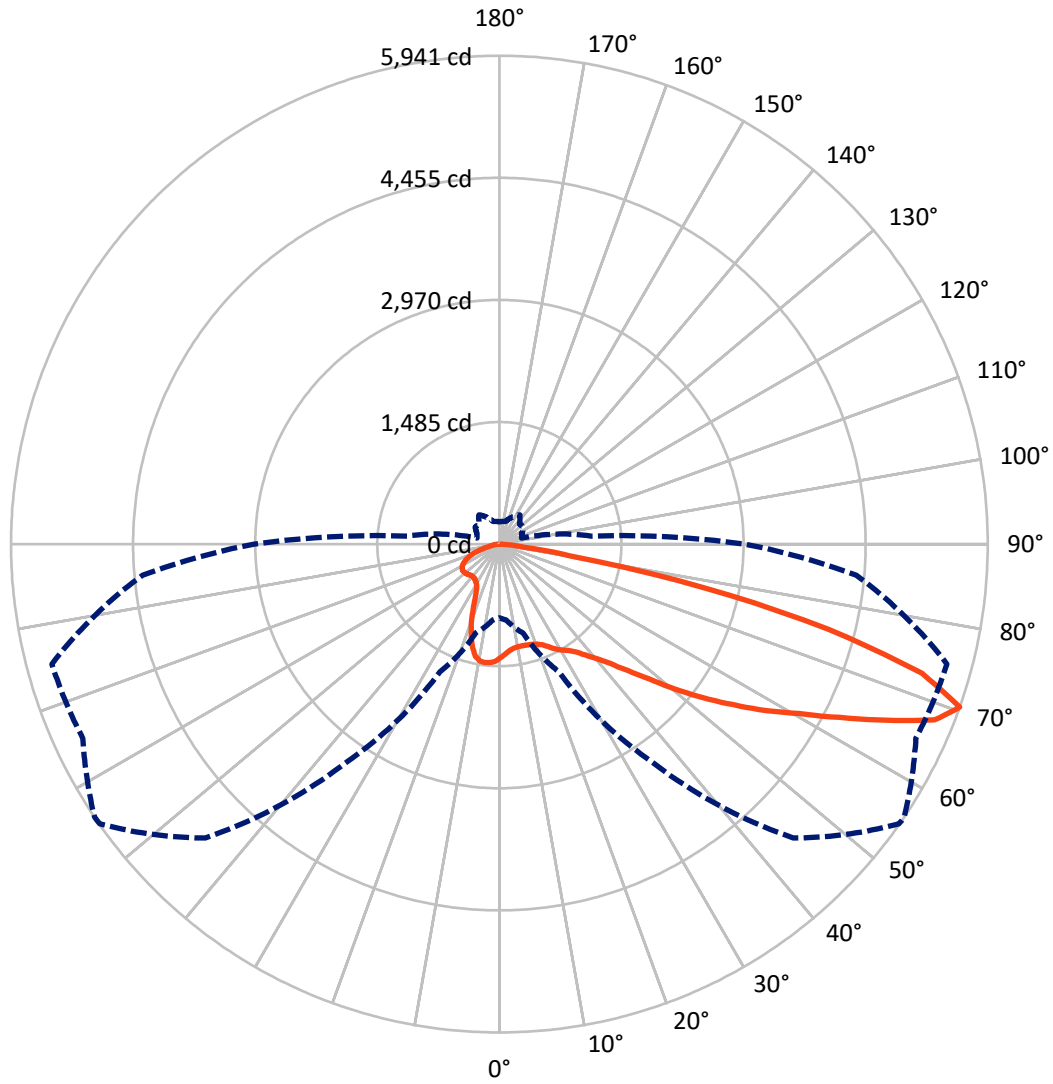
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1646.6	0.0	1646.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	6918.1	0.0	6918.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	8564.7	0.0	8564.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.5
10°-20°	346.6	4.0
20°-30°	573.1	6.7
30°-40°	856.8	10.0
40°-50°	1275.1	14.9
50°-60°	1812.8	21.2
60°-70°	2245.2	26.2
70°-80°	1239.8	14.5
80°-90°	87.3	1.0
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°	8564.7	100.0
0°-180°	8564.7	100.0

Coefficient of Utilization



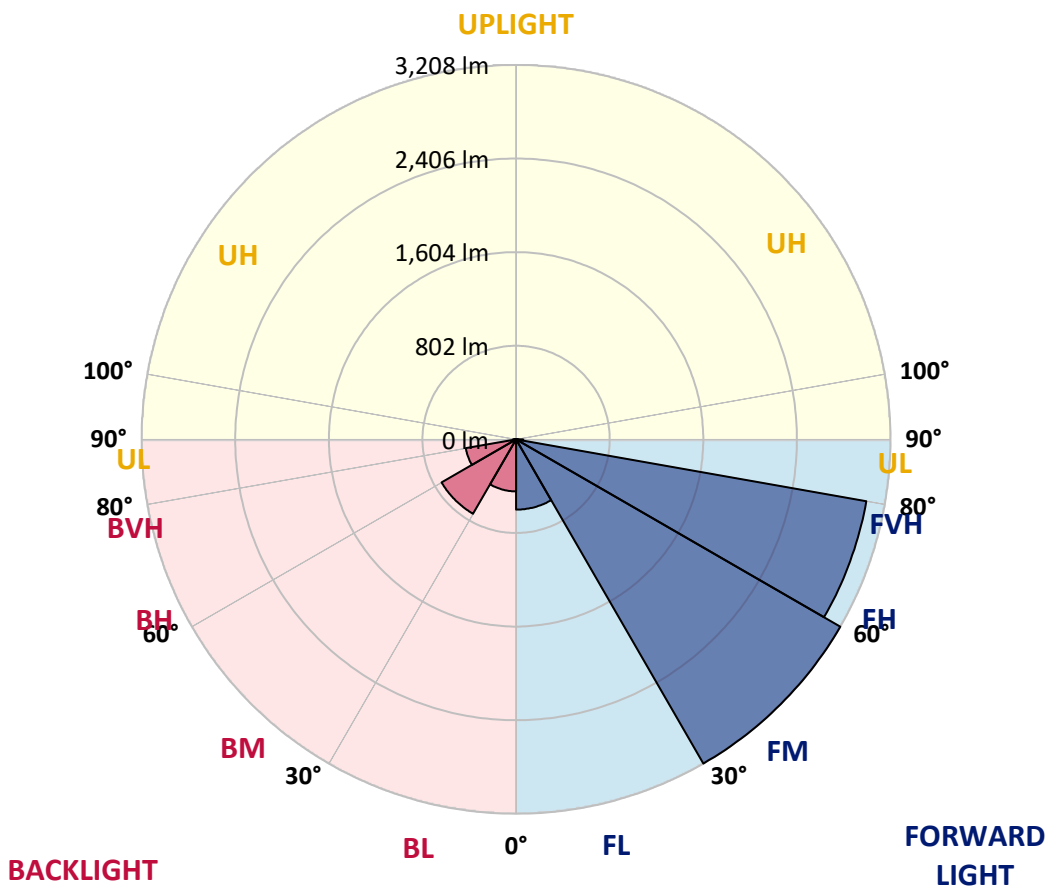
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.9	7.0			
FM (30°-60°)	3208.2	37.5			
FH (60°-80°)	3047.3	35.6			G2/5000
FVH (80°-90°)	60.7	0.7			G1/100
BL (0°-30°)	445.7	5.2	B1/500		
BM (30°-60°)	736.6	8.6	B1/1000		
BH (60°-80°)	437.7	5.1	B1/500		G1/500
BVH (80°-90°)	26.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5
2.5°	1293.7	1286.4	1294.9	1299.1	1310.0	1325.7	1339.6	1340.2	1347.4	1365.0	1381.9
5°	1235.1	1231.5	1233.9	1246.6	1258.1	1278.0	1299.1	1300.9	1321.5	1355.9	1389.7
7.5°	1189.8	1185.0	1194.0	1210.3	1224.8	1247.2	1275.0	1277.4	1306.4	1358.3	1410.3
10°	1124.6	1121.0	1137.9	1159.6	1191.0	1227.9	1264.7	1267.7	1305.8	1374.0	1446.5
12.5°	1096.2	1096.2	1103.4	1124.0	1158.4	1207.3	1262.9	1267.7	1315.4	1398.2	1493.0
15°	1140.3	1143.3	1137.3	1136.1	1149.9	1196.5	1265.3	1272.6	1333.6	1422.9	1538.9
17.5°	1229.1	1232.1	1216.4	1191.6	1177.7	1206.7	1274.4	1282.2	1352.9	1450.1	1588.4
20°	1353.5	1357.1	1322.7	1284.6	1236.9	1236.3	1291.9	1299.1	1377.6	1479.7	1641.0
22.5°	1499.0	1501.5	1458.0	1397.6	1324.5	1291.3	1322.1	1329.3	1409.7	1520.8	1697.7
25°	1667.5	1674.8	1622.2	1534.7	1435.6	1366.8	1372.2	1380.7	1467.0	1575.7	1764.8
27.5°	1847.5	1856.6	1796.2	1699.6	1563.1	1450.1	1436.8	1444.1	1528.0	1609.6	1800.4
30°	2031.7	2038.4	1978.0	1867.5	1700.2	1544.3	1491.2	1495.4	1554.6	1625.9	1836.7
32.5°	2236.5	2231.0	2173.1	2045.6	1858.4	1657.3	1541.9	1540.7	1584.2	1658.5	1888.6
35°	2428.5	2436.4	2374.8	2234.1	2032.3	1796.8	1618.0	1613.2	1647.0	1711.6	1961.7
37.5°	2661.1	2658.7	2585.0	2432.8	2206.9	1930.3	1724.9	1716.5	1728.5	1794.4	2063.7
40°	2827.2	2844.1	2796.4	2654.4	2411.0	2094.5	1849.9	1831.2	1834.2	1896.4	2200.2
42.5°	2963.0	2978.8	2983.6	2893.0	2644.8	2297.5	2005.8	1987.0	1988.9	2077.0	2368.1
45°	3067.5	3088.7	3156.9	3130.3	2908.1	2531.8	2216.5	2197.2	2198.4	2296.3	2571.1
47.5°	3110.4	3133.4	3271.7	3335.1	3187.7	2812.1	2478.7	2450.3	2454.5	2562.6	2803.0
50°	3096.5	3127.3	3314.6	3492.7	3422.1	3097.1	2792.1	2772.2	2755.9	2912.9	3054.9
52.5°	2976.9	3010.8	3310.3	3593.0	3613.5	3366.5	3115.9	3104.4	3100.8	3285.0	3336.3
55°	2624.8	2681.6	3164.8	3619.6	3763.3	3620.2	3466.8	3447.4	3466.2	3683.6	3620.8
57.5°	2429.7	2472.0	2879.7	3590.0	3885.9	3861.7	3817.1	3818.9	3840.0	4116.6	3965.6
60°	2318.6	2368.1	2721.5	3509.0	4003.7	4155.3	4183.7	4183.7	4221.7	4583.5	4315.9
62.5°	2171.3	2221.4	2573.5	3353.2	4112.4	4500.7	4644.5	4642.7	4657.8	5084.2	4658.4
65°	1872.3	1918.8	2276.3	3107.4	4165.5	4881.2	5168.1	5162.7	5132.5	5529.9	4884.9
67.5°	1359.5	1403.6	1743.6	2639.9	3974.1	5188.1	5707.5	5709.9	5529.3	5810.7	4896.9
70°	896.3	926.5	1121.0	1714.7	3231.8	5055.8	5933.3	5940.6	5590.3	5635.6	4358.2
72.5°	559.3	580.4	700.0	1022.5	1909.7	4001.9	5353.5	5373.5	5029.2	4952.5	3580.9
75°	371.4	385.9	465.7	596.1	883.6	2165.8	4069.5	4133.5	4030.9	3882.3	2495.0
77.5°	223.5	235.5	296.5	378.7	391.4	846.2	2375.4	2540.9	2555.4	2026.9	1044.9
80°	102.1	116.0	163.7	216.2	208.4	294.7	837.7	876.4	1034.0	643.8	329.8
82.5°	60.4	66.4	108.7	107.5	88.8	143.1	301.4	309.2	262.7	235.5	140.7
85°	24.2	28.4	45.9	40.5	32.6	46.5	113.5	119.0	114.1	102.7	51.9
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.3	10.9	15.7	28.4	15.7
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°	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5	1382.5
2.5°	1392.7	1389.1	1407.2	1421.1	1427.2	1433.2	1427.8	1426.0	1426.0	1413.9	1407.8
5°	1407.8	1409.7	1434.4	1445.9	1445.9	1441.1	1426.6	1416.3	1412.7	1397.0	1392.7
7.5°	1436.2	1444.1	1467.0	1466.4	1449.5	1422.9	1386.7	1358.9	1333.6	1322.7	1316.0
10°	1482.7	1493.0	1508.7	1483.3	1436.2	1366.2	1289.5	1229.1	1192.8	1163.8	1163.8
12.5°	1535.9	1545.5	1542.5	1483.9	1386.7	1255.6	1145.1	1075.7	1024.9	998.4	998.4
15°	1589.0	1596.9	1564.3	1456.2	1283.4	1108.9	988.1	904.7	860.6	835.9	835.9
17.5°	1642.8	1642.2	1573.3	1392.1	1148.7	946.4	828.0	763.4	748.3	744.1	743.5
20°	1694.7	1680.8	1561.9	1285.2	992.3	782.7	707.8	712.1	734.4	744.1	745.3
22.5°	1753.3	1718.9	1528.0	1148.7	814.7	669.2	674.0	709.1	741.7	756.2	758.0
25°	1813.1	1751.5	1471.3	988.7	666.2	627.5	665.0	704.2	741.1	759.8	761.6
27.5°	1837.3	1751.5	1374.6	803.3	587.1	610.0	651.1	689.1	727.8	749.5	753.7
30°	1857.2	1736.4	1239.3	636.0	554.4	593.1	628.7	663.8	701.8	728.4	733.2
32.5°	1885.0	1723.1	1075.7	534.5	539.3	576.8	601.5	631.1	665.6	683.1	681.3
35°	1917.6	1702.6	878.2	486.2	526.7	562.9	580.4	597.9	582.2	581.6	583.4
37.5°	1964.1	1684.5	706.0	464.4	518.2	553.2	567.7	530.3	508.5	499.5	495.9
40°	2031.1	1677.2	556.9	451.8	517.0	552.6	542.4	484.4	454.8	423.4	422.8
42.5°	2115.7	1671.8	460.2	445.7	521.2	566.5	507.3	454.2	393.2	379.3	378.1
45°	2224.4	1663.3	411.9	444.5	531.5	577.4	503.7	412.5	370.8	364.8	364.8
47.5°	2355.5	1650.0	390.2	444.5	543.0	572.6	492.8	403.4	360.6	367.2	371.4
50°	2505.8	1633.1	378.7	443.3	554.4	572.6	469.9	401.6	358.2	392.6	406.5
52.5°	2666.5	1613.8	370.8	438.5	562.3	573.2	471.1	407.7	360.6	398.6	410.1
55°	2844.1	1610.8	360.0	428.2	564.7	557.5	474.1	421.0	364.2	361.2	361.8
57.5°	3068.1	1647.0	352.1	413.1	555.0	525.4	480.2	430.6	360.0	360.6	364.8
60°	3302.5	1715.3	358.8	398.6	535.1	495.3	484.4	425.8	339.4	329.8	331.0
62.5°	3501.8	1767.2	364.2	392.0	506.1	468.7	480.2	414.9	328.0	325.5	331.0
65°	3585.1	1724.3	350.9	378.1	463.8	436.1	471.1	401.0	318.3	309.2	309.8
67.5°	3492.7	1523.2	324.9	347.3	416.1	394.4	456.6	382.9	305.0	294.1	291.7
70°	2983.6	1119.1	280.2	298.4	358.2	345.5	434.3	359.4	283.9	276.0	270.6
72.5°	2404.4	792.4	232.5	237.4	280.8	291.1	395.6	329.8	259.7	237.4	229.5
75°	1673.6	497.7	193.9	189.0	202.9	222.3	308.6	273.6	224.1	200.5	193.3
77.5°	719.9	255.5	151.6	149.2	135.3	154.0	236.8	228.3	187.8	160.7	156.4
80°	241.0	148.0	109.3	105.1	90.0	108.1	166.7	182.4	147.4	119.0	111.7
82.5°	120.8	85.8	69.5	62.8	60.4	68.2	98.4	113.5	102.1	82.1	69.5
85°	59.2	48.9	38.0	37.4	31.4	29.6	41.1	48.3	45.9	33.8	32.0
87.5°	21.7	19.3	12.1	9.7	6.0	4.2	2.4	2.4	1.8	1.8	1.8
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)