

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: P631337

Luminaire Tested: GWS-SA1F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8409.5 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

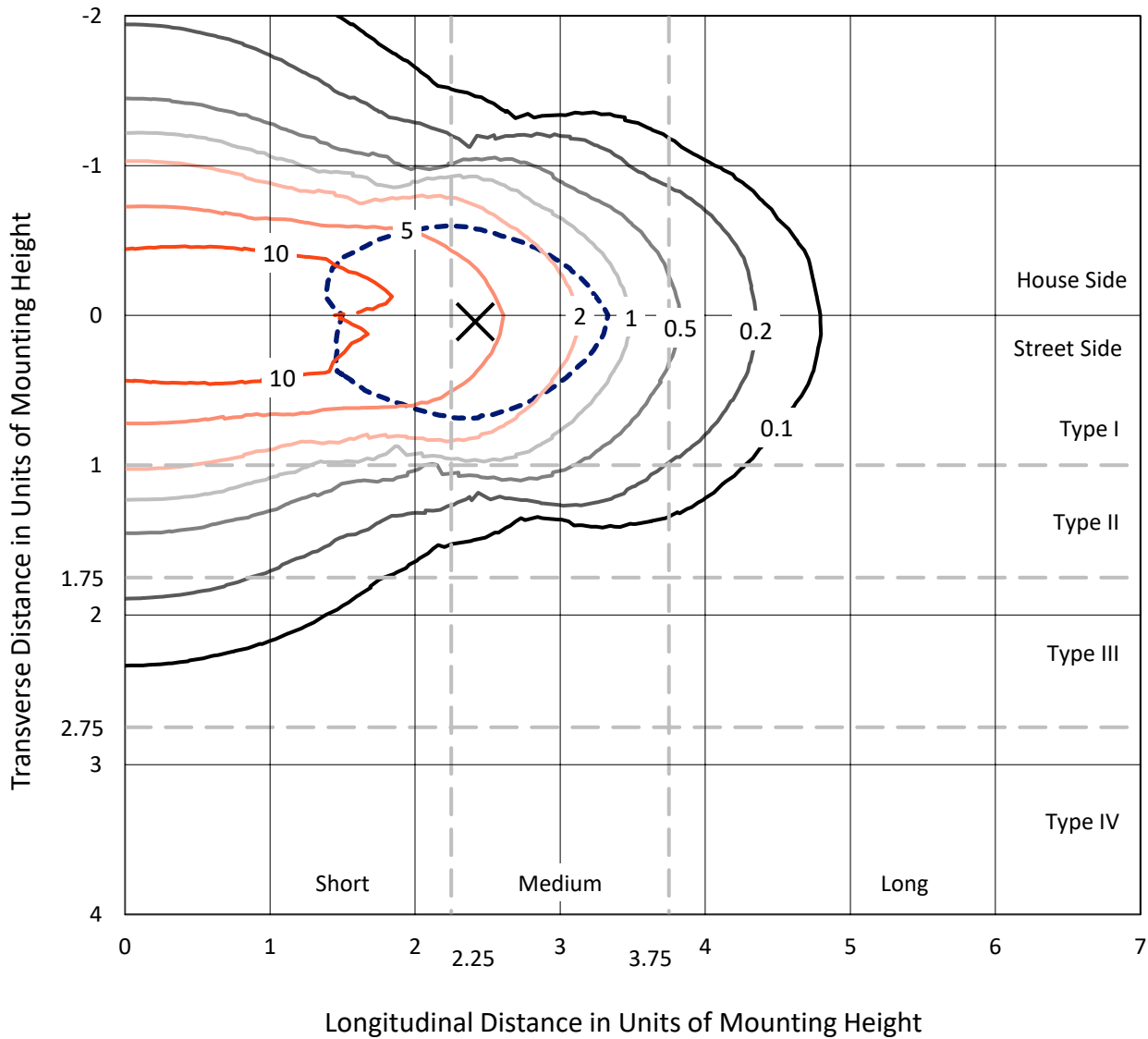
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

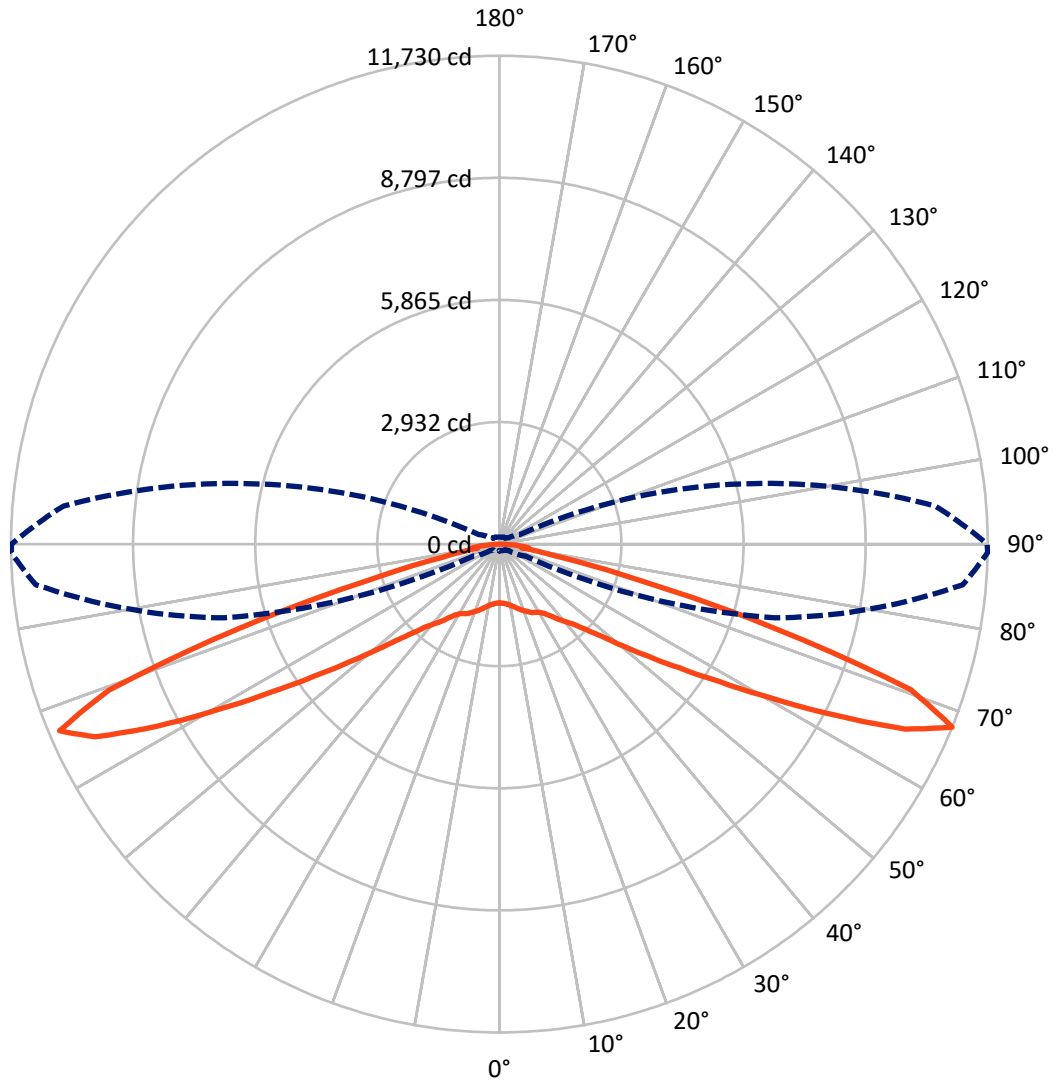
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4167.9	0.0	4167.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4241.6	0.0	4241.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	8409.5	0.0	8409.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.7
10°-20°	461.0	5.5
20°-30°	779.3	9.3
30°-40°	1069.5	12.7
40°-50°	1363.9	16.2
50°-60°	1711.2	20.3
60°-70°	2063.8	24.5
70°-80°	746.6	8.9
80°-90°	72.6	0.9
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°	8409.5	100.0
0°-180°	8409.5	100.0

Coefficient of Utilization



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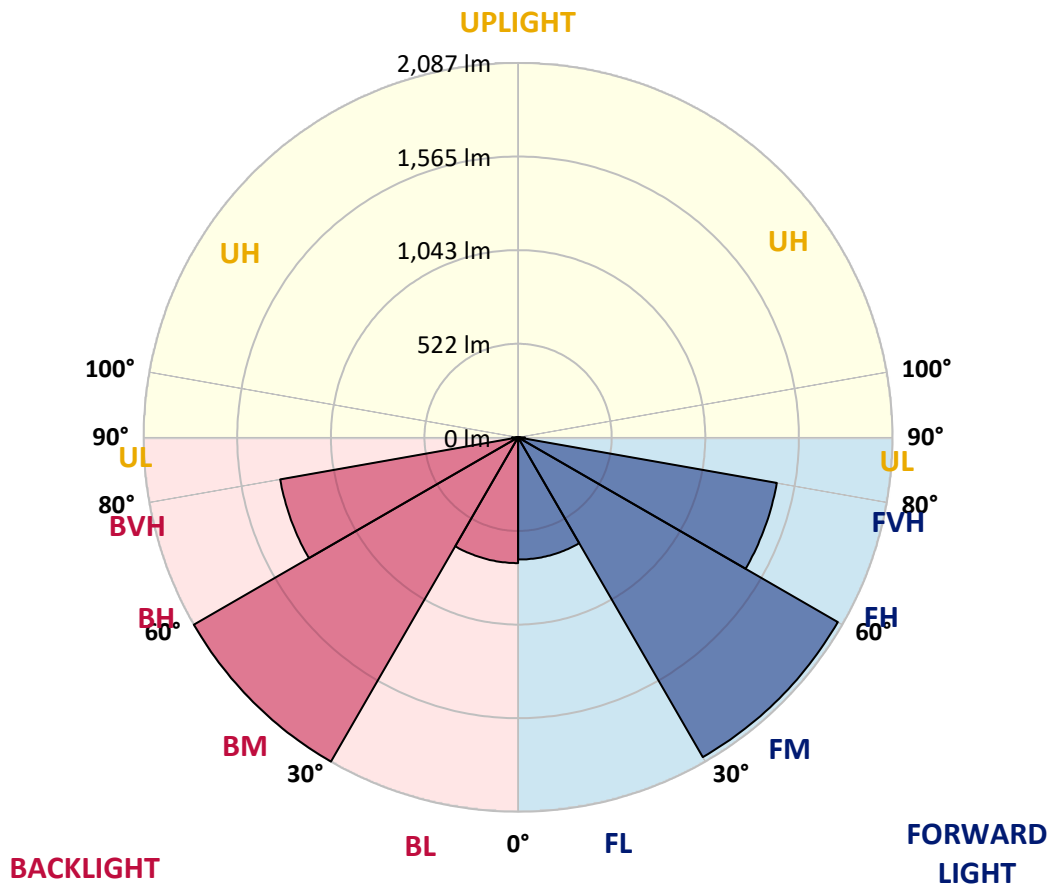
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.1	8.1			
FM (30°-60°)	2058.0	24.5			
FH (60°-80°)	1464.2	17.4			G1/1800
FVH (80°-90°)	38.3	0.5			G1/100
BL (0°-30°)	700.8	8.3	B2/1000		
BM (30°-60°)	2086.6	24.8	B2/2500		
BH (60°-80°)	1346.2	16.0	B3/2500		G3/2500
BVH (80°-90°)	34.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1415.7	1414.5	1411.5	1420.5	1418.7	1419.3	1422.9	1420.5	1416.3	1409.1	1419.3
5°	1455.6	1455.0	1448.3	1453.7	1447.7	1443.5	1442.9	1436.8	1432.0	1424.2	1435.0
7.5°	1494.2	1493.6	1488.2	1497.8	1493.0	1488.2	1482.7	1470.7	1459.2	1447.7	1459.8
10°	1523.8	1523.2	1522.0	1535.9	1537.1	1538.9	1536.5	1516.0	1496.0	1482.1	1494.2
12.5°	1540.7	1542.5	1545.5	1570.9	1583.6	1595.7	1598.7	1581.8	1548.6	1528.6	1543.1
15°	1529.2	1532.9	1548.0	1593.9	1628.9	1656.1	1667.5	1653.7	1610.8	1577.6	1593.9
17.5°	1474.3	1477.3	1506.9	1577.0	1654.3	1717.1	1735.8	1727.3	1679.6	1639.2	1654.9
20°	1398.2	1404.8	1436.8	1534.7	1650.0	1759.4	1809.5	1806.5	1754.5	1692.3	1711.0
22.5°	1329.3	1337.2	1371.0	1479.1	1621.6	1770.2	1883.8	1891.6	1822.8	1745.5	1760.6
25°	1252.0	1259.3	1302.8	1413.3	1572.7	1761.8	1947.2	1982.8	1900.1	1806.5	1820.4
27.5°	1172.9	1178.3	1221.2	1339.0	1508.7	1746.1	1997.3	2083.1	1976.2	1848.7	1858.4
30°	1103.4	1110.7	1149.9	1264.7	1438.6	1714.7	2038.4	2190.0	2063.7	1896.5	1904.3
32.5°	1036.4	1042.4	1085.3	1191.6	1364.4	1666.3	2075.2	2315.6	2193.6	1985.2	1985.2
35°	951.8	962.7	1011.0	1121.6	1294.3	1602.3	2101.8	2461.8	2371.2	2116.3	2116.9
37.5°	873.9	880.0	930.7	1042.4	1220.6	1529.8	2104.2	2613.4	2595.8	2283.0	2284.2
40°	785.2	793.0	847.4	957.9	1136.1	1453.7	2081.3	2754.7	2831.4	2454.5	2447.9
42.5°	695.2	706.6	758.6	866.7	1044.9	1360.7	2020.3	2889.4	3130.4	2653.2	2636.9
45°	608.2	615.4	667.4	769.5	940.4	1249.6	1922.4	3018.6	3485.5	2955.2	2931.6
47.5°	510.4	513.4	567.1	665.0	832.3	1125.8	1782.3	3134.0	3875.6	3355.0	3314.6
50°	423.4	427.6	469.9	553.8	700.0	979.0	1607.8	3201.6	4372.7	3900.4	3830.3
52.5°	342.4	346.7	380.5	447.5	578.6	811.7	1391.5	3185.9	4877.0	4577.5	4475.4
55°	276.6	279.6	302.6	355.1	455.4	645.6	1136.1	3045.2	5436.9	5461.7	5241.8
57.5°	233.7	234.9	250.6	282.7	355.7	497.7	877.0	2713.0	6023.9	6589.9	6228.7
60°	209.0	209.6	216.8	236.8	280.8	379.9	642.6	2183.9	6632.1	8001.3	7506.1
62.5°	193.3	193.3	199.3	210.8	233.1	292.3	472.3	1568.5	7068.8	9537.2	9045.0
65°	178.2	178.2	182.4	192.1	204.1	238.6	354.5	1011.6	7283.2	10821.2	10711.9
67.5°	158.8	159.4	162.5	172.7	183.6	199.3	268.8	684.3	6838.1	11176.4	11729.6
70°	140.7	141.3	145.6	152.2	161.3	172.1	210.2	471.7	4977.3	9308.3	10487.9
72.5°	120.8	123.2	126.2	133.5	138.9	146.8	171.5	305.6	2896.0	5987.7	6932.9
75°	99.1	102.1	105.7	112.9	116.6	119.6	141.3	218.0	1393.3	3034.3	3455.3
77.5°	76.7	79.7	84.0	90.6	93.0	96.6	108.1	157.6	667.4	1345.0	1450.1
80°	51.3	52.5	56.2	64.0	68.2	70.7	79.7	107.5	289.9	539.9	535.1
82.5°	31.4	32.0	33.2	38.0	39.9	42.3	51.9	65.8	138.3	613.6	703.6
85°	11.5	10.9	10.3	13.3	15.7	18.1	24.2	33.2	60.4	421.6	471.7
87.5°	0.0	0.0	0.0	0.6	1.2	1.2	2.4	4.8	14.5	157.6	108.1
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°	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1416.3	1409.7	1418.1	1424.2	1437.4	1442.3	1443.5	1439.2	1439.2	1432.0	1433.2
5°	1432.6	1428.4	1442.3	1452.5	1471.9	1479.1	1483.9	1480.9	1482.7	1477.9	1479.1
7.5°	1457.4	1453.7	1477.9	1497.8	1517.8	1526.2	1530.4	1528.0	1528.6	1522.6	1524.4
10°	1491.8	1493.0	1522.0	1548.0	1574.5	1583.0	1584.8	1577.6	1571.5	1560.6	1561.3
12.5°	1538.9	1544.9	1586.0	1615.0	1642.2	1654.3	1641.0	1614.4	1589.6	1570.9	1568.5
15°	1590.2	1601.1	1660.3	1697.1	1726.7	1720.7	1681.4	1621.6	1572.7	1544.9	1539.5
17.5°	1651.8	1668.2	1742.4	1786.5	1811.9	1773.2	1691.1	1601.7	1533.5	1496.0	1488.8
20°	1709.8	1735.8	1829.4	1886.8	1889.8	1802.8	1686.9	1561.3	1475.5	1429.6	1419.9
22.5°	1763.0	1796.2	1920.6	1993.7	1954.4	1816.1	1660.9	1503.9	1405.4	1351.7	1343.2
25°	1821.0	1868.1	2026.9	2095.2	2019.1	1810.7	1606.5	1432.6	1320.9	1265.9	1259.9
27.5°	1860.8	1920.0	2133.8	2199.0	2072.2	1779.9	1536.5	1354.7	1243.6	1191.6	1183.2
30°	1906.7	1982.2	2251.6	2312.0	2104.8	1734.6	1461.6	1282.2	1171.7	1115.5	1109.5
32.5°	1990.1	2084.9	2397.7	2431.6	2115.1	1678.4	1389.7	1212.2	1096.8	1040.6	1032.2
35°	2124.1	2235.3	2603.1	2565.0	2107.2	1616.8	1321.5	1130.0	1020.1	967.6	959.1
37.5°	2293.3	2431.6	2832.0	2685.2	2085.5	1549.2	1240.5	1061.2	951.2	898.1	893.3
40°	2450.9	2621.2	3088.7	2789.1	2041.4	1465.8	1162.6	989.3	877.0	820.8	809.9
42.5°	2648.4	2874.9	3385.8	2879.1	1968.9	1366.2	1075.1	900.5	783.9	733.2	719.9
45°	2948.6	3230.0	3731.3	2965.5	1860.8	1243.6	965.1	792.4	681.9	629.9	619.7
47.5°	3323.0	3673.9	4105.8	3016.8	1696.5	1114.3	840.7	678.3	567.7	509.1	504.3
50°	3849.1	4319.6	4507.4	3007.7	1512.9	960.9	700.6	542.4	450.0	407.7	401.0
52.5°	4489.9	5130.1	4941.6	2899.0	1317.9	786.4	546.0	425.8	356.9	326.7	321.3
55°	5293.8	6100.7	5398.8	2665.9	1071.4	602.2	428.8	335.8	288.7	270.6	268.2
57.5°	6289.1	7357.5	5839.1	2273.3	805.7	459.6	330.4	277.2	254.9	244.0	243.4
60°	7602.7	8691.7	6221.4	1766.6	576.8	351.5	273.0	247.6	230.1	222.9	222.3
62.5°	9164.6	9903.2	6459.4	1203.1	433.6	280.2	240.4	224.7	214.4	210.2	209.6
65°	10769.9	10669.0	6345.9	788.2	329.2	238.0	215.6	207.2	198.1	193.9	193.9
67.5°	11718.1	10507.2	5474.3	547.2	260.9	209.0	194.5	186.6	171.5	167.9	167.9
70°	10379.1	8514.1	3588.2	400.4	211.4	183.0	169.1	158.2	152.2	148.6	148.0
72.5°	6864.7	5540.2	1907.9	277.8	176.4	155.8	143.1	138.9	131.7	128.0	127.4
75°	3416.6	2909.9	977.8	200.5	146.8	125.0	119.6	117.8	111.7	106.9	105.7
77.5°	1424.2	1295.5	456.0	145.6	111.7	100.9	96.0	96.0	89.4	84.0	81.5
80°	536.9	478.3	215.6	99.7	82.7	74.9	71.9	69.5	64.0	57.4	53.8
82.5°	718.1	469.3	105.7	62.2	54.4	48.3	44.1	42.3	39.3	36.2	33.8
85°	465.1	333.4	47.7	32.0	27.2	20.5	18.1	16.9	15.1	13.3	12.1
87.5°	94.8	111.7	14.5	6.0	3.6	1.8	1.8	0.6	0.0	0.0	0.0
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)