

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: P631383

Luminaire Tested: GWS-SA1F-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

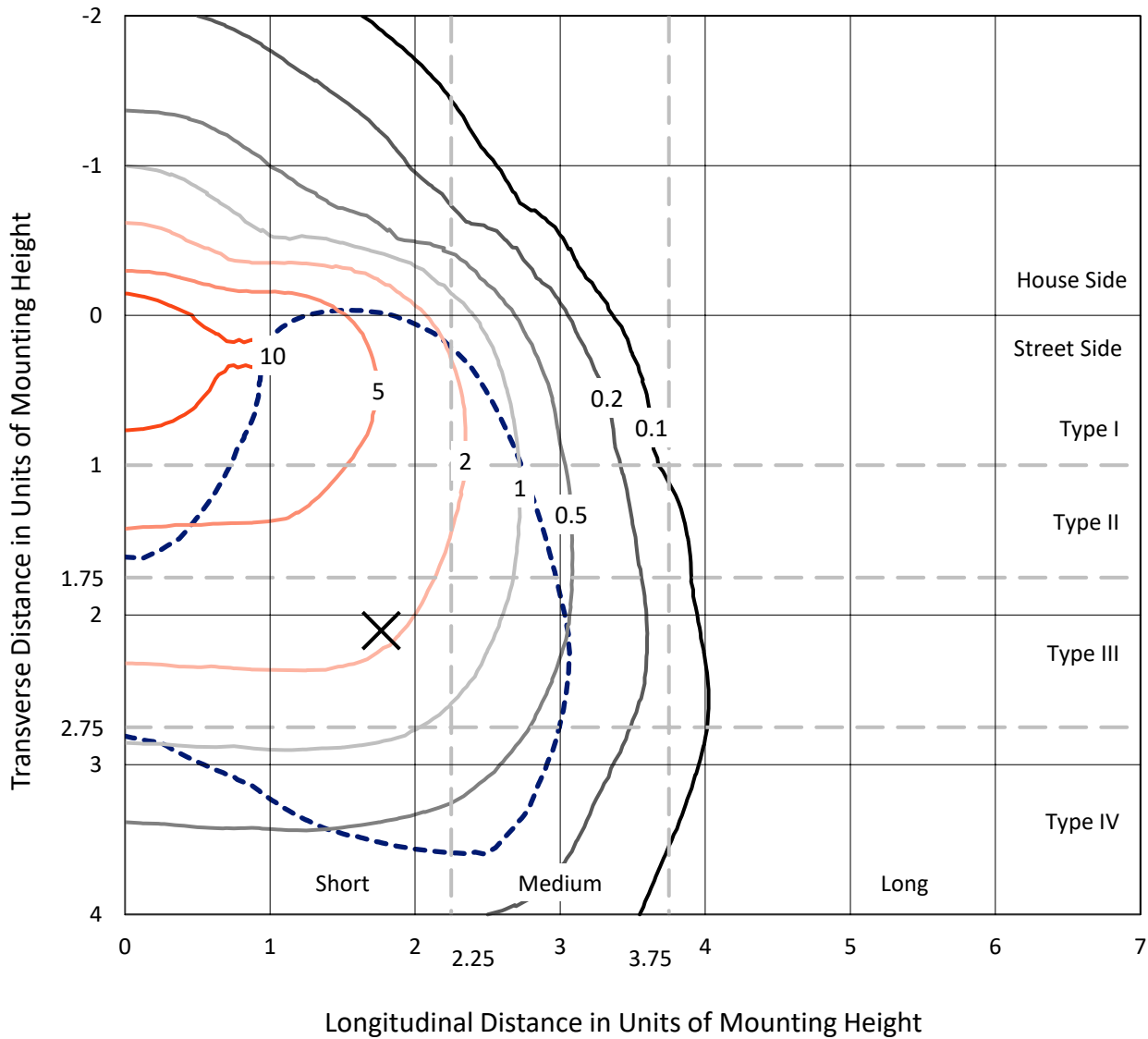
Lumens per Lamp: N/A  
Luminaire Lumens: 8276.6 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

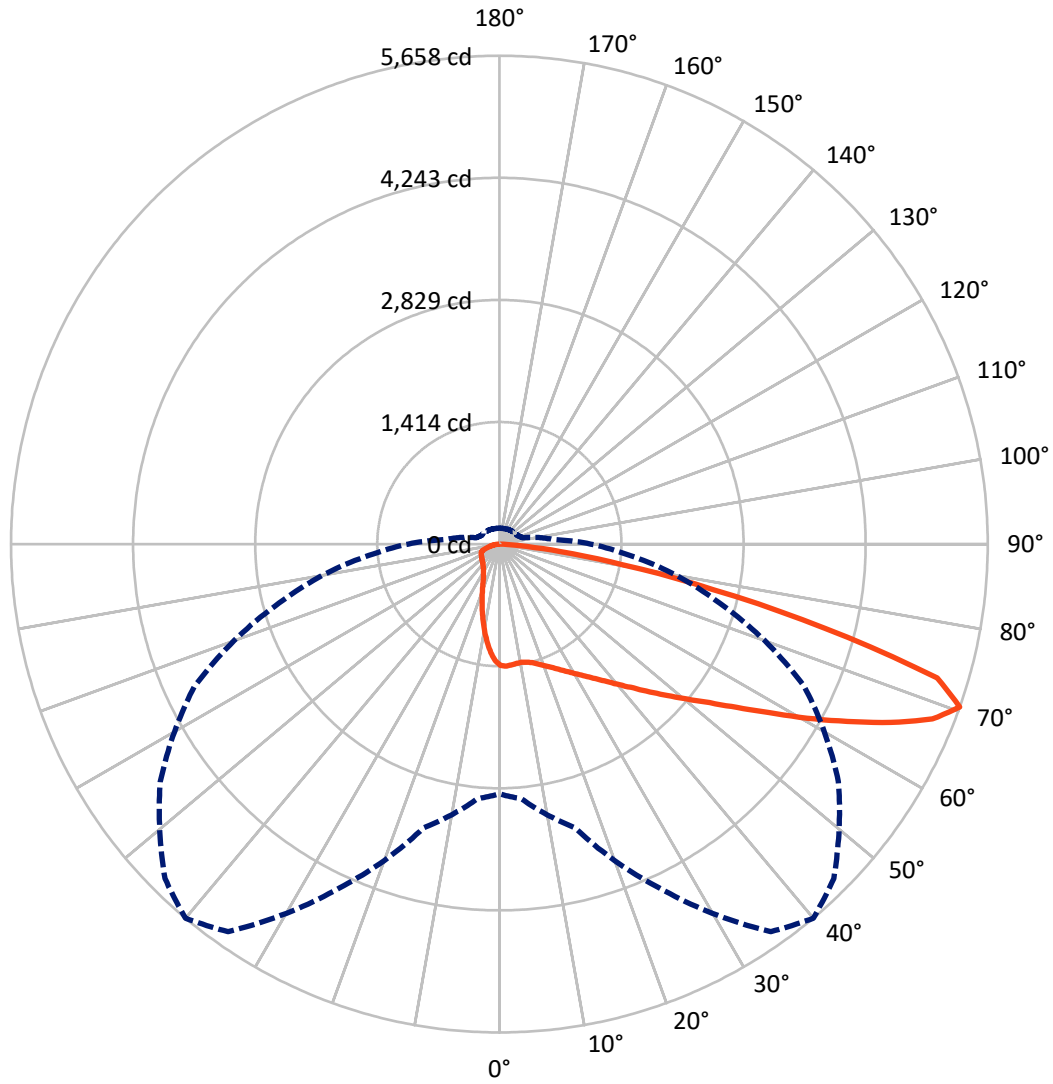
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1274.8	0.0	1274.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	7001.8	0.0	7001.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8276.6	0.0	8276.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	1.5
10°-20°	323.6	3.9
20°-30°	508.2	6.1
30°-40°	764.0	9.2
40°-50°	1179.3	14.2
50°-60°	1751.4	21.2
60°-70°	2207.6	26.7
70°-80°	1276.6	15.4
80°-90°	141.7	1.7
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°	8276.6	100.0
0°-180°	8276.6	100.0

**Coefficient of Utilization**



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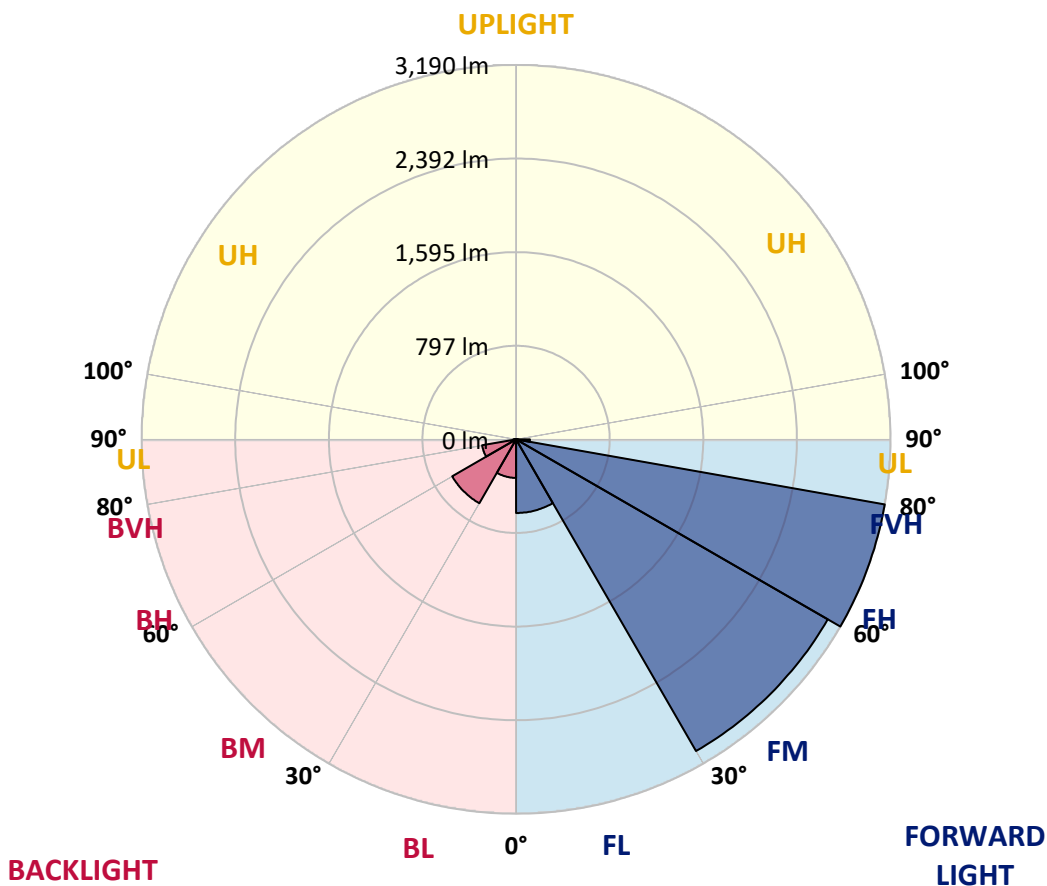
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.4	7.6			
FM (30°-60°)	3066.4	37.0			
FH (60°-80°)	3190.0	38.5			G2/5000
FVH (80°-90°)	118.0	1.4			G2/225
BL (0°-30°)	328.5	4.0	B1/500		
BM (30°-60°)	628.4	7.6	B1/1000		
BH (60°-80°)	294.2	3.6	B1/500		G1/500
BVH (80°-90°)	23.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5
2.5°	1414.1	1416.6	1418.4	1420.9	1419.7	1416.0	1419.1	1419.1	1412.3	1404.8	1398.0
5°	1416.0	1419.1	1418.4	1417.8	1412.9	1406.7	1406.7	1403.0	1391.3	1379.5	1368.4
7.5°	1412.3	1411.6	1411.0	1409.2	1403.6	1396.8	1395.6	1388.2	1372.7	1356.7	1340.6
10°	1395.6	1395.0	1396.8	1401.1	1399.9	1393.7	1393.7	1386.9	1369.0	1349.2	1328.2
12.5°	1382.0	1382.0	1389.4	1401.1	1405.5	1403.0	1403.6	1398.7	1378.3	1354.8	1330.1
15°	1383.8	1384.5	1400.5	1419.7	1427.7	1425.8	1426.5	1420.9	1398.0	1374.6	1341.2
17.5°	1396.2	1399.3	1427.1	1453.6	1464.2	1461.7	1457.4	1448.1	1422.1	1395.6	1354.8
20°	1422.1	1427.1	1462.9	1496.3	1508.6	1503.1	1495.7	1477.1	1448.7	1419.7	1369.6
22.5°	1473.4	1476.5	1516.0	1548.8	1558.7	1551.9	1537.0	1510.5	1477.7	1447.5	1387.5
25°	1545.7	1549.4	1587.1	1617.4	1614.9	1606.9	1586.5	1553.7	1514.8	1482.7	1413.5
27.5°	1631.6	1637.7	1674.8	1698.9	1682.8	1671.1	1648.3	1608.7	1564.9	1535.8	1453.0
30°	1725.5	1727.9	1759.5	1783.5	1758.8	1742.8	1715.0	1672.3	1632.8	1611.2	1512.3
32.5°	1816.3	1818.8	1845.9	1859.5	1833.6	1821.8	1797.8	1752.7	1724.9	1713.1	1600.7
35°	1912.0	1911.4	1933.7	1945.4	1918.8	1913.9	1889.2	1854.6	1849.6	1865.1	1729.8
37.5°	2007.8	2002.2	2014.0	2029.4	2014.6	2019.5	2003.5	1991.7	2010.9	2051.0	1901.5
40°	2084.4	2084.4	2096.8	2115.9	2120.9	2142.5	2133.2	2148.7	2210.4	2306.2	2114.1
42.5°	2152.4	2153.0	2178.9	2208.6	2244.4	2277.8	2285.2	2325.3	2453.2	2603.3	2380.9
45°	2223.4	2224.0	2259.2	2302.5	2378.5	2442.1	2456.9	2547.1	2730.0	2912.9	2670.7
47.5°	2305.6	2298.8	2347.6	2419.9	2528.0	2619.4	2657.7	2785.6	3016.6	3241.5	2943.7
50°	2398.2	2384.0	2438.4	2563.2	2696.6	2822.0	2886.3	3032.7	3324.3	3544.9	3200.7
52.5°	2502.6	2494.6	2551.5	2703.4	2907.3	3051.9	3139.0	3331.1	3623.3	3846.9	3404.6
55°	2632.4	2613.2	2695.4	2888.8	3154.4	3338.5	3441.7	3626.4	3950.1	4121.2	3560.3
57.5°	2774.5	2753.5	2863.4	3120.4	3475.7	3677.7	3806.8	3958.8	4257.8	4331.3	3651.7
60°	2927.7	2920.9	3051.2	3392.3	3858.7	4093.4	4186.7	4324.5	4525.3	4453.0	3628.9
62.5°	3067.9	3065.5	3255.1	3686.9	4264.6	4522.8	4596.9	4633.4	4718.0	4445.0	3447.2
65°	3215.6	3236.6	3493.0	4028.6	4729.8	4983.1	5013.9	4921.3	4782.9	4234.3	3075.3
67.5°	3234.1	3274.9	3642.5	4348.6	5170.9	5409.9	5385.2	5030.6	4591.4	3648.0	2410.6
70°	2892.5	2963.5	3404.0	4397.4	5481.6	5657.7	5479.1	4795.2	3896.4	2642.9	1516.0
72.5°	2416.8	2477.9	2867.1	3750.0	5080.7	5304.9	5063.4	4058.8	2753.5	1516.0	772.2
75°	1881.2	1952.2	2311.1	2980.8	3803.7	3893.3	3772.2	2830.7	1513.6	625.2	350.9
77.5°	1147.8	1199.1	1478.4	2019.5	2661.4	2527.4	2141.9	1587.1	664.1	299.6	216.8
80°	507.8	539.3	728.4	1084.8	1537.7	1453.6	1146.0	677.7	363.3	190.3	151.4
82.5°	272.4	292.8	358.9	429.4	675.2	706.1	572.7	390.4	195.2	108.7	86.5
85°	119.9	131.6	163.1	155.7	221.8	218.1	219.9	268.1	93.3	50.0	56.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	6.8	35.8	9.3	14.8	13.0
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°	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5
2.5°	1390.6	1379.5	1376.4	1372.7	1365.9	1354.2	1345.5	1335.7	1331.3	1326.4	1327.0
5°	1356.0	1342.4	1329.5	1312.8	1291.8	1268.3	1252.3	1233.7	1223.8	1214.6	1217.0
7.5°	1326.4	1305.4	1278.8	1243.6	1205.9	1163.9	1129.9	1103.4	1085.4	1073.1	1079.3
10°	1307.9	1283.1	1236.8	1179.4	1115.7	1051.5	1002.7	956.9	928.5	906.3	905.1
12.5°	1304.1	1272.0	1204.7	1121.3	1029.2	943.4	871.7	809.9	772.2	744.4	754.9
15°	1307.9	1267.1	1176.9	1067.5	951.4	835.2	746.3	675.2	630.1	604.8	603.0
17.5°	1312.2	1262.1	1145.4	1009.5	869.8	737.0	633.8	558.5	512.1	486.8	487.4
20°	1315.9	1254.7	1108.3	945.8	787.1	645.6	538.7	467.0	425.7	407.1	410.2
22.5°	1322.1	1247.3	1068.8	877.9	702.4	557.2	463.3	405.3	380.6	368.2	368.8
25°	1333.8	1243.0	1028.0	803.7	619.0	486.8	411.4	372.5	357.1	349.7	349.0
27.5°	1357.9	1246.7	985.4	732.1	543.7	433.1	378.1	352.8	342.3	337.3	336.7
30°	1398.0	1261.5	948.3	659.2	478.8	391.1	355.2	339.8	333.6	329.3	328.7
32.5°	1459.2	1289.3	908.1	591.2	426.3	360.2	337.3	329.3	325.0	322.5	322.5
35°	1551.9	1340.0	868.6	531.9	385.5	336.1	323.1	320.0	316.3	315.1	316.3
37.5°	1685.3	1420.9	832.8	480.0	356.5	317.5	307.7	308.9	305.8	307.7	309.5
40°	1854.6	1529.0	802.5	437.4	334.8	304.0	294.1	298.4	296.5	298.4	301.5
42.5°	2069.0	1663.1	779.6	404.0	319.4	292.8	283.6	287.9	286.7	289.1	292.2
45°	2308.0	1839.8	769.1	380.6	308.3	284.8	274.9	278.0	276.8	278.6	281.7
47.5°	2537.2	2000.4	778.4	367.0	299.0	278.0	267.5	268.7	268.1	267.5	269.4
50°	2734.9	2128.3	805.0	362.6	292.8	271.2	261.3	261.9	260.1	256.4	257.6
52.5°	2896.2	2230.8	821.0	362.6	289.7	263.8	254.5	255.1	251.4	246.5	247.1
55°	3002.4	2272.2	808.1	362.0	288.5	257.6	247.7	248.3	244.6	238.5	239.1
57.5°	3032.7	2232.1	753.7	355.2	287.3	252.7	240.9	242.2	239.7	232.9	232.9
60°	2948.1	2085.0	654.2	339.8	284.2	249.6	236.0	237.8	236.6	229.8	229.8
62.5°	2726.3	1823.7	535.6	316.3	275.5	245.9	231.7	235.4	238.5	234.8	234.1
65°	2311.1	1461.1	435.5	290.4	264.4	239.7	225.5	234.8	241.6	246.5	246.5
67.5°	1734.1	1045.9	355.2	263.2	247.7	227.3	217.5	226.1	231.1	234.1	236.0
70°	1057.0	615.3	279.9	231.7	223.6	208.8	201.4	192.7	186.0	184.7	185.3
72.5°	517.1	352.1	227.3	197.1	190.9	177.3	160.6	156.9	153.8	152.0	151.4
75°	284.8	245.3	187.8	163.7	152.6	135.9	132.2	126.0	124.8	122.3	122.9
77.5°	201.4	193.4	155.1	132.8	116.1	107.5	109.3	105.0	105.0	103.2	102.6
80°	151.4	152.0	119.2	97.0	85.9	82.8	84.6	84.6	83.4	82.8	82.2
82.5°	95.8	108.1	80.3	62.4	61.2	61.8	61.2	60.5	61.8	59.9	59.3
85°	66.1	77.8	48.8	37.1	37.1	36.4	37.7	37.1	38.3	36.4	36.4
87.5°	14.8	34.6	17.9	11.1	11.7	11.1	11.7	12.4	13.6	14.2	14.2
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)