

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: P631463

Luminaire Tested: GWS-SA1F-760-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631463  
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-760-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

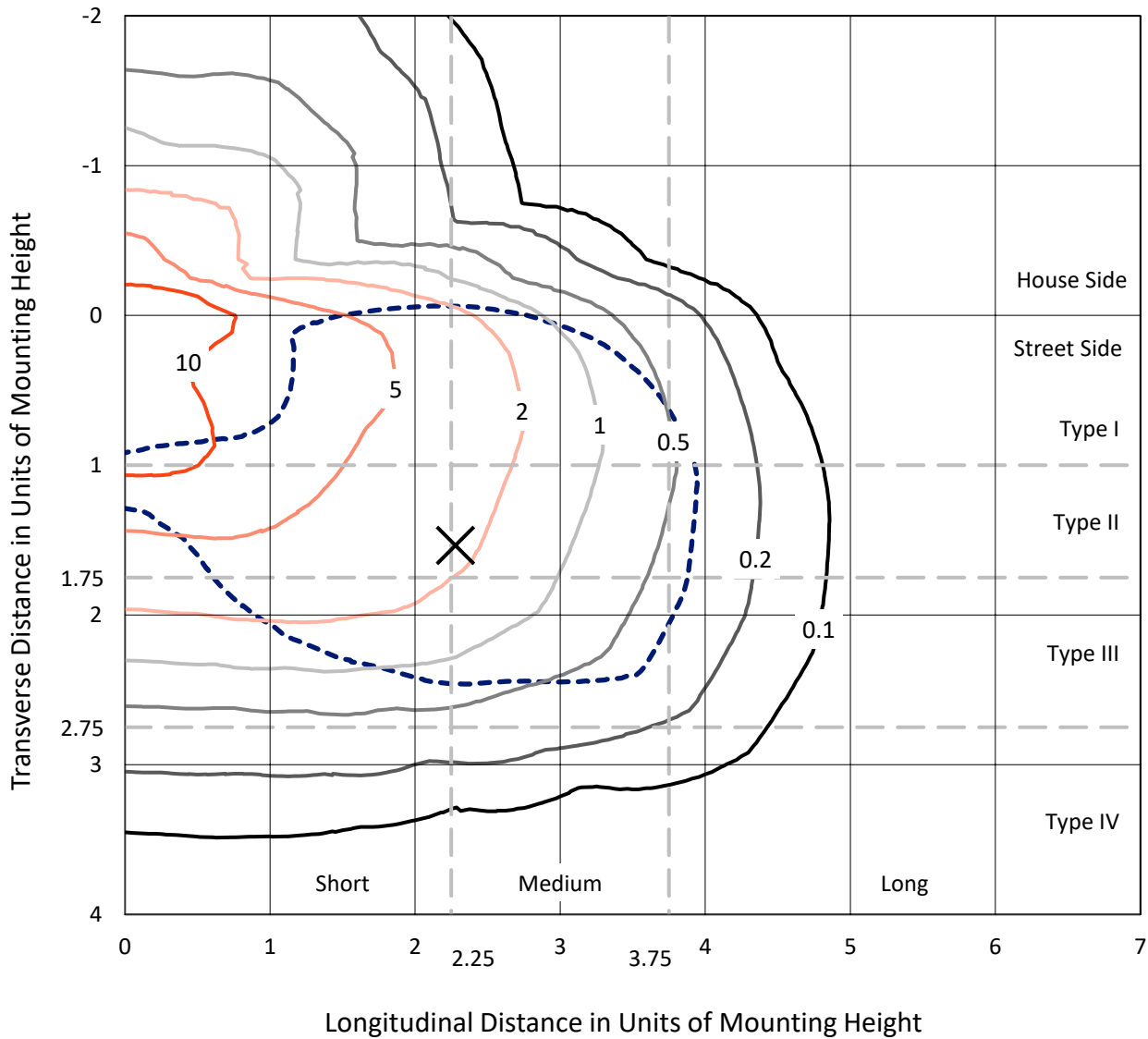
Lumens per Lamp: N/A  
Luminaire Lumens: 8640.9 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

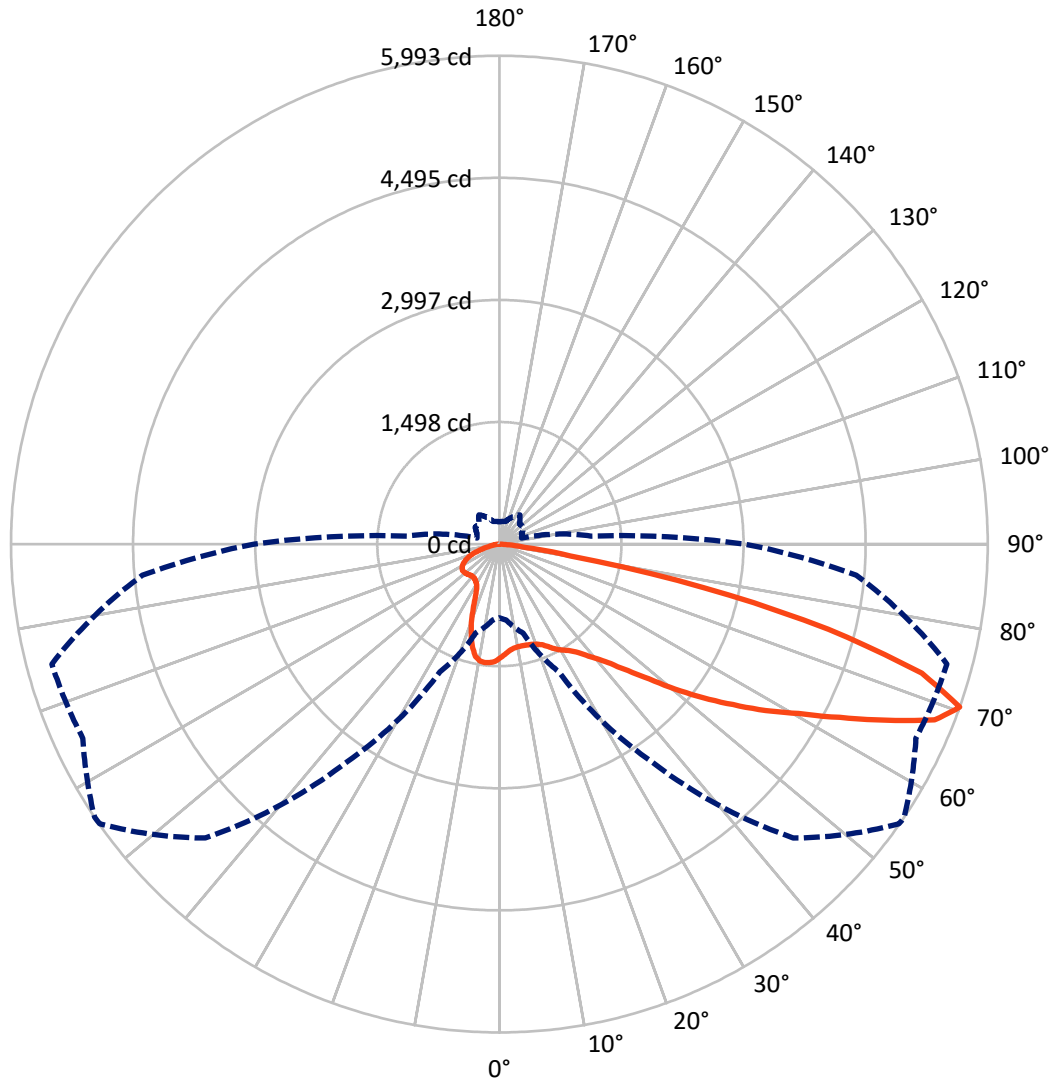
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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
<b>House Side</b>	Lumens	1661.2	0.0	1661.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	6979.7	0.0	6979.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	8640.9	0.0	8640.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	1.5
10°-20°	349.7	4.0
20°-30°	578.2	6.7
30°-40°	864.5	10.0
40°-50°	1286.4	14.9
50°-60°	1828.9	21.2
60°-70°	2265.2	26.2
70°-80°	1250.8	14.5
80°-90°	88.1	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°	8640.9	100.0
0°-180°	8640.9	100.0

**Coefficient of Utilization**



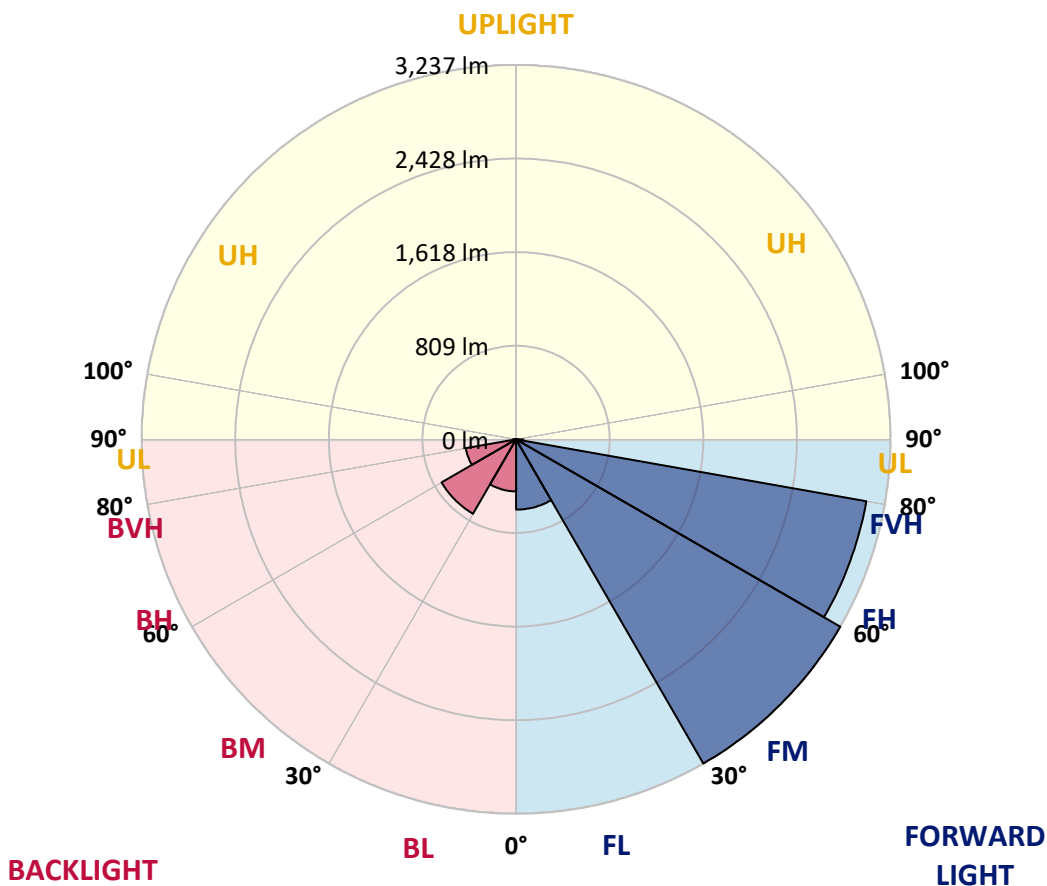
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.3	7.0			
FM (30°-60°)	3236.7	37.5			
FH (60°-80°)	3074.4	35.6			G2/5000
FVH (80°-90°)	61.2	0.7			G1/100
BL (0°-30°)	449.7	5.2	B1/500		
BM (30°-60°)	743.1	8.6	B1/1000		
BH (60°-80°)	441.5	5.1	B1/500		G1/500
BVH (80°-90°)	26.9	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°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1305.2	1297.9	1306.4	1310.7	1321.7	1337.5	1351.5	1352.1	1359.4	1377.1	1394.2
5°	1246.1	1242.4	1244.9	1257.7	1269.3	1289.4	1310.7	1312.5	1333.2	1368.0	1402.1
7.5°	1200.4	1195.5	1204.7	1221.1	1235.7	1258.3	1286.3	1288.7	1318.0	1370.4	1422.8
10°	1134.6	1130.9	1148.0	1169.9	1201.6	1238.8	1276.0	1279.0	1317.4	1386.2	1459.4
12.5°	1105.9	1105.9	1113.3	1134.0	1168.7	1218.1	1274.1	1279.0	1327.1	1410.6	1506.3
15°	1150.4	1153.5	1147.4	1146.2	1160.2	1207.1	1276.6	1283.9	1345.4	1435.6	1552.6
17.5°	1240.0	1243.0	1227.2	1202.2	1188.2	1217.5	1285.7	1293.6	1364.9	1463.0	1602.6
20°	1365.5	1369.2	1334.4	1296.1	1247.9	1247.3	1303.4	1310.7	1389.9	1492.9	1655.6
22.5°	1512.4	1514.8	1470.9	1410.0	1336.3	1302.8	1333.8	1341.2	1422.2	1534.3	1712.8
25°	1682.4	1689.7	1636.7	1548.3	1448.4	1378.9	1384.4	1392.9	1480.1	1589.8	1780.5
27.5°	1864.0	1873.1	1812.2	1714.7	1577.0	1463.0	1449.6	1456.9	1541.6	1623.9	1816.4
30°	2049.8	2056.5	1995.6	1884.1	1715.3	1558.1	1504.5	1508.7	1568.4	1640.3	1853.0
32.5°	2256.4	2250.9	2192.4	2063.8	1874.9	1672.0	1555.6	1554.4	1598.3	1673.2	1905.4
35°	2450.1	2458.1	2395.9	2253.9	2050.4	1812.8	1632.4	1627.5	1661.7	1726.9	1979.1
37.5°	2684.7	2682.3	2608.0	2454.4	2226.5	1947.4	1740.3	1731.7	1743.9	1810.3	2082.1
40°	2852.3	2869.4	2821.2	2678.0	2432.5	2113.2	1866.4	1847.5	1850.6	1913.3	2219.8
42.5°	2989.4	3005.3	3010.1	2918.7	2668.3	2317.9	2023.6	2004.7	2006.5	2095.5	2389.2
45°	3094.8	3116.2	3185.0	3158.2	2934.0	2554.3	2236.3	2216.8	2218.0	2316.7	2594.0
47.5°	3138.1	3161.2	3300.8	3364.8	3216.1	2837.1	2500.7	2472.1	2476.3	2585.4	2827.9
50°	3124.1	3155.2	3344.0	3523.8	3452.5	3124.7	2817.0	2796.9	2780.4	2938.8	3082.0
52.5°	3003.4	3037.5	3339.8	3625.0	3645.7	3396.4	3143.6	3132.0	3128.3	3314.2	3366.0
55°	2648.2	2705.5	3192.9	3651.8	3796.8	3652.4	3497.6	3478.1	3497.0	3716.4	3653.0
57.5°	2451.4	2494.0	2905.3	3621.9	3920.5	3896.1	3851.0	3852.8	3874.2	4153.2	4000.9
60°	2339.2	2389.2	2745.7	3540.3	4039.3	4192.2	4220.9	4220.9	4259.3	4624.3	4354.3
62.5°	2190.6	2241.1	2596.4	3383.0	4149.0	4540.8	4685.8	4684.0	4699.2	5129.4	4699.8
65°	1888.9	1935.9	2296.6	3135.0	4202.6	4924.7	5214.1	5208.6	5178.2	5579.1	4928.3
67.5°	1371.6	1416.1	1759.2	2663.4	4009.4	5234.2	5758.2	5760.7	5578.5	5862.4	4940.5
70°	904.3	934.7	1130.9	1729.9	3260.6	5100.8	5986.1	5993.4	5640.0	5685.7	4397.0
72.5°	564.2	585.6	706.2	1031.6	1926.7	4037.5	5401.2	5421.3	5074.0	4996.6	3612.8
75°	374.7	389.4	469.8	601.4	891.5	2185.1	4105.7	4170.3	4066.7	3916.8	2517.2
77.5°	225.5	237.6	299.2	382.1	394.9	853.7	2396.5	2563.5	2578.1	2044.9	1054.2
80°	103.0	117.0	165.1	218.1	210.2	297.4	845.2	884.1	1043.2	649.6	332.7
82.5°	60.9	67.0	109.7	108.5	89.6	144.4	304.1	312.0	265.1	237.6	142.0
85°	24.4	28.6	46.3	40.8	32.9	46.9	114.6	120.0	115.2	103.6	52.4
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.4	11.0	15.8	28.6	15.8
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°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1405.1	1401.5	1419.8	1433.8	1439.9	1446.0	1440.5	1438.6	1438.6	1426.5	1420.4
5°	1420.4	1422.2	1447.2	1458.8	1458.8	1453.9	1439.3	1428.9	1425.2	1409.4	1405.1
7.5°	1449.0	1456.9	1480.1	1479.5	1462.4	1435.6	1399.0	1371.0	1345.4	1334.4	1327.7
10°	1495.9	1506.3	1522.1	1496.5	1449.0	1378.3	1300.9	1240.0	1203.4	1174.2	1174.2
12.5°	1549.5	1559.3	1556.2	1497.1	1399.0	1266.8	1155.3	1085.2	1034.0	1007.2	1007.2
15°	1603.2	1611.1	1578.2	1469.1	1294.8	1118.7	996.9	912.8	868.3	843.3	843.3
17.5°	1657.4	1656.8	1587.3	1404.5	1159.0	954.8	835.4	770.2	755.0	750.7	750.1
20°	1709.8	1695.8	1575.7	1296.7	1001.1	789.7	714.1	718.4	741.0	750.7	751.9
22.5°	1768.9	1734.2	1541.6	1159.0	822.0	675.1	680.0	715.4	748.3	762.9	764.7
25°	1829.2	1767.1	1484.3	997.5	672.1	633.1	670.9	710.5	747.7	766.5	768.4
27.5°	1853.6	1767.1	1386.9	810.4	592.3	615.4	656.9	695.3	734.3	756.2	760.5
30°	1873.7	1751.8	1250.4	641.6	559.4	598.4	634.3	669.7	708.1	734.9	739.7
32.5°	1901.7	1738.4	1085.2	539.3	544.1	581.9	606.9	636.8	671.5	689.2	687.3
35°	1934.6	1717.7	886.0	490.5	531.3	567.9	585.6	603.2	587.4	586.8	588.6
37.5°	1981.6	1699.4	712.3	468.6	522.8	558.2	572.8	535.0	513.1	503.9	500.3
40°	2049.2	1692.1	561.8	455.8	521.6	557.5	547.2	488.7	458.8	427.1	426.5
42.5°	2134.5	1686.6	464.3	449.7	525.9	571.6	511.8	458.2	396.7	382.7	381.4
45°	2244.2	1678.1	415.6	448.5	536.2	582.5	508.2	416.2	374.1	368.0	368.0
47.5°	2376.4	1664.7	393.6	448.5	547.8	577.7	497.2	407.0	363.8	370.5	374.7
50°	2528.1	1647.6	382.1	447.3	559.4	577.7	474.1	405.2	361.3	396.1	410.1
52.5°	2690.2	1628.2	374.1	442.4	567.3	578.3	475.3	411.3	363.8	402.2	413.7
55°	2869.4	1625.1	363.2	432.0	569.7	562.4	478.3	424.7	367.4	364.4	365.0
57.5°	3095.4	1661.7	355.2	416.8	560.0	530.1	484.4	434.5	363.2	363.8	368.0
60°	3331.9	1730.5	361.9	402.2	539.9	499.7	488.7	429.6	342.4	332.7	333.9
62.5°	3532.9	1782.9	367.4	395.5	510.6	472.8	484.4	418.6	330.9	328.4	333.9
65°	3617.0	1739.7	354.0	381.4	468.0	439.9	475.3	404.6	321.1	312.0	312.6
67.5°	3523.8	1536.7	327.8	350.4	419.8	397.9	460.7	386.3	307.7	296.7	294.3
70°	3010.1	1129.1	282.7	301.0	361.3	348.5	438.1	362.6	286.4	278.5	273.0
72.5°	2425.8	799.5	234.6	239.5	283.3	293.7	399.1	332.7	262.0	239.5	231.5
75°	1688.5	502.1	195.6	190.7	204.7	224.2	311.4	276.0	226.1	202.3	195.0
77.5°	726.3	257.7	152.9	150.5	136.5	155.4	238.9	230.3	189.5	162.1	157.8
80°	243.1	149.3	110.3	106.0	90.8	109.1	168.2	184.0	148.7	120.0	112.7
82.5°	121.9	86.5	70.1	63.4	60.9	68.9	99.3	114.6	103.0	82.9	70.1
85°	59.7	49.4	38.4	37.8	31.7	29.9	41.4	48.7	46.3	34.1	32.3
87.5°	21.9	19.5	12.2	9.7	6.1	4.3	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)