

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: P633610

Luminaire Tested: GWS-SA2F-722-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11542.2 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

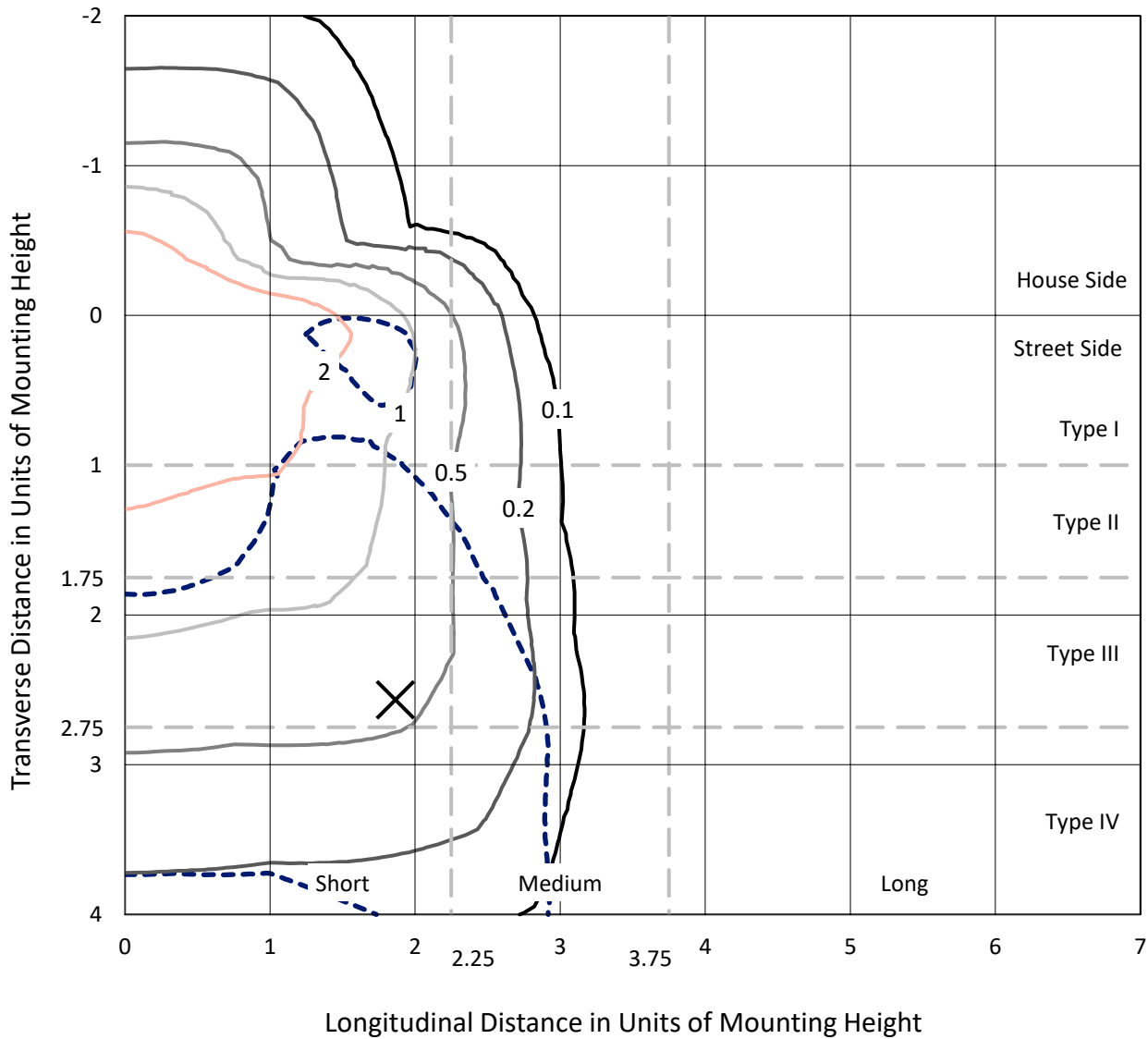
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

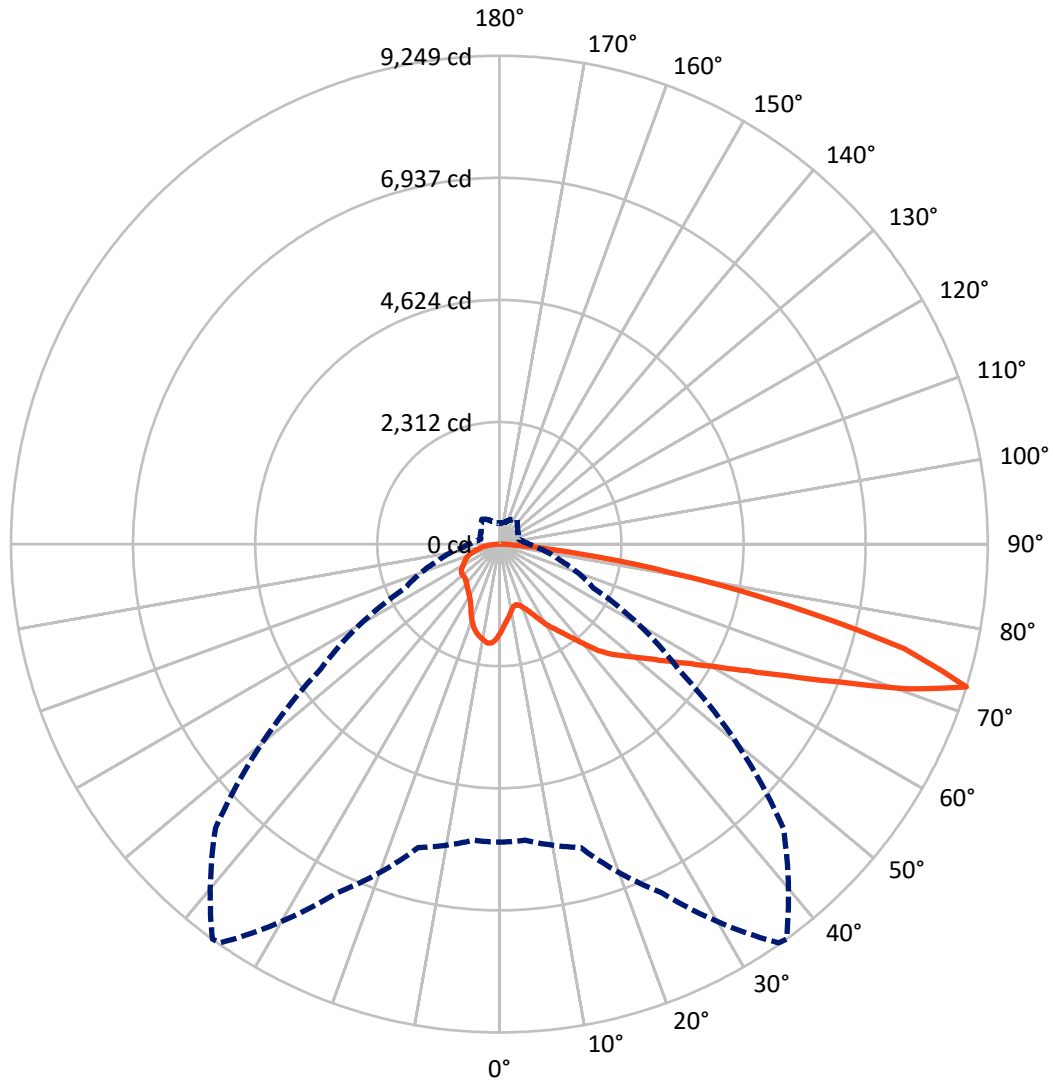
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2661.0	0.0	2661.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8881.2	0.0	8881.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	11542.2	0.0	11542.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.4
10°-20°	445.5	3.9
20°-30°	737.8	6.4
30°-40°	1104.9	9.6
40°-50°	1612.0	14.0
50°-60°	2294.3	19.9
60°-70°	2898.7	25.1
70°-80°	2065.6	17.9
80°-90°	225.5	2.0
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°	11542.2	100.0
0°-180°	11542.2	100.0

Coefficient of Utilization



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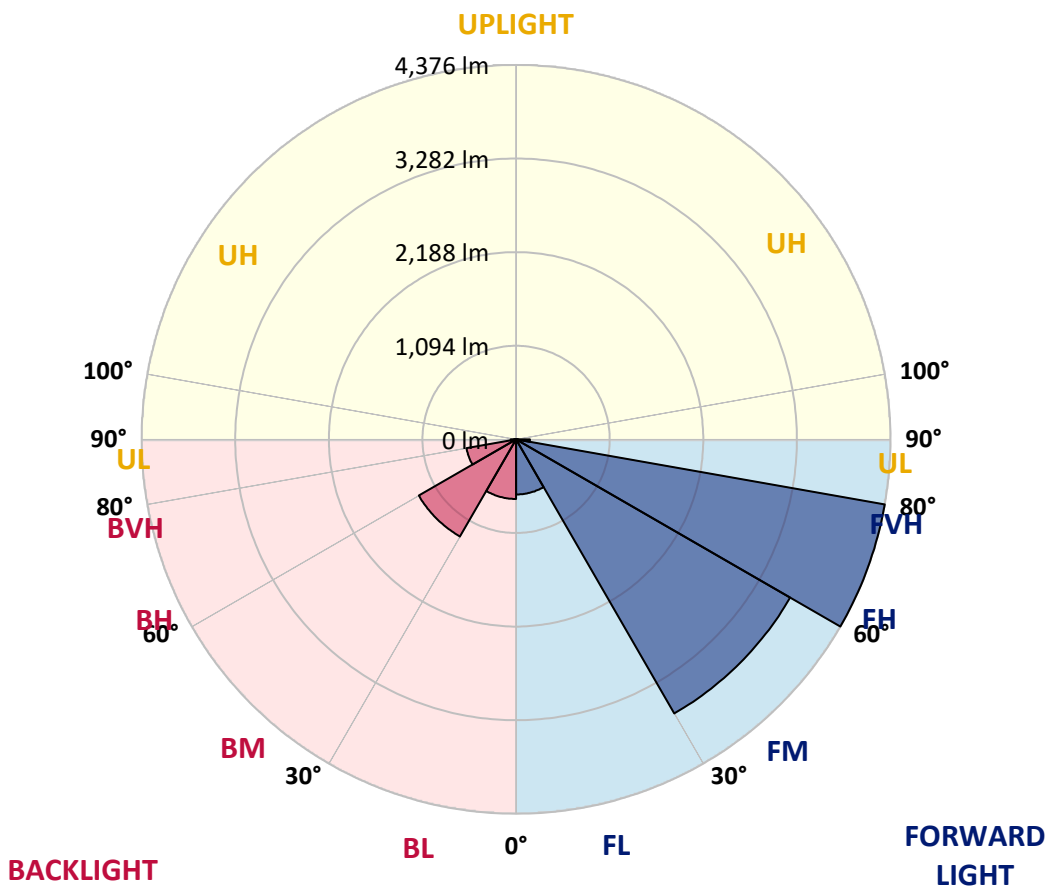
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.4	5.6			
FM (30°-60°)	3699.0	32.0			
FH (60°-80°)	4376.0	37.9			G2/5000
FVH (80°-90°)	161.8	1.4			G2/225
BL (0°-30°)	696.8	6.0	B2/1000		
BM (30°-60°)	1312.2	11.4	B2/2500		
BH (60°-80°)	588.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	63.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3
2.5°	1541.1	1538.5	1533.3	1548.8	1564.2	1562.5	1583.9	1604.4	1626.7	1649.8	1680.7
5°	1417.7	1416.0	1411.7	1434.8	1458.0	1457.1	1492.2	1525.6	1571.0	1620.7	1682.4
7.5°	1294.4	1290.1	1296.1	1325.2	1357.7	1361.2	1409.1	1464.0	1529.9	1604.4	1691.8
10°	1185.6	1184.7	1187.3	1219.8	1268.7	1272.1	1333.8	1410.0	1497.4	1596.7	1713.2
12.5°	1157.3	1155.6	1148.7	1165.0	1201.8	1207.0	1274.6	1368.0	1475.1	1601.0	1742.4
15°	1203.5	1199.3	1175.3	1167.6	1185.6	1189.8	1247.2	1343.2	1462.2	1608.7	1779.2
17.5°	1283.2	1280.6	1235.2	1203.5	1215.5	1219.0	1261.8	1338.9	1458.8	1624.1	1824.6
20°	1399.7	1388.6	1317.5	1269.5	1269.5	1274.6	1300.3	1357.7	1463.1	1643.0	1876.0
22.5°	1553.9	1531.6	1431.4	1366.3	1349.2	1356.0	1367.2	1404.9	1481.1	1674.7	1940.2
25°	1726.9	1706.4	1587.3	1495.7	1471.7	1474.2	1464.8	1471.7	1520.5	1718.4	2019.9
27.5°	1911.1	1897.4	1770.6	1654.1	1616.4	1616.4	1583.0	1566.8	1575.3	1768.1	2109.0
30°	2075.6	2056.7	1949.7	1822.0	1772.3	1772.3	1709.0	1673.8	1653.3	1828.9	2228.1
32.5°	2162.1	2151.0	2079.9	1982.2	1921.4	1912.0	1857.1	1816.0	1768.1	1918.8	2389.1
35°	2275.2	2272.6	2229.8	2153.5	2076.4	2062.7	2025.0	1992.5	1909.4	2031.0	2603.3
37.5°	2417.4	2413.1	2406.2	2360.8	2268.3	2265.8	2232.3	2192.9	2085.0	2192.9	2862.8
40°	2576.7	2569.0	2560.4	2559.6	2503.9	2494.5	2491.9	2447.4	2296.6	2388.3	3133.5
42.5°	2796.0	2769.4	2688.9	2724.9	2766.0	2757.5	2790.0	2723.2	2560.4	2620.4	3389.6
45°	3065.8	3000.7	2841.4	2851.7	2955.3	2972.5	3085.5	3069.3	2850.8	2888.5	3659.5
47.5°	3227.7	3171.2	3023.0	3014.4	3143.8	3165.2	3411.1	3441.9	3163.5	3211.5	3992.7
50°	3360.5	3321.1	3199.5	3211.5	3348.5	3369.9	3734.0	3800.0	3458.2	3542.1	4379.9
52.5°	3520.7	3464.2	3369.9	3426.5	3594.4	3620.1	4092.9	4164.0	3723.7	3905.3	4780.8
55°	3610.6	3587.5	3589.2	3675.8	3886.5	3921.6	4469.0	4457.0	3967.0	4216.3	5082.3
57.5°	3818.0	3809.4	3888.2	3920.7	4227.4	4272.8	4845.0	4742.2	4188.0	4457.0	5227.1
60°	4183.7	4162.3	4230.8	4280.5	4648.9	4713.1	5264.8	5021.5	4337.9	4636.0	5178.3
62.5°	4697.7	4671.1	4673.7	4752.5	5213.4	5281.1	5731.6	5254.5	4384.2	4663.4	4869.0
65°	5336.7	5298.2	5254.5	5361.6	5962.9	6019.5	6239.6	5424.1	4273.7	4399.6	4223.1
67.5°	6010.9	5979.2	5927.8	6152.2	6933.5	6967.7	6809.3	5409.5	3923.3	3693.7	2962.2
70°	6050.3	6058.0	6301.3	7113.4	8200.4	8209.0	7348.1	5116.6	3177.2	2394.3	1476.0
72.5°	5644.3	5631.4	5948.4	7289.0	9219.8	9248.9	7602.5	4145.2	1963.4	1194.1	692.1
75°	4584.6	4606.9	4940.1	6377.5	7902.3	7928.0	6197.6	2443.9	932.9	584.2	442.9
77.5°	1973.7	2097.9	2754.9	4493.0	5659.7	5580.0	3194.3	990.3	497.7	416.3	339.2
80°	569.7	618.5	981.7	2136.4	3391.4	3331.4	1264.4	370.9	346.9	312.7	243.3
82.5°	184.2	203.9	359.8	850.6	1519.6	1517.9	479.7	219.3	227.0	212.4	156.8
85°	51.4	59.1	110.5	257.8	470.3	460.9	138.8	103.7	120.8	122.5	78.0
87.5°	0.0	0.0	0.9	1.7	1.7	1.7	3.4	15.4	35.1	44.5	31.7
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°	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3	1689.3
2.5°	1699.5	1697.0	1732.1	1759.5	1785.2	1802.3	1807.5	1810.9	1817.7	1821.2	1817.7
5°	1711.5	1724.4	1782.6	1825.5	1859.7	1880.3	1881.1	1879.4	1884.6	1880.3	1877.7
7.5°	1737.2	1762.1	1835.7	1881.1	1903.4	1904.3	1883.7	1859.7	1847.7	1837.4	1834.0
10°	1771.5	1808.3	1888.8	1918.8	1912.0	1880.3	1834.9	1797.2	1775.8	1760.4	1756.9
12.5°	1818.6	1859.7	1936.0	1935.1	1892.3	1835.7	1782.6	1737.2	1706.4	1688.4	1682.4
15°	1863.1	1915.4	1970.2	1930.0	1862.3	1793.8	1725.2	1664.4	1623.3	1595.0	1589.9
17.5°	1918.0	1973.7	1995.1	1913.7	1824.6	1736.4	1644.7	1565.0	1509.4	1476.0	1473.4
20°	1981.4	2031.0	2007.1	1885.4	1775.8	1660.1	1535.9	1446.8	1386.9	1354.3	1356.9
22.5°	2055.0	2091.0	2010.5	1846.9	1708.1	1552.2	1413.4	1327.8	1287.5	1270.4	1271.2
25°	2133.8	2157.0	2004.5	1794.6	1604.4	1420.3	1287.5	1248.1	1244.7	1240.4	1242.1
27.5°	2227.2	2222.1	1986.5	1720.9	1464.8	1266.9	1199.3	1209.5	1223.3	1221.5	1223.3
30°	2352.3	2303.4	1963.4	1619.0	1298.6	1138.4	1147.0	1176.1	1194.1	1195.8	1201.0
32.5°	2495.3	2393.4	1926.5	1480.2	1140.2	1066.5	1098.2	1133.3	1154.7	1159.0	1165.9
35°	2665.8	2496.2	1861.4	1307.2	1026.2	1023.7	1052.8	1076.8	1099.9	1101.6	1101.6
37.5°	2862.0	2599.0	1757.8	1116.2	956.0	986.8	1014.2	1019.4	1025.4	1020.2	1022.8
40°	3041.9	2698.3	1610.4	942.3	898.6	954.3	977.4	960.3	941.4	928.6	931.1
42.5°	3192.6	2766.0	1415.1	820.6	840.3	925.1	943.1	908.0	871.2	847.2	850.6
45°	3362.2	2828.6	1185.6	738.4	790.7	904.6	916.6	871.2	824.1	788.1	782.9
47.5°	3596.1	2956.2	981.7	681.0	755.5	893.5	913.2	851.5	789.8	735.8	729.8
50°	3884.8	3136.9	811.2	643.3	739.3	887.5	912.3	830.1	756.4	693.0	688.7
52.5°	4200.0	3313.4	685.3	614.2	723.0	869.5	908.0	806.1	721.3	652.7	647.6
55°	4409.9	3382.8	600.5	586.8	696.4	841.2	890.9	782.9	668.2	605.6	597.9
57.5°	4471.6	3293.7	541.4	561.9	662.2	801.8	858.3	734.1	635.6	585.9	579.9
60°	4365.3	3069.3	504.5	541.4	624.5	751.3	801.8	705.9	609.9	565.4	561.1
62.5°	4065.5	2723.2	476.3	520.0	585.9	698.1	765.8	671.6	581.6	546.5	540.5
65°	3462.5	2233.2	453.2	497.7	549.1	647.6	726.4	637.3	550.8	524.3	517.4
67.5°	2421.7	1568.5	428.3	471.1	512.3	598.8	685.3	605.6	519.1	499.4	492.6
70°	1183.8	831.8	398.3	440.3	472.9	549.1	644.2	567.1	477.1	466.0	456.6
72.5°	563.7	465.1	363.2	398.3	418.9	483.1	575.6	511.4	427.5	403.5	387.2
75°	377.8	330.7	316.9	348.6	353.8	405.2	493.4	441.2	376.9	349.5	335.8
77.5°	286.1	252.7	266.4	294.7	284.4	333.2	406.0	393.2	340.1	315.2	308.4
80°	201.3	184.2	211.6	228.7	221.0	283.5	365.8	336.7	280.1	252.7	247.6
82.5°	126.8	123.4	155.9	158.5	161.0	224.4	300.7	264.7	217.6	179.0	166.2
85°	63.4	70.2	93.4	93.4	92.5	115.6	171.3	149.1	117.4	93.4	90.8
87.5°	21.4	30.0	40.3	32.6	24.8	19.7	22.3	27.4	29.1	28.3	28.3
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)