

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: P636580

Luminaire Tested: GWS-SA4B-722-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636580
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-SA4B-722-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10298.3 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

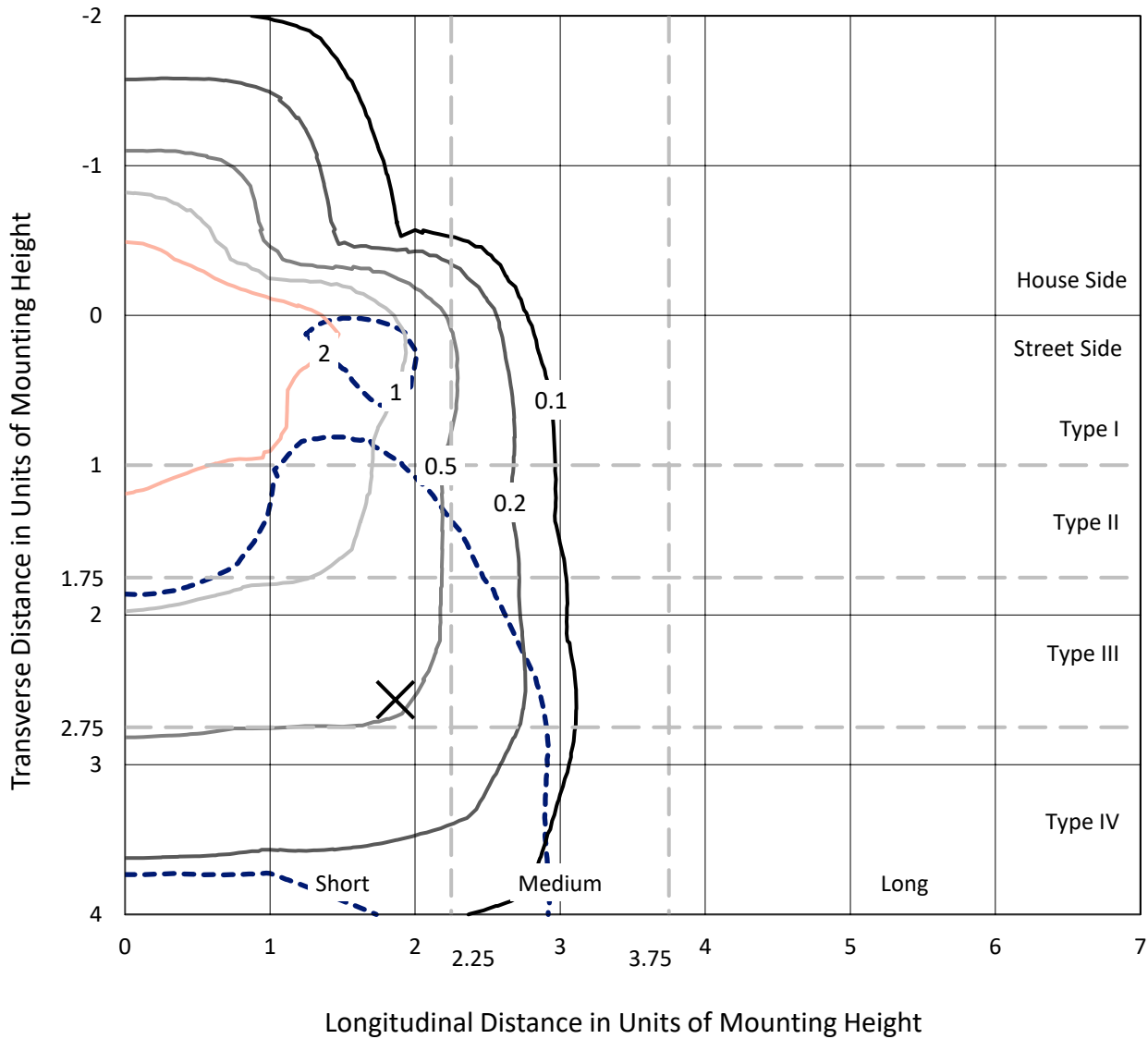
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

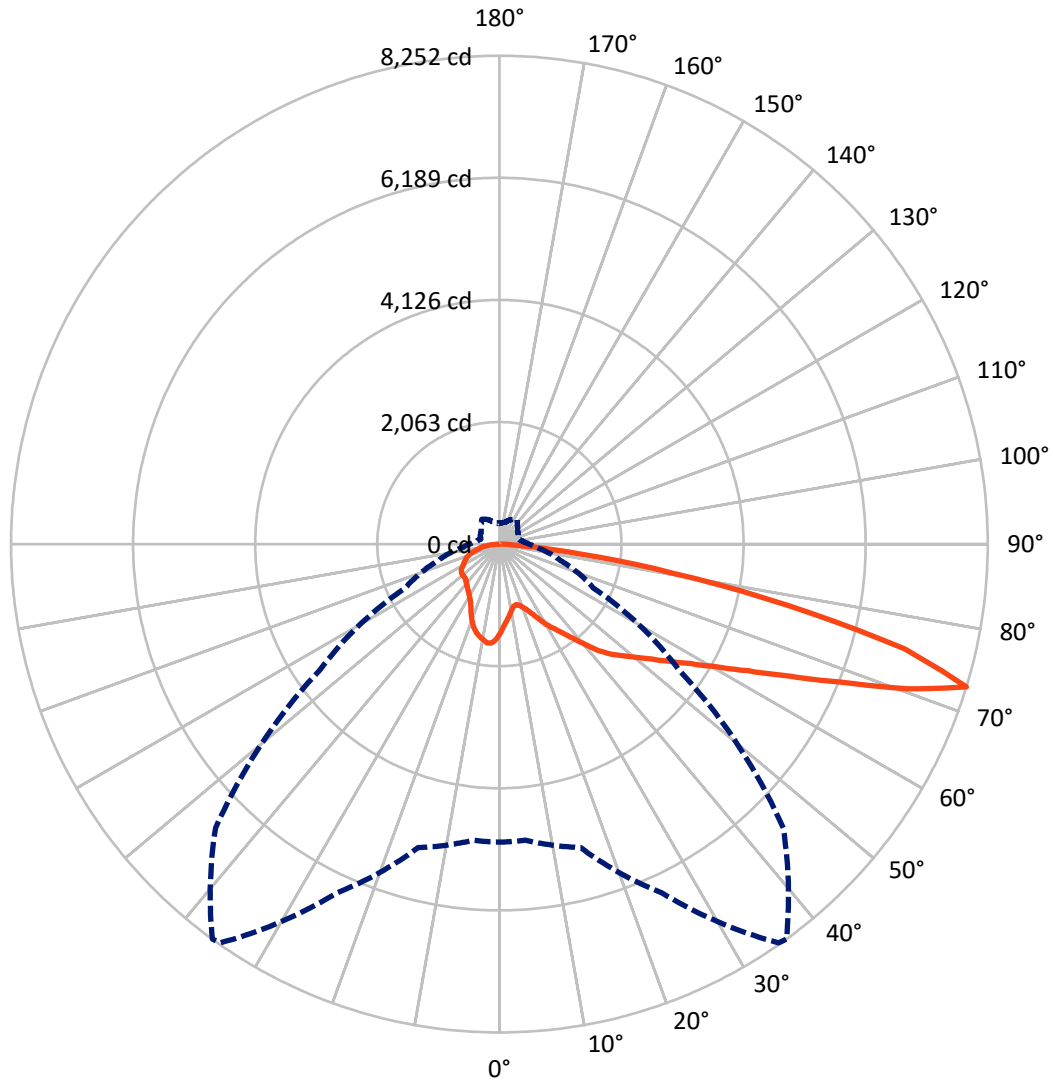
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2374.2	0.0	2374.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	7924.1	0.0	7924.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	10298.3	0.0	10298.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	1.4
10°-20°	397.5	3.9
20°-30°	658.3	6.4
30°-40°	985.8	9.6
40°-50°	1438.3	14.0
50°-60°	2047.1	19.9
60°-70°	2586.3	25.1
70°-80°	1843.0	17.9
80°-90°	201.2	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°	10298.3	100.0
0°-180°	10298.3	100.0

Coefficient of Utilization



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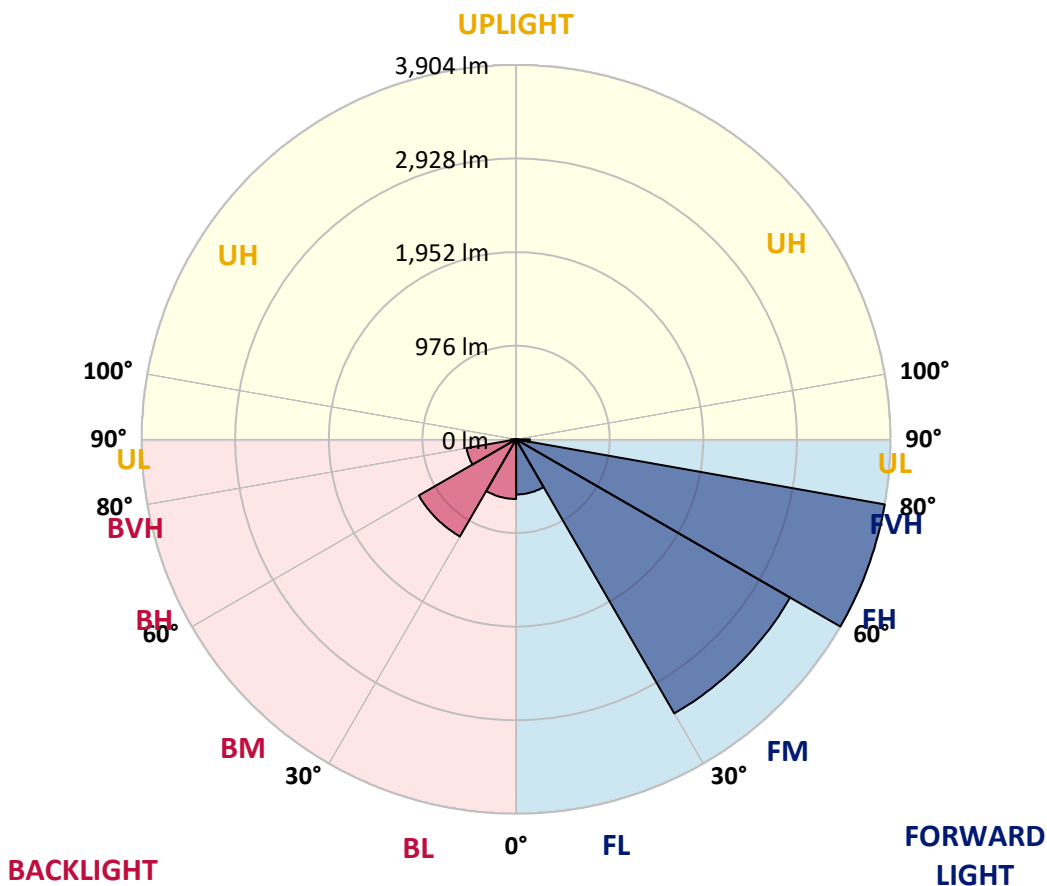
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.9	5.6			
FM (30°-60°)	3300.3	32.0			
FH (60°-80°)	3904.4	37.9			G2/5000
FVH (80°-90°)	144.4	1.4			G2/225
BL (0°-30°)	621.7	6.0	B2/1000		
BM (30°-60°)	1170.8	11.4	B2/2500		
BH (60°-80°)	524.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	56.8	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°	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2
2.5°	1375.0	1372.7	1368.1	1381.9	1395.6	1394.1	1413.2	1431.5	1451.4	1472.0	1499.6
5°	1264.9	1263.4	1259.6	1280.2	1300.8	1300.1	1331.4	1361.2	1401.7	1446.1	1501.1
7.5°	1154.9	1151.0	1156.4	1182.4	1211.4	1214.5	1257.3	1306.2	1365.0	1431.5	1509.5
10°	1057.8	1057.0	1059.3	1088.4	1131.9	1135.0	1190.0	1258.0	1336.0	1424.7	1528.6
12.5°	1032.6	1031.0	1024.9	1039.4	1072.3	1076.9	1137.3	1220.6	1316.1	1428.5	1554.6
15°	1073.8	1070.0	1048.6	1041.7	1057.8	1061.6	1112.8	1198.4	1304.7	1435.4	1587.5
17.5°	1144.9	1142.6	1102.1	1073.8	1084.5	1087.6	1125.8	1194.6	1301.6	1449.1	1628.0
20°	1248.9	1238.9	1175.5	1132.7	1132.7	1137.3	1160.2	1211.4	1305.4	1465.9	1673.8
22.5°	1386.4	1366.6	1277.1	1219.1	1203.8	1209.9	1219.8	1253.5	1321.5	1494.2	1731.1
25°	1540.8	1522.5	1416.3	1334.5	1313.1	1315.4	1307.0	1313.1	1356.6	1533.2	1802.2
27.5°	1705.2	1692.9	1579.8	1475.9	1442.2	1442.2	1412.4	1397.9	1405.6	1577.5	1881.7
30°	1851.9	1835.1	1739.5	1625.7	1581.3	1581.3	1524.8	1493.4	1475.1	1631.8	1987.9
32.5°	1929.1	1919.2	1855.7	1768.6	1714.3	1705.9	1657.0	1620.3	1577.5	1712.0	2131.6
35°	2030.0	2027.7	1989.5	1921.5	1852.7	1840.4	1806.8	1777.8	1703.6	1812.2	2322.7
37.5°	2156.9	2153.0	2146.9	2106.4	2023.9	2021.6	1991.8	1956.6	1860.3	1956.6	2554.3
40°	2299.0	2292.1	2284.5	2283.7	2234.1	2225.6	2223.4	2183.6	2049.1	2130.9	2795.8
42.5°	2494.7	2471.0	2399.1	2431.2	2467.9	2460.3	2489.3	2429.7	2284.5	2338.0	3024.3
45°	2735.4	2677.3	2535.2	2544.4	2636.8	2652.1	2753.0	2738.5	2543.6	2577.2	3265.1
47.5°	2879.9	2829.4	2697.2	2689.6	2805.0	2824.1	3043.4	3071.0	2822.6	2865.4	3562.4
50°	2998.4	2963.2	2854.7	2865.4	2987.7	3006.8	3331.6	3390.4	3085.5	3160.4	3907.9
52.5°	3141.3	3090.8	3006.8	3057.2	3207.0	3229.9	3651.8	3715.3	3322.4	3484.5	4265.6
55°	3221.5	3200.9	3202.4	3279.6	3467.6	3499.0	3987.4	3976.7	3539.5	3761.9	4534.6
57.5°	3406.5	3398.8	3469.2	3498.2	3771.8	3812.3	4322.9	4231.2	3736.7	3976.7	4663.8
60°	3732.8	3713.7	3774.9	3819.2	4147.9	4205.2	4697.4	4480.3	3870.4	4136.4	4620.2
62.5°	4191.4	4167.7	4170.0	4240.3	4651.5	4711.9	5113.9	4688.2	3911.7	4160.9	4344.3
65°	4761.6	4727.2	4688.2	4783.8	5320.3	5370.7	5567.2	4839.6	3813.1	3925.5	3768.0
67.5°	5363.1	5334.8	5289.0	5489.2	6186.3	6216.8	6075.4	4826.6	3500.5	3295.7	2643.0
70°	5398.3	5405.1	5622.2	6346.8	7316.7	7324.3	6556.2	4565.2	2834.8	2136.2	1316.9
72.5°	5036.0	5024.5	5307.3	6503.4	8226.2	8252.2	6783.2	3698.5	1751.8	1065.4	617.6
75°	4090.5	4110.4	4407.7	5690.2	7050.7	7073.6	5529.7	2180.6	832.3	521.3	395.1
77.5°	1761.0	1871.8	2458.0	4008.8	5049.7	4978.7	2850.1	883.5	444.1	371.5	302.7
80°	508.3	551.8	875.9	1906.2	3025.9	2972.4	1128.1	330.9	309.5	279.0	217.1
82.5°	164.3	181.9	321.0	759.0	1355.9	1354.3	428.0	195.7	202.5	189.5	139.9
85°	45.9	52.7	98.6	230.1	419.6	411.2	123.8	92.5	107.8	109.3	69.6
87.5°	0.0	0.0	0.8	1.5	1.5	1.5	3.1	13.8	31.3	39.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2	1507.2
2.5°	1516.4	1514.1	1545.4	1569.9	1592.8	1608.1	1612.7	1615.7	1621.8	1624.9	1621.8
5°	1527.1	1538.5	1590.5	1628.7	1659.3	1677.6	1678.4	1676.9	1681.5	1677.6	1675.3
7.5°	1550.0	1572.2	1637.9	1678.4	1698.3	1699.0	1680.7	1659.3	1648.6	1639.4	1636.4
10°	1580.6	1613.4	1685.3	1712.0	1705.9	1677.6	1637.1	1603.5	1584.4	1570.6	1567.6
12.5°	1622.6	1659.3	1727.3	1726.6	1688.3	1637.9	1590.5	1550.0	1522.5	1506.4	1501.1
15°	1662.4	1709.0	1757.9	1722.0	1661.6	1600.4	1539.3	1485.0	1448.4	1423.1	1418.5
17.5°	1711.3	1761.0	1780.1	1707.4	1628.0	1549.2	1467.5	1396.4	1346.7	1316.9	1314.6
20°	1767.8	1812.2	1790.8	1682.2	1584.4	1481.2	1370.4	1290.9	1237.4	1208.4	1210.7
22.5°	1833.6	1865.7	1793.8	1647.8	1524.0	1384.9	1261.1	1184.7	1148.7	1133.5	1134.2
25°	1903.9	1924.5	1788.5	1601.2	1431.5	1267.2	1148.7	1113.6	1110.5	1106.7	1108.2
27.5°	1987.2	1982.6	1772.4	1535.5	1307.0	1130.4	1070.0	1079.2	1091.4	1089.9	1091.4
30°	2098.8	2055.2	1751.8	1444.5	1158.7	1015.8	1023.4	1049.4	1065.4	1067.0	1071.6
32.5°	2226.4	2135.5	1718.9	1320.7	1017.3	951.6	979.8	1011.2	1030.3	1034.1	1040.2
35°	2378.5	2227.2	1660.8	1166.3	915.6	913.3	939.3	960.7	981.4	982.9	982.9
37.5°	2553.5	2318.9	1568.3	995.9	853.0	880.5	904.9	909.5	914.9	910.3	912.6
40°	2714.0	2407.5	1436.9	840.7	801.8	851.4	872.1	856.8	840.0	828.5	830.8
42.5°	2848.6	2467.9	1262.6	732.2	749.8	825.4	841.5	810.2	777.3	755.9	759.0
45°	2999.9	2523.7	1057.8	658.8	705.5	807.1	817.8	777.3	735.3	703.2	698.6
47.5°	3208.5	2637.6	875.9	607.6	674.1	797.2	814.7	759.7	704.7	656.5	651.2
50°	3466.1	2798.9	723.8	574.0	659.6	791.8	814.0	740.6	674.9	618.3	614.5
52.5°	3747.4	2956.3	611.4	548.0	645.1	775.8	810.2	719.2	643.5	582.4	577.8
55°	3934.6	3018.2	535.8	523.5	621.4	750.5	794.9	698.6	596.2	540.4	533.5
57.5°	3989.7	2938.7	483.0	501.4	590.8	715.4	765.8	655.0	567.1	522.8	517.4
60°	3894.9	2738.5	450.2	483.0	557.2	670.3	715.4	629.8	544.2	504.4	500.6
62.5°	3627.4	2429.7	425.0	463.9	522.8	622.9	683.3	599.2	519.0	487.6	482.3
65°	3089.3	1992.5	404.3	444.1	489.9	577.8	648.1	568.6	491.4	467.8	461.6
67.5°	2160.7	1399.4	382.2	420.4	457.1	534.2	611.4	540.4	463.2	445.6	439.5
70°	1056.3	742.1	355.4	392.9	421.9	489.9	574.8	506.0	425.7	415.8	407.4
72.5°	502.9	415.0	324.1	355.4	373.7	431.1	513.6	456.3	381.4	360.0	345.5
75°	337.1	295.0	282.8	311.1	315.7	361.5	440.2	393.6	336.3	311.8	299.6
77.5°	255.3	225.5	237.7	262.9	253.7	297.3	362.3	350.8	303.4	281.3	275.1
80°	179.6	164.3	188.8	204.1	197.2	253.0	326.4	300.4	249.9	225.5	220.9
82.5°	113.1	110.1	139.1	141.4	143.7	200.2	268.3	236.2	194.1	159.7	148.3
85°	56.6	62.7	83.3	83.3	82.5	103.2	152.9	133.0	104.7	83.3	81.0
87.5°	19.1	26.8	35.9	29.0	22.2	17.6	19.9	24.5	26.0	25.2	25.2
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)