

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: P632950

Luminaire Tested: GWS-SA2D-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632950
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-SA2D-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11378.4 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

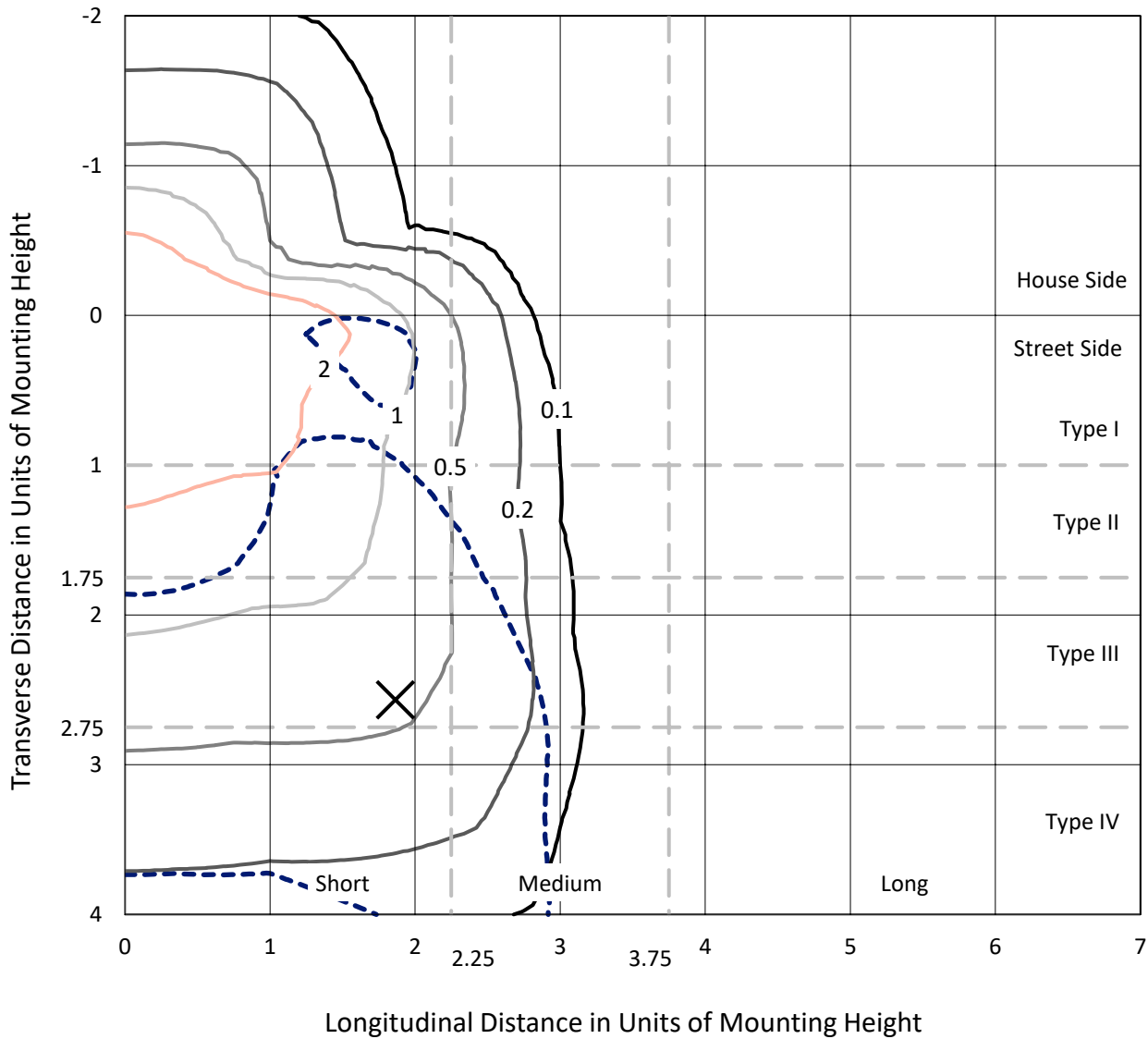
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

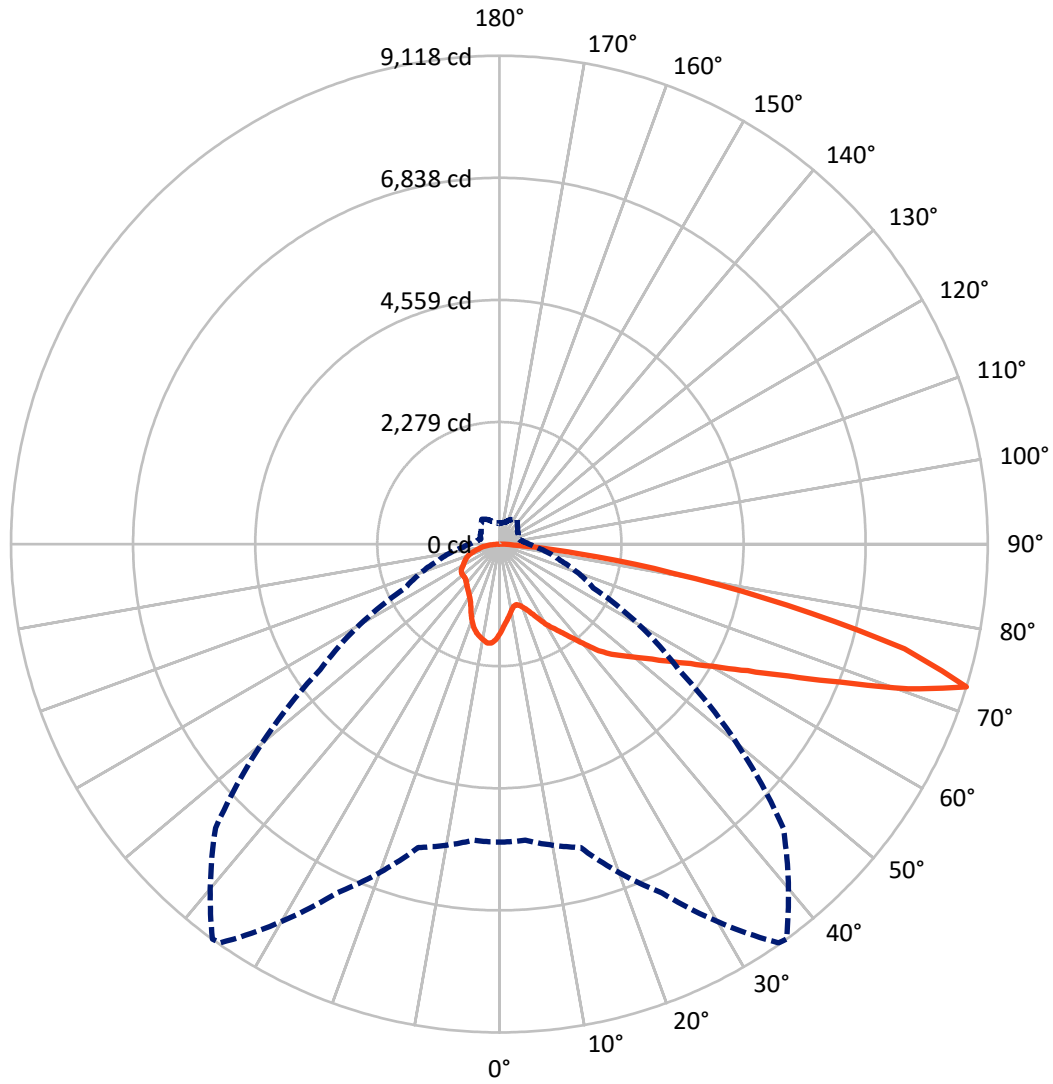
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	2623.2	0.0	2623.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8755.2	0.0	8755.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	11378.4	0.0	11378.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.4
10°-20°	439.2	3.9
20°-30°	727.3	6.4
30°-40°	1089.2	9.6
40°-50°	1589.1	14.0
50°-60°	2261.8	19.9
60°-70°	2857.6	25.1
70°-80°	2036.3	17.9
80°-90°	222.3	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°	11378.4	100.0
0°-180°	11378.4	100.0

Coefficient of Utilization



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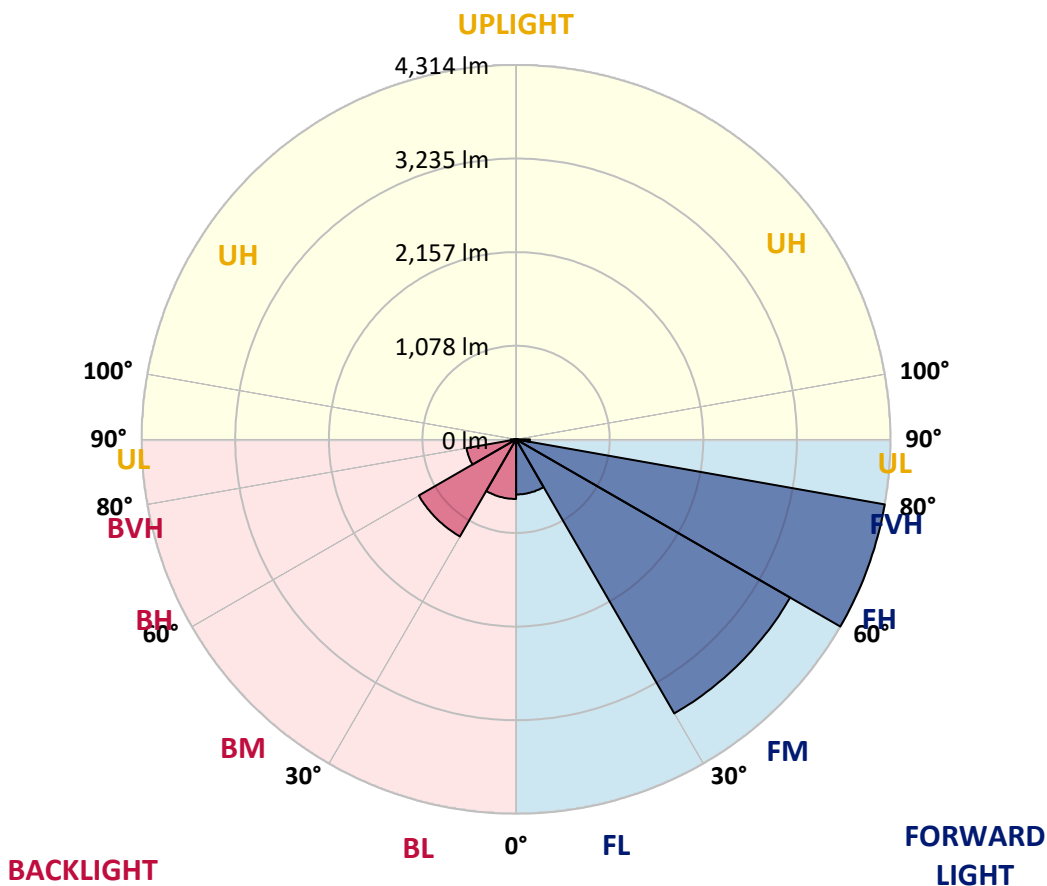
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.2	5.6			
FM (30°-60°)	3646.5	32.0			
FH (60°-80°)	4313.9	37.9			G2/5000
FVH (80°-90°)	159.6	1.4			G2/225
BL (0°-30°)	686.9	6.0	B2/1000		
BM (30°-60°)	1293.6	11.4	B2/2500		
BH (60°-80°)	579.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	62.7	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°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
2.5°	1519.2	1516.7	1511.6	1526.8	1542.0	1540.3	1561.4	1581.7	1603.6	1626.4	1656.8
5°	1397.6	1395.9	1391.7	1414.5	1437.3	1436.4	1471.1	1504.0	1548.7	1597.7	1658.5
7.5°	1276.0	1271.8	1277.7	1306.4	1338.5	1341.9	1389.1	1443.2	1508.2	1581.7	1667.8
10°	1168.7	1167.9	1170.4	1202.5	1250.6	1254.0	1314.8	1390.0	1476.1	1574.1	1688.9
12.5°	1140.9	1139.2	1132.4	1148.5	1184.8	1189.8	1256.6	1348.6	1454.2	1578.3	1717.6
15°	1186.5	1182.2	1158.6	1151.0	1168.7	1173.0	1229.5	1324.1	1441.5	1585.9	1753.9
17.5°	1265.0	1262.5	1217.7	1186.5	1198.3	1201.7	1243.9	1319.9	1438.1	1601.1	1798.7
20°	1379.9	1368.9	1298.8	1251.5	1251.5	1256.6	1281.9	1338.5	1442.3	1619.7	1849.4
22.5°	1531.9	1509.9	1411.1	1346.9	1330.0	1336.8	1347.8	1384.9	1460.1	1650.9	1912.7
25°	1702.4	1682.2	1564.8	1474.4	1450.8	1453.3	1444.0	1450.8	1498.9	1694.0	1991.2
27.5°	1884.0	1870.5	1745.5	1630.7	1593.5	1593.5	1560.6	1544.5	1553.0	1743.0	2079.1
30°	2046.1	2027.6	1922.0	1796.2	1747.2	1747.2	1684.7	1650.1	1629.8	1802.9	2196.4
32.5°	2131.4	2120.4	2050.4	1954.1	1894.1	1884.8	1830.8	1790.3	1743.0	1891.6	2355.2
35°	2242.9	2240.4	2198.1	2123.0	2047.0	2033.5	1996.3	1964.2	1882.3	2002.2	2566.3
37.5°	2383.1	2378.9	2372.1	2327.3	2236.1	2233.6	2200.7	2161.8	2055.4	2161.8	2822.2
40°	2540.1	2532.5	2524.1	2523.3	2468.4	2459.1	2456.5	2412.6	2264.0	2354.4	3089.0
42.5°	2756.3	2730.1	2650.8	2686.2	2726.8	2718.3	2750.4	2684.5	2524.1	2583.2	3341.5
45°	3022.3	2958.2	2801.1	2811.2	2913.4	2930.3	3041.8	3025.7	2810.4	2847.5	3607.5
47.5°	3181.9	3126.2	2980.1	2971.7	3099.2	3120.3	3362.6	3393.0	3118.6	3165.9	3936.0
50°	3312.8	3274.0	3154.1	3165.9	3301.0	3322.1	3681.0	3746.0	3409.1	3491.9	4317.7
52.5°	3470.7	3415.0	3322.1	3377.8	3543.4	3568.7	4034.8	4104.9	3670.9	3849.9	4712.9
55°	3559.4	3536.6	3538.3	3623.6	3831.3	3865.9	4405.6	4393.7	3910.7	4156.4	5010.2
57.5°	3763.8	3755.3	3833.0	3865.1	4167.4	4212.2	4776.3	4674.9	4128.6	4393.7	5152.9
60°	4124.4	4103.2	4170.8	4219.8	4582.9	4646.2	5190.1	4950.2	4276.4	4570.2	5104.8
62.5°	4631.0	4604.9	4607.4	4685.1	5139.4	5206.1	5650.3	5179.9	4322.0	4597.3	4799.9
65°	5261.0	5223.0	5179.9	5285.5	5878.3	5934.0	6151.1	5347.1	4213.0	4337.2	4163.2
67.5°	5925.6	5894.3	5843.7	6064.9	6835.1	6868.9	6712.6	5332.8	3867.6	3641.3	2920.2
70°	5964.4	5972.0	6211.9	7012.4	8084.0	8092.5	7243.8	5044.0	3132.1	2360.3	1455.0
72.5°	5564.2	5551.5	5863.9	7185.5	9088.9	9117.7	7494.6	4086.4	1935.5	1177.2	682.3
75°	4519.6	4541.5	4870.0	6287.0	7790.2	7815.5	6109.7	2409.3	919.6	575.9	436.6
77.5°	1945.6	2068.1	2715.8	4429.2	5579.4	5500.8	3149.0	976.2	490.6	410.4	334.4
80°	561.6	609.7	967.8	2106.1	3343.2	3284.1	1246.4	365.7	342.0	308.2	239.8
82.5°	181.6	201.0	354.7	838.6	1498.1	1496.4	472.9	216.2	223.8	209.4	154.5
85°	50.7	58.3	108.9	254.2	463.6	454.3	136.8	102.2	119.1	120.8	76.8
87.5°	0.0	0.0	0.8	1.7	1.7	1.7	3.4	15.2	34.6	43.9	31.2
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°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
2.5°	1675.4	1672.9	1707.5	1734.5	1759.9	1776.7	1781.8	1785.2	1791.9	1795.3	1791.9
5°	1687.2	1699.9	1757.3	1799.5	1833.3	1853.6	1854.4	1852.8	1857.8	1853.6	1851.1
7.5°	1712.6	1737.1	1809.7	1854.4	1876.4	1877.2	1857.0	1833.3	1821.5	1811.4	1808.0
10°	1746.3	1782.7	1862.0	1891.6	1884.8	1853.6	1808.8	1771.7	1750.6	1735.4	1732.0
12.5°	1792.8	1833.3	1908.5	1907.6	1865.4	1809.7	1757.3	1712.6	1682.2	1664.4	1658.5
15°	1836.7	1888.2	1942.3	1902.6	1835.9	1768.3	1700.7	1640.8	1600.3	1572.4	1567.3
17.5°	1890.8	1945.6	1966.8	1886.5	1798.7	1711.7	1621.4	1542.8	1487.9	1455.0	1452.5
20°	1953.2	2002.2	1978.6	1858.7	1750.6	1636.6	1514.1	1426.3	1367.2	1335.1	1337.6
22.5°	2025.9	2061.3	1982.0	1820.7	1683.9	1530.2	1393.4	1308.9	1269.2	1252.3	1253.2
25°	2103.6	2126.4	1976.0	1769.1	1581.7	1400.1	1269.2	1230.4	1227.0	1222.8	1224.5
27.5°	2195.6	2190.5	1958.3	1696.5	1444.0	1249.0	1182.2	1192.4	1205.9	1204.2	1205.9
30°	2318.9	2270.8	1935.5	1596.0	1280.2	1122.3	1130.7	1159.4	1177.2	1178.9	1183.9
32.5°	2459.9	2359.4	1899.2	1459.2	1124.0	1051.4	1082.6	1117.2	1138.3	1142.6	1149.3
35°	2628.0	2460.8	1835.0	1288.6	1011.7	1009.1	1037.8	1061.5	1084.3	1086.0	1086.0
37.5°	2821.3	2562.1	1732.8	1100.3	942.4	972.8	999.8	1004.9	1010.8	1005.8	1008.3
40°	2998.7	2660.1	1587.6	928.9	885.8	940.7	963.5	946.6	928.1	915.4	917.9
42.5°	3147.3	2726.8	1395.1	809.0	828.4	912.0	929.8	895.1	858.8	835.2	838.6
45°	3314.5	2788.4	1168.7	727.9	779.4	891.8	903.6	858.8	812.4	776.9	771.8
47.5°	3545.1	2914.2	967.8	671.3	744.8	880.8	900.2	839.4	778.6	725.4	719.5
50°	3829.6	3092.4	799.7	634.2	728.8	874.9	899.4	818.3	745.7	683.2	678.9
52.5°	4140.4	3266.4	675.6	605.5	712.7	857.1	895.1	794.6	711.0	643.5	638.4
55°	4347.3	3334.8	592.0	578.5	686.5	829.3	878.2	771.8	658.7	597.0	589.4
57.5°	4408.1	3247.0	533.7	554.0	652.8	790.4	846.2	723.7	626.6	577.6	571.7
60°	4303.4	3025.7	497.4	533.7	615.6	740.6	790.4	695.8	601.3	557.3	553.1
62.5°	4007.8	2684.5	469.5	512.6	577.6	688.2	754.9	662.1	573.4	538.8	532.9
65°	3413.3	2201.5	446.7	490.6	541.3	638.4	716.1	628.3	543.0	516.8	510.1
67.5°	2387.3	1546.2	422.2	464.5	505.0	590.3	675.6	597.0	511.7	492.3	485.6
70°	1167.0	820.0	392.7	434.1	466.1	541.3	635.0	559.0	470.4	459.4	450.1
72.5°	555.7	458.5	358.1	392.7	412.9	476.3	567.5	504.1	421.4	397.7	381.7
75°	372.4	326.0	312.5	343.7	348.8	399.4	486.4	434.9	371.6	344.5	331.0
77.5°	282.1	249.1	262.6	290.5	280.4	328.5	400.3	387.6	335.3	310.8	304.0
80°	198.4	181.6	208.6	225.5	217.9	279.5	360.6	331.9	276.1	249.1	244.0
82.5°	125.0	121.6	153.7	156.2	158.8	221.2	296.4	260.9	214.5	176.5	163.8
85°	62.5	69.2	92.0	92.0	91.2	114.0	168.9	146.9	115.7	92.0	89.5
87.5°	21.1	29.6	39.7	32.1	24.5	19.4	22.0	27.0	28.7	27.9	27.9
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)