

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: P632895

Luminaire Tested: GWS-SA2D-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632895
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-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11536.5 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

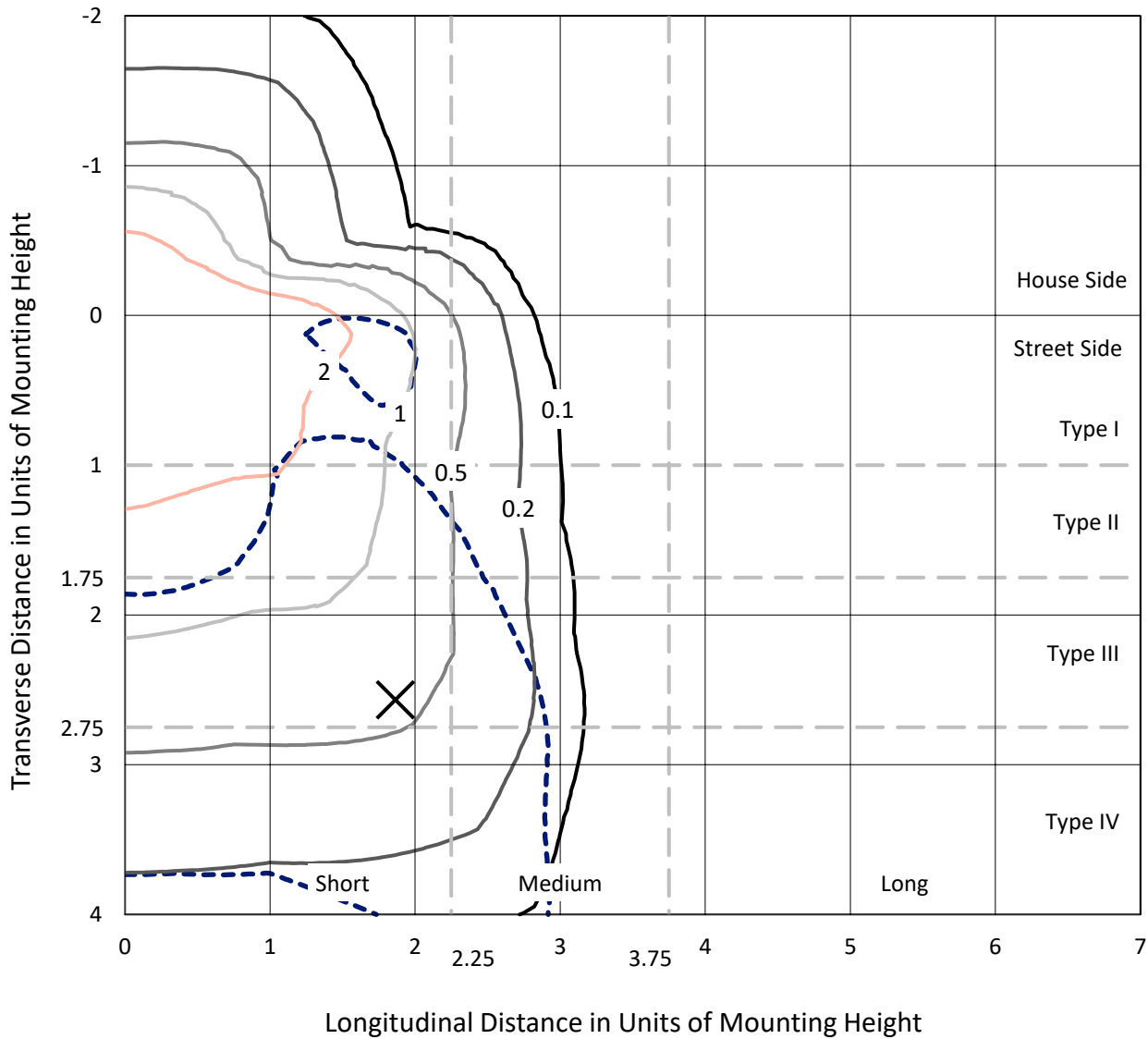
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

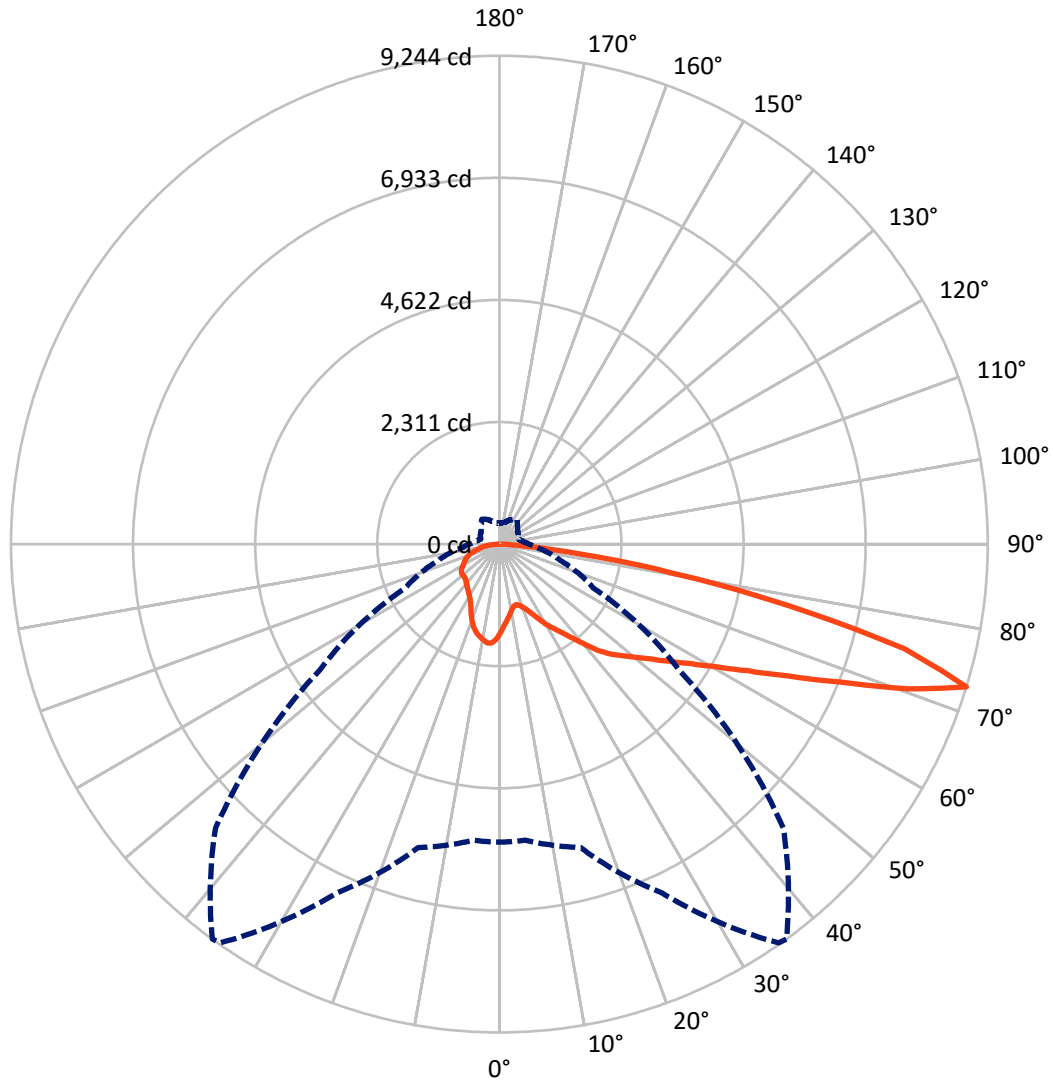
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	2659.7	0.0	2659.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8876.8	0.0	8876.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	11536.5	0.0	11536.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.4
10°-20°	445.3	3.9
20°-30°	737.4	6.4
30°-40°	1104.4	9.6
40°-50°	1611.2	14.0
50°-60°	2293.2	19.9
60°-70°	2897.3	25.1
70°-80°	2064.6	17.9
80°-90°	225.4	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°	11536.5	100.0
0°-180°	11536.5	100.0

Coefficient of Utilization



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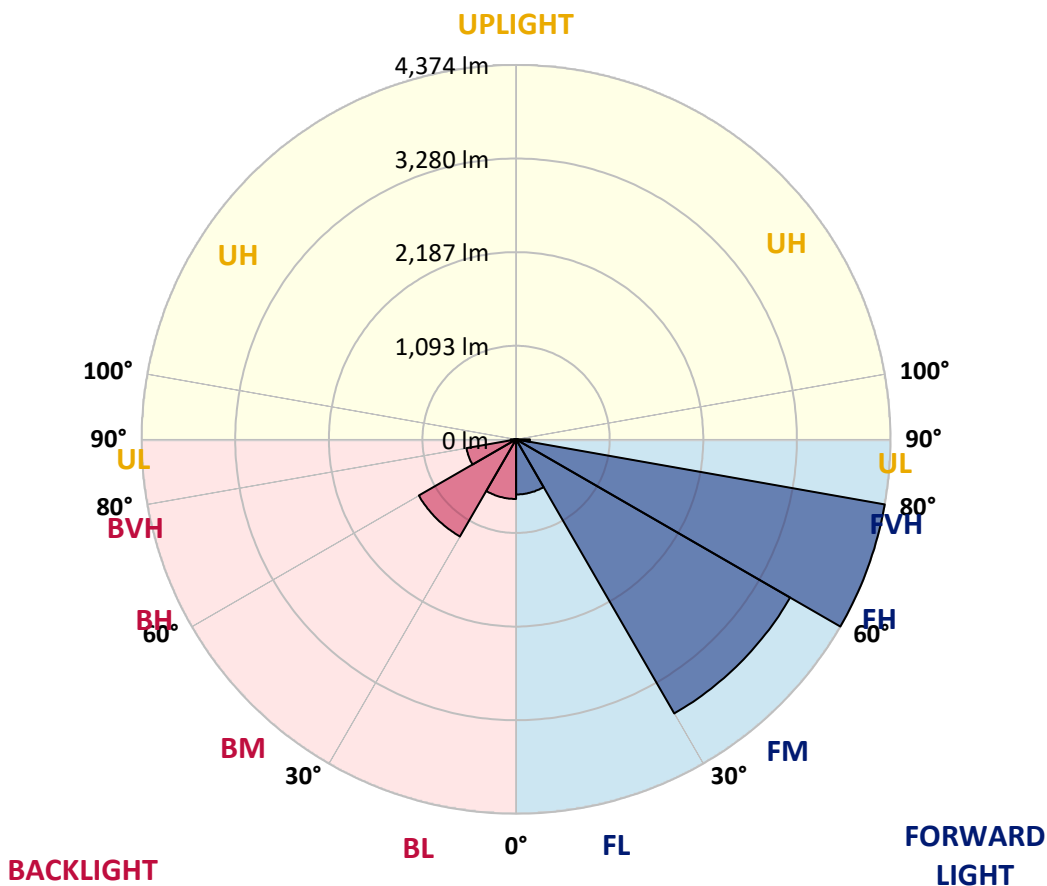
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.0	5.6			
FM (30°-60°)	3697.2	32.0			
FH (60°-80°)	4373.9	37.9			G2/5000
FVH (80°-90°)	161.8	1.4			G2/225
BL (0°-30°)	696.5	6.0	B2/1000		
BM (30°-60°)	1311.6	11.4	B2/2500		
BH (60°-80°)	588.0	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°	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4
2.5°	1540.3	1537.7	1532.6	1548.0	1563.4	1561.7	1583.1	1603.7	1625.9	1649.0	1679.9
5°	1417.0	1415.3	1411.0	1434.1	1457.2	1456.4	1491.5	1524.9	1570.3	1619.9	1681.6
7.5°	1293.7	1289.4	1295.4	1324.5	1357.1	1360.5	1408.4	1463.2	1529.2	1603.7	1691.0
10°	1185.0	1184.1	1186.7	1219.2	1268.0	1271.5	1333.1	1409.3	1496.6	1595.9	1712.4
12.5°	1156.7	1155.0	1148.2	1164.4	1201.2	1206.4	1274.0	1367.3	1474.4	1600.2	1741.5
15°	1203.0	1198.7	1174.7	1167.0	1185.0	1189.3	1246.6	1342.5	1461.5	1607.9	1778.3
17.5°	1282.6	1280.0	1234.6	1203.0	1214.9	1218.4	1261.2	1338.2	1458.1	1623.3	1823.7
20°	1399.0	1387.9	1316.8	1268.9	1268.9	1274.0	1299.7	1357.1	1462.4	1642.2	1875.1
22.5°	1553.1	1530.9	1430.7	1365.6	1348.5	1355.4	1366.5	1404.2	1480.4	1673.9	1939.3
25°	1726.1	1705.5	1586.5	1494.9	1470.9	1473.5	1464.1	1470.9	1519.7	1717.5	2018.9
27.5°	1910.2	1896.5	1769.8	1653.3	1615.6	1615.6	1582.3	1566.0	1574.5	1767.2	2108.0
30°	2074.6	2055.7	1948.7	1821.1	1771.5	1771.5	1708.1	1673.0	1652.5	1828.0	2227.0
32.5°	2161.0	2149.9	2078.8	1981.2	1920.4	1911.0	1856.2	1815.1	1767.2	1917.9	2387.9
35°	2274.1	2271.5	2228.7	2152.5	2075.4	2061.7	2024.0	1991.5	1908.5	2030.0	2602.0
37.5°	2416.2	2411.9	2405.1	2359.7	2267.2	2264.6	2231.2	2191.9	2084.0	2191.9	2861.4
40°	2575.4	2567.7	2559.2	2558.3	2502.7	2493.2	2490.7	2446.2	2295.5	2387.1	3132.0
42.5°	2794.6	2768.1	2687.6	2723.6	2764.7	2756.1	2788.6	2721.8	2559.2	2619.1	3388.0
45°	3064.3	2999.3	2840.0	2850.3	2953.9	2971.0	3084.0	3067.8	2849.4	2887.1	3657.7
47.5°	3226.1	3169.6	3021.5	3013.0	3142.2	3163.6	3409.4	3440.2	3161.9	3209.9	3990.7
50°	3358.9	3319.5	3197.9	3209.9	3346.9	3368.3	3732.2	3798.1	3456.5	3540.4	4377.7
52.5°	3519.0	3462.5	3368.3	3424.8	3592.6	3618.3	4090.9	4162.0	3721.9	3903.4	4778.4
55°	3608.9	3585.7	3587.5	3673.9	3884.6	3919.7	4466.8	4454.8	3965.0	4214.2	5079.8
57.5°	3816.1	3807.5	3886.3	3918.8	4225.3	4270.7	4842.6	4739.9	4185.9	4454.8	5224.5
60°	4181.7	4160.3	4228.8	4278.4	4646.6	4710.8	5262.2	5019.0	4335.8	4633.7	5175.7
62.5°	4695.4	4668.8	4671.4	4750.2	5210.8	5278.4	5728.8	5251.9	4382.0	4661.1	4866.6
65°	5334.1	5295.6	5251.9	5358.9	5960.0	6016.5	6236.5	5421.4	4271.6	4397.4	4221.0
67.5°	6007.9	5976.2	5924.9	6149.2	6930.1	6964.3	6805.9	5406.9	3921.4	3691.9	2960.7
70°	6047.3	6055.0	6298.2	7109.9	8196.4	8204.9	7344.4	5114.1	3175.6	2393.1	1475.2
72.5°	5641.5	5628.6	5945.4	7285.4	9215.2	9244.3	7598.7	4143.1	1962.4	1193.5	691.8
75°	4582.4	4604.6	4937.7	6374.4	7898.4	7924.1	6194.6	2442.7	932.4	583.9	442.7
77.5°	1972.7	2096.8	2753.5	4490.7	5656.9	5577.3	3192.8	989.8	497.4	416.1	339.1
80°	569.4	618.2	981.2	2135.4	3389.7	3329.7	1263.7	370.7	346.8	312.5	243.2
82.5°	184.1	203.8	359.6	850.2	1518.9	1517.2	479.5	219.2	226.9	212.3	156.7
85°	51.4	59.1	110.4	257.7	470.1	460.6	138.7	103.6	120.7	122.4	77.9
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°	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4	1688.4
2.5°	1698.7	1696.1	1731.2	1758.6	1784.3	1801.4	1806.6	1810.0	1816.8	1820.3	1816.8
5°	1710.7	1723.5	1781.7	1824.6	1858.8	1879.4	1880.2	1878.5	1883.6	1879.4	1876.8
7.5°	1736.4	1761.2	1834.8	1880.2	1902.5	1903.3	1882.8	1858.8	1846.8	1836.5	1833.1
10°	1770.6	1807.4	1887.9	1917.9	1911.0	1879.4	1834.0	1796.3	1774.9	1759.5	1756.1
12.5°	1817.7	1858.8	1935.0	1934.1	1891.3	1834.8	1781.7	1736.4	1705.5	1687.6	1681.6
15°	1862.2	1914.5	1969.3	1929.0	1861.4	1792.9	1724.4	1663.6	1622.5	1594.2	1589.1
17.5°	1917.0	1972.7	1994.1	1912.7	1823.7	1735.5	1643.9	1564.3	1508.6	1475.2	1472.7
20°	1980.4	2030.0	2006.1	1884.5	1774.9	1659.3	1535.2	1446.1	1386.2	1353.6	1356.2
22.5°	2054.0	2090.0	2009.5	1846.0	1707.3	1551.4	1412.7	1327.1	1286.9	1269.7	1270.6
25°	2132.8	2155.9	2003.5	1793.7	1603.7	1419.6	1286.9	1247.5	1244.1	1239.8	1241.5
27.5°	2226.1	2221.0	1985.5	1720.1	1464.1	1266.3	1198.7	1208.9	1222.6	1220.9	1222.6
30°	2351.1	2302.3	1962.4	1618.2	1298.0	1137.9	1146.4	1175.6	1193.5	1195.2	1200.4
32.5°	2494.1	2392.2	1925.6	1479.5	1139.6	1066.0	1097.6	1132.7	1154.2	1158.4	1165.3
35°	2664.5	2495.0	1860.5	1306.6	1025.7	1023.2	1052.3	1076.2	1099.4	1101.1	1101.1
37.5°	2860.6	2597.7	1756.9	1115.6	955.5	986.3	1013.7	1018.9	1024.9	1019.7	1022.3
40°	3040.4	2697.0	1609.6	941.8	898.1	953.8	976.9	959.8	941.0	928.1	930.7
42.5°	3191.0	2764.7	1414.4	820.2	839.9	924.7	942.7	907.6	870.8	846.8	850.2
45°	3360.6	2827.2	1185.0	738.0	790.3	904.1	916.1	870.8	823.7	787.7	782.6
47.5°	3594.3	2954.7	981.2	680.7	755.2	893.0	912.7	851.1	789.4	735.5	729.5
50°	3882.8	3135.4	810.8	643.0	738.9	887.0	911.8	829.7	756.0	692.7	688.4
52.5°	4197.9	3311.8	685.0	613.9	722.6	869.0	907.6	805.7	720.9	652.4	647.3
55°	4407.7	3381.1	600.2	586.5	696.1	840.8	890.4	782.6	667.8	605.3	597.6
57.5°	4469.3	3292.1	541.1	561.7	661.8	801.4	857.9	733.8	635.3	585.6	579.6
60°	4363.2	3067.8	504.3	541.1	624.2	750.9	801.4	705.5	609.6	565.1	560.8
62.5°	4063.5	2721.8	476.0	519.7	585.6	697.8	765.4	671.3	581.4	546.3	540.3
65°	3460.7	2232.1	452.9	497.4	548.8	647.3	726.1	637.0	550.5	524.0	517.1
67.5°	2420.5	1567.7	428.1	470.9	512.0	598.5	685.0	605.3	518.9	499.2	492.3
70°	1183.3	831.4	398.1	440.1	472.6	548.8	643.9	566.8	476.9	465.8	456.4
72.5°	563.4	464.9	363.0	398.1	418.7	482.9	575.4	511.1	427.2	403.3	387.0
75°	377.6	330.5	316.8	348.5	353.6	405.0	493.2	440.9	376.7	349.3	335.6
77.5°	286.0	252.6	266.3	294.5	284.3	333.1	405.8	393.0	339.9	315.1	308.2
80°	201.2	184.1	211.5	228.6	220.9	283.4	365.6	336.5	280.0	252.6	247.4
82.5°	126.7	123.3	155.8	158.4	161.0	224.3	300.5	264.6	217.5	178.9	166.1
85°	63.4	70.2	93.3	93.3	92.5	115.6	171.2	149.0	117.3	93.3	90.8
87.5°	21.4	30.0	40.2	32.5	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)