

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: P632840

Luminaire Tested: GWS-SA2D-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632840
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-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11278.1 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

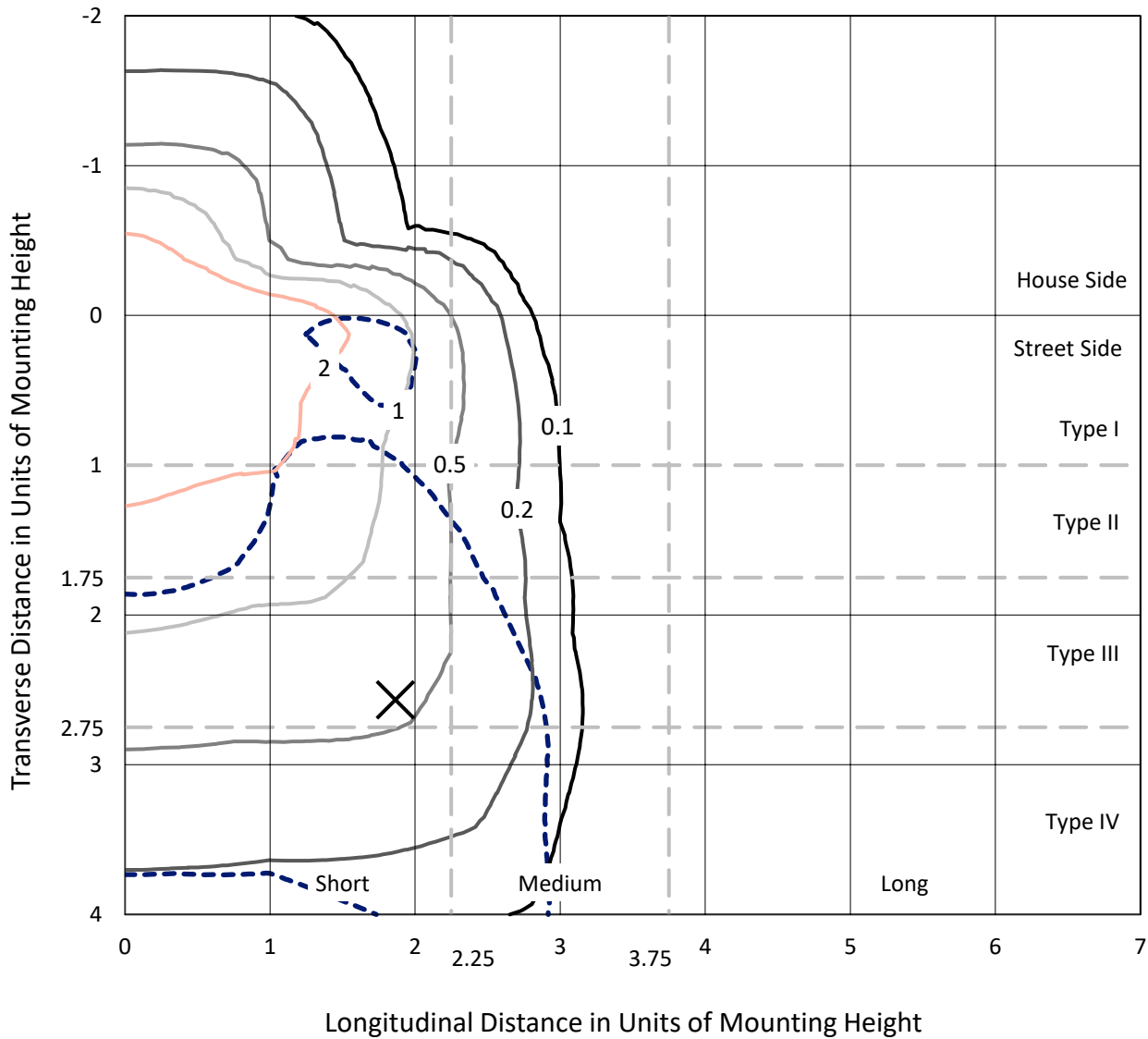
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

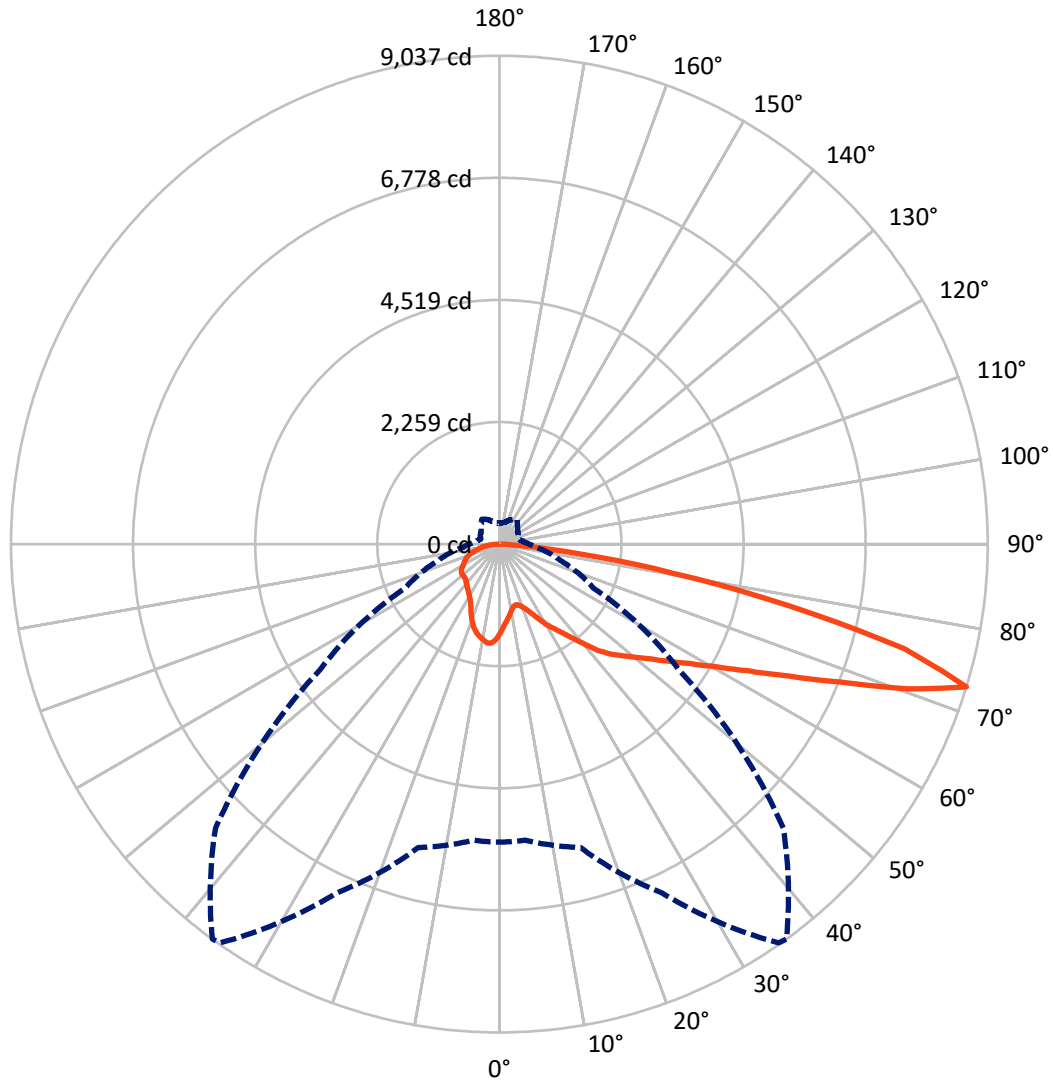
✕ Max cd
 - - - 1/2 Max cd



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	2600.1	0.0	2600.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8678.0	0.0	8678.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	11278.1	0.0	11278.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.4
10°-20°	435.3	3.9
20°-30°	720.9	6.4
30°-40°	1079.6	9.6
40°-50°	1575.1	14.0
50°-60°	2241.8	19.9
60°-70°	2832.4	25.1
70°-80°	2018.3	17.9
80°-90°	220.3	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°	11278.1	100.0
0°-180°	11278.1	100.0

Coefficient of Utilization



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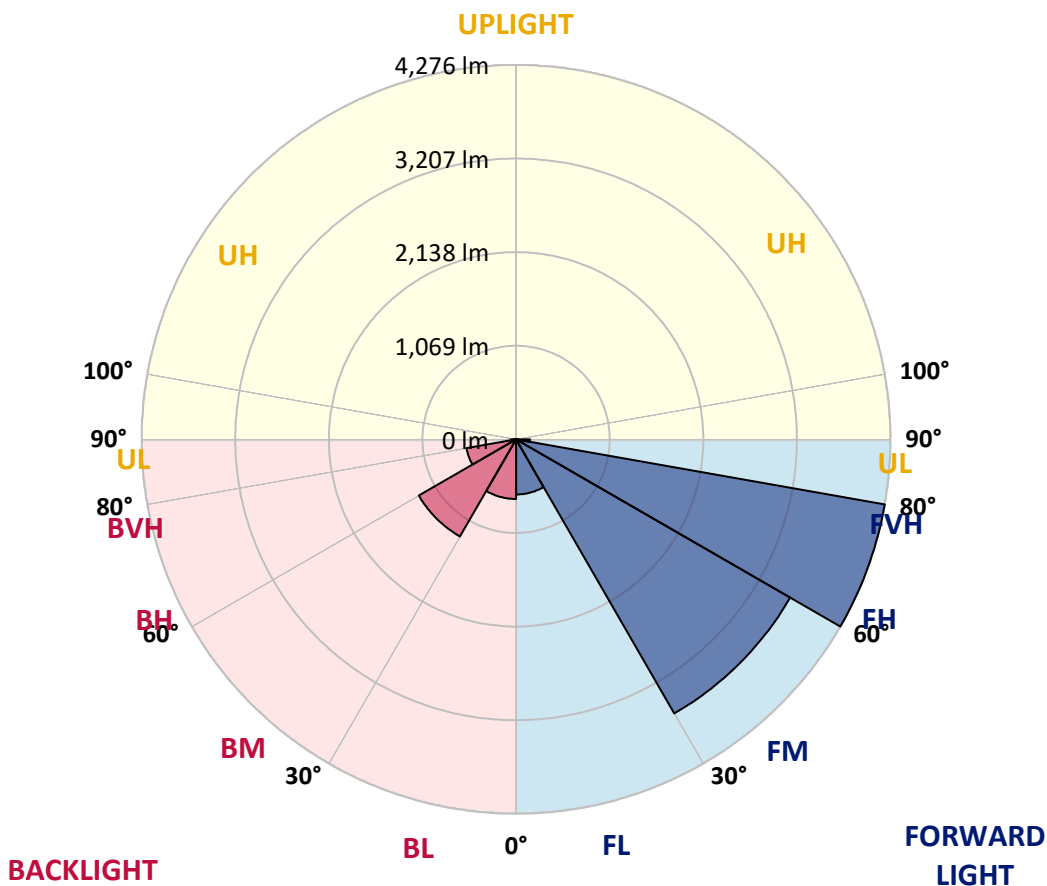
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.6	5.6			
FM (30°-60°)	3614.3	32.0			
FH (60°-80°)	4275.9	37.9			G2/5000
FVH (80°-90°)	158.1	1.4			G2/225
BL (0°-30°)	680.9	6.0	B2/1000		
BM (30°-60°)	1282.2	11.4	B2/2500		
BH (60°-80°)	574.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	62.2	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°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1505.8	1503.3	1498.3	1513.3	1528.4	1526.7	1547.6	1567.7	1589.5	1612.1	1642.2
5°	1385.3	1383.6	1379.4	1402.0	1424.6	1423.8	1458.1	1490.7	1535.1	1583.6	1643.9
7.5°	1264.7	1260.5	1266.4	1294.9	1326.7	1330.0	1376.9	1430.5	1494.9	1567.7	1653.1
10°	1158.4	1157.6	1160.1	1191.9	1239.6	1243.0	1303.2	1377.7	1463.1	1560.2	1674.0
12.5°	1130.8	1129.1	1122.4	1138.3	1174.3	1179.4	1245.5	1336.7	1441.3	1564.4	1702.5
15°	1176.0	1171.8	1148.4	1140.9	1158.4	1162.6	1218.7	1312.4	1428.8	1571.9	1738.5
17.5°	1253.9	1251.3	1207.0	1176.0	1187.7	1191.1	1232.9	1308.3	1425.4	1587.0	1782.8
20°	1367.7	1356.8	1287.3	1240.5	1240.5	1245.5	1270.6	1326.7	1429.6	1605.4	1833.1
22.5°	1518.4	1496.6	1398.7	1335.0	1318.3	1325.0	1335.9	1372.7	1447.2	1636.4	1895.8
25°	1687.4	1667.3	1551.0	1461.4	1438.0	1440.5	1431.3	1438.0	1485.7	1679.1	1973.7
27.5°	1867.4	1854.0	1730.1	1616.3	1579.5	1579.5	1546.8	1530.9	1539.3	1727.6	2060.7
30°	2028.1	2009.7	1905.1	1780.3	1731.8	1731.8	1669.9	1635.5	1615.4	1787.0	2177.1
32.5°	2112.6	2101.8	2032.3	1936.9	1877.4	1868.2	1814.7	1774.5	1727.6	1874.9	2334.4
35°	2223.1	2220.6	2178.8	2104.3	2028.9	2015.5	1978.7	1946.9	1865.7	1984.6	2543.7
37.5°	2362.1	2357.9	2351.2	2306.8	2216.4	2213.9	2181.3	2142.8	2037.3	2142.8	2797.3
40°	2517.8	2510.2	2501.8	2501.0	2446.6	2437.4	2434.9	2391.4	2244.0	2333.6	3061.8
42.5°	2732.0	2706.1	2627.4	2662.6	2702.7	2694.4	2726.2	2660.9	2501.8	2560.4	3312.1
45°	2995.7	2932.1	2776.4	2786.4	2887.7	2904.5	3014.9	2999.0	2785.6	2822.4	3575.7
47.5°	3153.9	3098.6	2953.8	2945.5	3071.9	3092.8	3333.0	3363.1	3091.1	3138.0	3901.3
50°	3283.6	3245.1	3126.3	3138.0	3271.9	3292.8	3648.6	3713.0	3379.0	3461.1	4279.7
52.5°	3440.1	3384.9	3292.8	3348.1	3512.1	3537.2	3999.3	4068.7	3638.5	3816.0	4671.4
55°	3528.0	3505.4	3507.1	3591.6	3797.6	3831.9	4366.7	4355.0	3876.2	4119.8	4966.0
57.5°	3730.6	3722.2	3799.2	3831.0	4130.7	4175.0	4734.2	4633.7	4092.2	4355.0	5107.5
60°	4088.0	4067.1	4134.0	4182.6	4542.5	4605.3	5144.3	4906.6	4238.7	4529.9	5059.8
62.5°	4590.2	4564.3	4566.8	4643.8	5094.1	5160.2	5600.5	5134.3	4283.9	4556.7	4757.6
65°	5214.6	5177.0	5134.3	5238.9	5826.5	5881.7	6096.8	5300.0	4175.9	4298.9	4126.5
67.5°	5873.4	5842.4	5792.2	6011.5	6774.8	6808.3	6653.5	5285.8	3833.5	3609.2	2894.4
70°	5911.9	5919.4	6157.1	6950.6	8012.8	8021.1	7179.9	4999.5	3104.5	2339.5	1442.2
72.5°	5515.1	5502.6	5812.3	7122.2	9008.8	9037.3	7428.5	4050.3	1918.4	1166.8	676.3
75°	4479.7	4501.5	4827.1	6231.6	7721.5	7746.6	6055.8	2388.0	911.5	570.8	432.7
77.5°	1928.5	2049.9	2691.9	4390.2	5530.2	5452.3	3121.2	967.6	486.3	406.8	331.5
80°	556.6	604.3	959.2	2087.5	3313.8	3255.2	1235.4	362.4	339.0	305.5	237.7
82.5°	180.0	199.2	351.5	831.2	1484.9	1483.2	468.7	214.3	221.8	207.6	153.2
85°	50.2	57.8	108.0	251.9	459.5	450.3	135.6	101.3	118.0	119.7	76.2
87.5°	0.0	0.0	0.8	1.7	1.7	1.7	3.3	15.1	34.3	43.5	31.0
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°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1660.6	1658.1	1692.5	1719.2	1744.3	1761.1	1766.1	1769.5	1776.2	1779.5	1776.2
5°	1672.4	1684.9	1741.8	1783.7	1817.2	1837.3	1838.1	1836.4	1841.4	1837.3	1834.7
7.5°	1697.5	1721.7	1793.7	1838.1	1859.9	1860.7	1840.6	1817.2	1805.4	1795.4	1792.1
10°	1731.0	1766.9	1845.6	1874.9	1868.2	1837.3	1792.9	1756.1	1735.1	1720.1	1716.7
12.5°	1777.0	1817.2	1891.7	1890.8	1849.0	1793.7	1741.8	1697.5	1667.3	1649.8	1643.9
15°	1820.5	1871.6	1925.1	1885.8	1819.7	1752.7	1685.8	1626.3	1586.2	1558.5	1553.5
17.5°	1874.1	1928.5	1949.4	1869.9	1782.8	1696.6	1607.1	1529.2	1474.8	1442.2	1439.7
20°	1936.0	1984.6	1961.1	1842.3	1735.1	1622.1	1500.8	1413.7	1355.1	1323.3	1325.8
22.5°	2008.0	2043.2	1964.5	1804.6	1669.0	1516.7	1381.1	1297.4	1258.0	1241.3	1242.1
25°	2085.0	2107.6	1958.6	1753.6	1567.7	1387.8	1258.0	1219.5	1216.2	1212.0	1213.7
27.5°	2176.2	2171.2	1941.0	1681.6	1431.3	1238.0	1171.8	1181.9	1195.3	1193.6	1195.3
30°	2298.5	2250.7	1918.4	1582.0	1268.9	1112.4	1120.8	1149.2	1166.8	1168.5	1173.5
32.5°	2438.2	2338.6	1882.5	1446.4	1114.1	1042.1	1073.1	1107.4	1128.3	1132.5	1139.2
35°	2604.8	2439.1	1818.8	1277.3	1002.7	1000.2	1028.7	1052.1	1074.7	1076.4	1076.4
37.5°	2796.5	2539.5	1717.6	1090.6	934.1	964.2	991.0	996.1	1001.9	996.9	999.4
40°	2972.3	2636.6	1573.6	920.7	878.0	932.4	955.0	938.3	919.9	907.3	909.8
42.5°	3119.6	2702.7	1382.8	801.9	821.1	904.0	921.6	887.2	851.2	827.8	831.2
45°	3285.3	2763.8	1158.4	721.5	772.6	883.9	895.6	851.2	805.2	770.1	765.0
47.5°	3513.8	2888.6	959.2	665.4	738.3	873.0	892.3	832.0	771.7	719.0	713.1
50°	3795.9	3065.2	792.7	628.6	722.3	867.2	891.4	811.1	739.1	677.1	673.0
52.5°	4103.9	3237.6	669.6	600.1	706.4	849.6	887.2	787.6	704.8	637.8	632.8
55°	4309.0	3305.4	586.7	573.4	680.5	822.0	870.5	765.0	652.9	591.8	584.2
57.5°	4369.2	3218.3	529.0	549.1	647.0	783.4	838.7	717.3	621.1	572.5	566.7
60°	4265.4	2999.0	493.0	529.0	610.2	734.1	783.4	689.7	596.0	552.4	548.2
62.5°	3972.5	2660.9	465.4	508.1	572.5	682.2	748.3	656.2	568.3	534.0	528.2
65°	3383.2	2182.1	442.8	486.3	536.5	632.8	709.8	622.7	538.2	512.3	505.6
67.5°	2366.3	1532.6	418.5	460.4	500.5	585.1	669.6	591.8	507.2	488.0	481.3
70°	1156.8	812.7	389.2	430.2	462.0	536.5	629.4	554.1	466.2	455.3	446.1
72.5°	550.8	454.5	354.9	389.2	409.3	472.1	562.5	499.7	417.7	394.2	378.3
75°	369.1	323.1	309.7	340.7	345.7	395.9	482.1	431.1	368.3	341.5	328.1
77.5°	279.6	246.9	260.3	287.9	277.9	325.6	396.7	384.2	332.3	308.0	301.3
80°	196.7	180.0	206.7	223.5	216.0	277.1	357.4	328.9	273.7	246.9	241.9
82.5°	123.9	120.5	152.3	154.8	157.4	219.3	293.8	258.6	212.6	174.9	162.4
85°	61.9	68.6	91.2	91.2	90.4	113.0	167.4	145.6	114.7	91.2	88.7
87.5°	20.9	29.3	39.3	31.8	24.3	19.3	21.8	26.8	28.5	27.6	27.6
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)