

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: P633555

Luminaire Tested: GWS-SA2E-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633555
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-SA2E-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11195.8 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

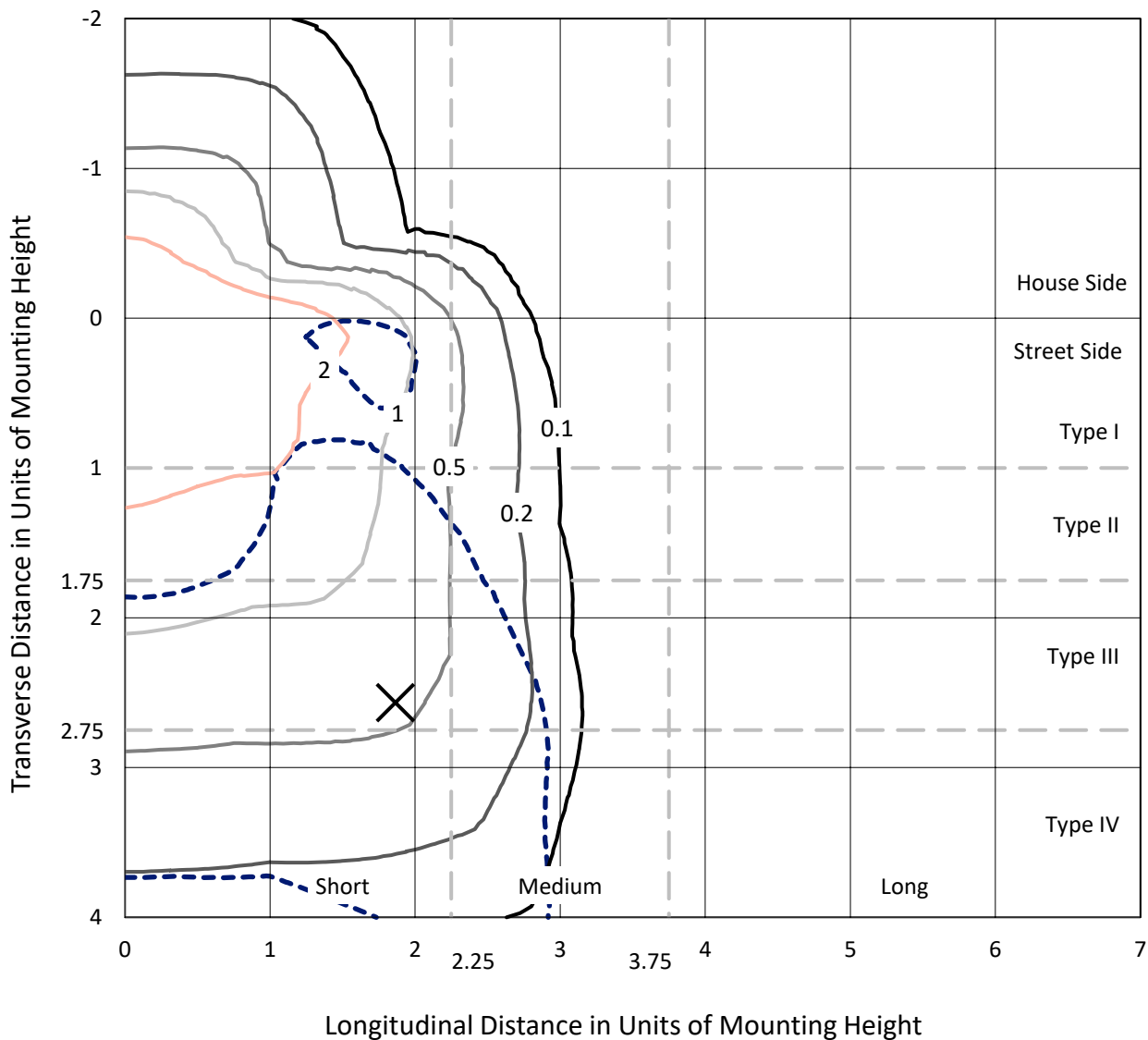
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

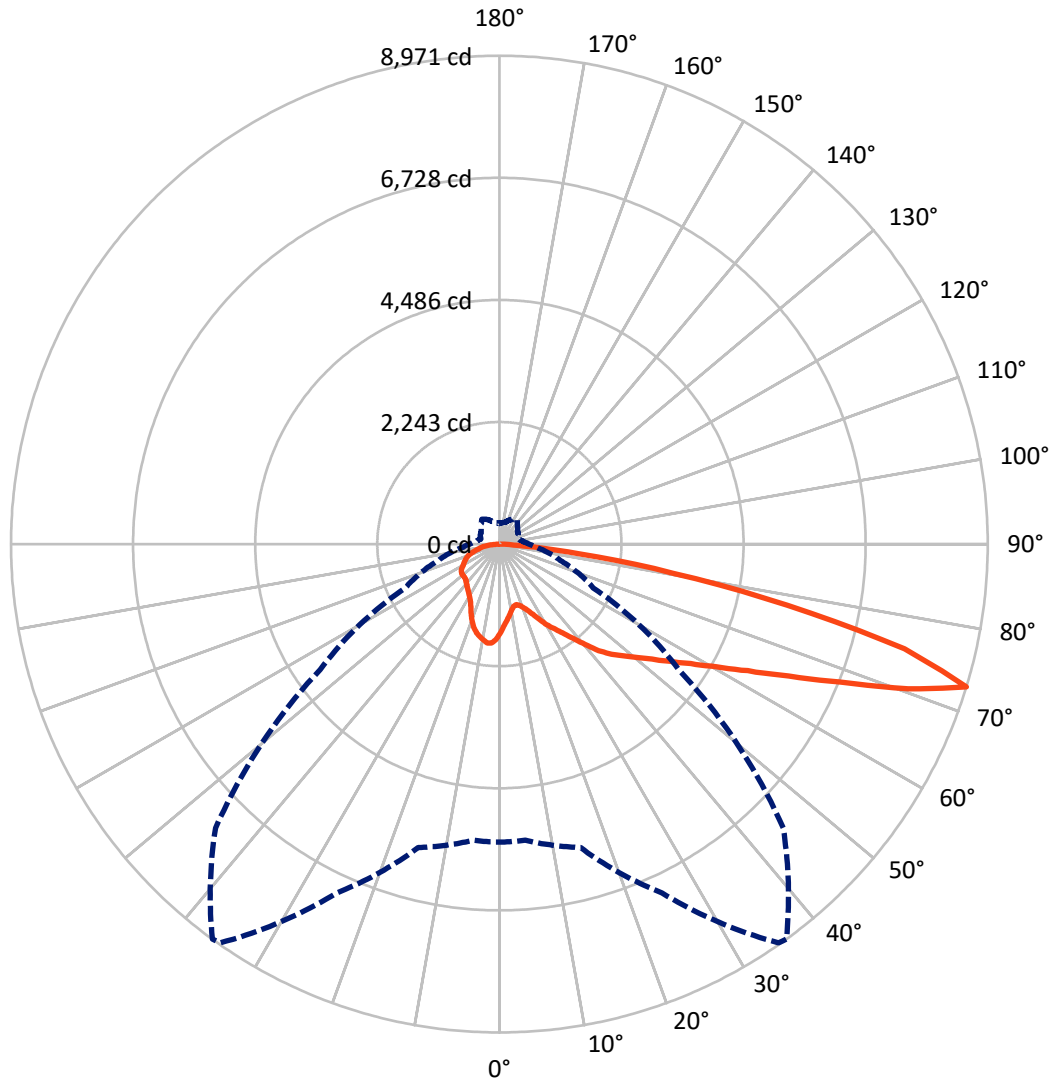
✕ Max cd
 - - - 1/2 Max cd



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	2581.1	0.0	2581.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8614.7	0.0	8614.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	11195.8	0.0	11195.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.4
10°-20°	432.1	3.9
20°-30°	715.7	6.4
30°-40°	1071.8	9.6
40°-50°	1563.6	14.0
50°-60°	2225.5	19.9
60°-70°	2811.7	25.1
70°-80°	2003.6	17.9
80°-90°	218.7	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°	11195.8	100.0
0°-180°	11195.8	100.0

Coefficient of Utilization



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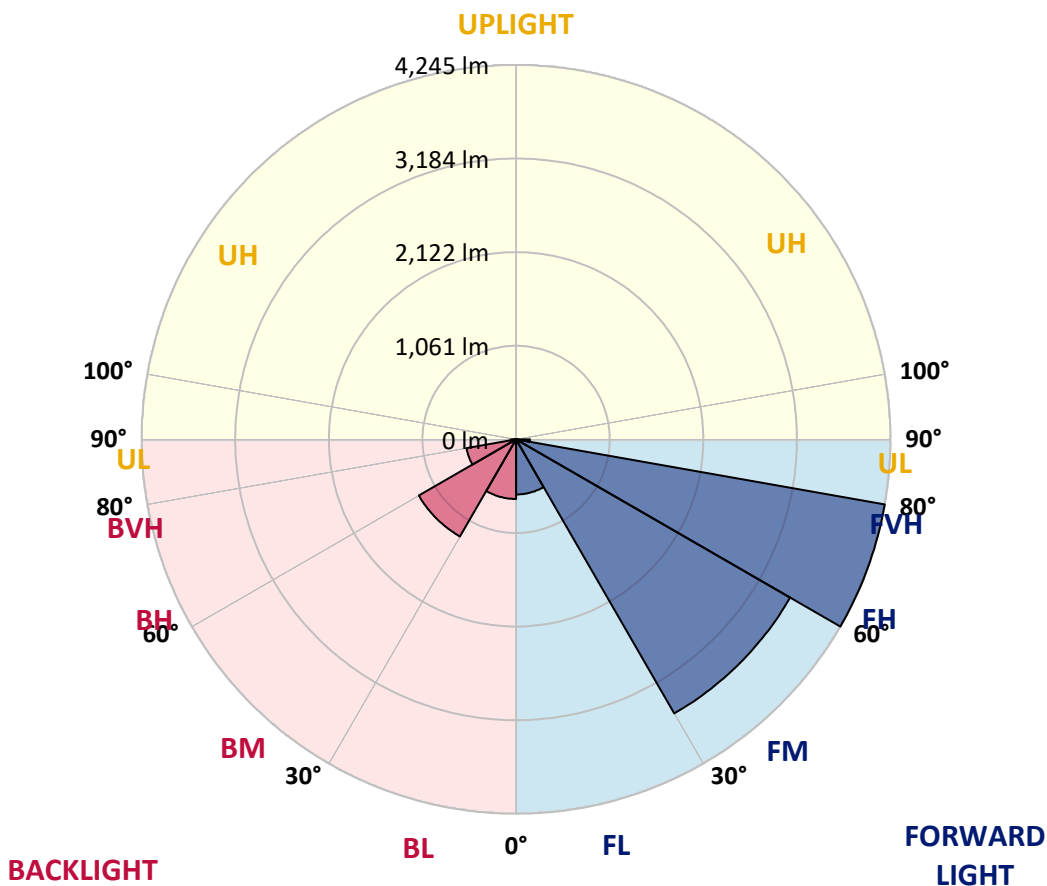
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.0	5.6			
FM (30°-60°)	3588.0	32.0			
FH (60°-80°)	4244.7	37.9			G2/5000
FVH (80°-90°)	157.0	1.4			G2/225
BL (0°-30°)	675.9	6.0	B2/1000		
BM (30°-60°)	1272.9	11.4	B2/2500		
BH (60°-80°)	570.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	61.7	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°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1494.8	1492.3	1487.3	1502.3	1517.2	1515.6	1536.4	1556.3	1577.9	1600.3	1630.2
5°	1375.2	1373.5	1369.3	1391.8	1414.2	1413.4	1447.4	1479.9	1523.9	1572.1	1631.9
7.5°	1255.5	1251.4	1257.2	1285.4	1317.0	1320.3	1366.8	1420.0	1484.0	1556.3	1641.0
10°	1150.0	1149.1	1151.6	1183.2	1230.6	1233.9	1293.7	1367.7	1452.4	1548.8	1661.8
12.5°	1122.6	1120.9	1114.3	1130.0	1165.8	1170.8	1236.4	1327.0	1430.8	1553.0	1690.1
15°	1167.4	1163.3	1140.0	1132.5	1150.0	1154.1	1209.8	1302.9	1418.4	1560.4	1725.8
17.5°	1244.7	1242.2	1198.2	1167.4	1179.1	1182.4	1223.9	1298.7	1415.0	1575.4	1769.8
20°	1357.7	1346.9	1277.9	1231.4	1231.4	1236.4	1261.3	1317.0	1419.2	1593.7	1819.7
22.5°	1507.3	1485.7	1388.5	1325.3	1308.7	1315.3	1326.1	1362.7	1436.6	1624.4	1882.0
25°	1675.1	1655.2	1539.7	1450.8	1427.5	1430.0	1420.9	1427.5	1474.9	1666.8	1959.3
27.5°	1853.8	1840.5	1717.5	1604.5	1567.9	1567.9	1535.5	1519.7	1528.0	1715.0	2045.7
30°	2013.3	1995.0	1891.2	1767.3	1719.2	1719.2	1657.7	1623.6	1603.7	1774.0	2161.2
32.5°	2097.2	2086.4	2017.5	1922.7	1863.7	1854.6	1801.4	1761.5	1715.0	1861.2	2317.4
35°	2206.9	2204.4	2162.9	2088.9	2014.1	2000.8	1964.3	1932.7	1852.1	1970.1	2525.1
37.5°	2344.8	2340.7	2334.0	2290.0	2200.3	2197.8	2165.4	2127.1	2022.4	2127.1	2776.9
40°	2499.4	2491.9	2483.6	2482.8	2428.8	2419.6	2417.1	2373.9	2227.7	2316.6	3039.5
42.5°	2712.1	2686.3	2608.2	2643.1	2683.0	2674.7	2706.3	2641.5	2483.6	2541.8	3287.9
45°	2973.8	2910.7	2756.1	2766.1	2866.6	2883.3	2992.9	2977.2	2765.3	2801.8	3549.6
47.5°	3130.9	3076.0	2932.3	2924.0	3049.4	3070.2	3308.7	3338.6	3068.6	3115.1	3872.9
50°	3259.7	3221.4	3103.5	3115.1	3248.0	3268.8	3621.9	3685.9	3354.4	3435.8	4248.4
52.5°	3415.0	3360.2	3268.8	3323.6	3486.5	3511.4	3970.1	4039.1	3612.0	3788.1	4637.3
55°	3502.3	3479.9	3481.5	3565.4	3769.8	3803.9	4334.9	4323.2	3847.9	4089.7	4929.8
57.5°	3703.4	3695.1	3771.5	3803.1	4100.5	4144.6	4699.6	4599.9	4062.3	4323.2	5070.2
60°	4058.2	4037.4	4103.9	4152.1	4509.4	4571.7	5106.8	4870.8	4207.7	4496.9	5022.9
62.5°	4556.7	4531.0	4533.4	4609.9	5056.9	5122.6	5559.6	5096.8	4252.6	4523.5	4722.9
65°	5176.6	5139.2	5096.8	5200.7	5784.0	5838.8	6052.4	5261.3	4145.4	4267.6	4096.4
67.5°	5830.5	5799.8	5749.9	5967.6	6725.4	6758.6	6604.9	5247.2	3805.6	3582.9	2873.3
70°	5868.7	5876.2	6112.2	6899.9	7954.3	7962.6	7127.6	4963.0	3081.8	2322.4	1431.7
72.5°	5474.9	5462.4	5769.8	7070.2	8943.1	8971.3	7374.3	4020.8	1904.4	1158.3	671.4
75°	4447.0	4468.6	4791.9	6186.1	7665.1	7690.1	6011.6	2370.6	904.9	566.7	429.6
77.5°	1914.4	2034.9	2672.2	4358.1	5489.8	5412.6	3098.5	960.5	482.8	403.8	329.0
80°	552.6	599.9	952.2	2072.3	3289.6	3231.4	1226.4	359.8	336.5	303.3	236.0
82.5°	178.6	197.8	349.0	825.1	1474.0	1472.4	465.3	212.7	220.2	206.1	152.1
85°	49.9	57.3	107.2	250.1	456.2	447.0	134.6	100.5	117.2	118.8	75.6
87.5°	0.0	0.0	0.8	1.7	1.7	1.7	3.3	15.0	34.1	43.2	30.7
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°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1648.5	1646.0	1680.1	1706.7	1731.6	1748.2	1753.2	1756.5	1763.2	1766.5	1763.2
5°	1660.2	1672.6	1729.1	1770.7	1803.9	1823.8	1824.7	1823.0	1828.0	1823.8	1821.4
7.5°	1685.1	1709.2	1780.6	1824.7	1846.3	1847.1	1827.2	1803.9	1792.3	1782.3	1779.0
10°	1718.3	1754.1	1832.2	1861.2	1854.6	1823.8	1779.8	1743.3	1722.5	1707.5	1704.2
12.5°	1764.0	1803.9	1877.9	1877.0	1835.5	1780.6	1729.1	1685.1	1655.2	1637.7	1631.9
15°	1807.2	1857.9	1911.1	1872.0	1806.4	1739.9	1673.5	1614.5	1574.6	1547.2	1542.2
17.5°	1860.4	1914.4	1935.2	1856.3	1769.8	1684.3	1595.3	1518.1	1464.1	1431.7	1429.2
20°	1921.9	1970.1	1946.8	1828.8	1722.5	1610.3	1489.8	1403.4	1345.2	1313.7	1316.2
22.5°	1993.4	2028.3	1950.1	1791.4	1656.8	1505.6	1371.0	1287.9	1248.9	1232.2	1233.1
25°	2069.8	2092.2	1944.3	1740.8	1556.3	1377.6	1248.9	1210.6	1207.3	1203.2	1204.8
27.5°	2160.4	2155.4	1926.9	1669.3	1420.9	1228.9	1163.3	1173.2	1186.5	1184.9	1186.5
30°	2281.7	2234.3	1904.4	1570.4	1259.7	1104.3	1112.6	1140.8	1158.3	1160.0	1164.9
32.5°	2420.4	2321.6	1868.7	1435.8	1105.9	1034.5	1065.2	1099.3	1120.1	1124.2	1130.9
35°	2585.8	2421.3	1805.6	1268.0	995.4	992.9	1021.2	1044.5	1066.9	1068.6	1068.6
37.5°	2776.1	2521.0	1705.0	1082.7	927.3	957.2	983.8	988.8	994.6	989.6	992.1
40°	2950.6	2617.4	1562.1	914.0	871.6	925.6	948.1	931.5	913.2	900.7	903.2
42.5°	3096.8	2683.0	1372.7	796.0	815.1	897.4	914.8	880.8	845.0	821.8	825.1
45°	3261.3	2743.7	1150.0	716.2	766.9	877.4	889.1	845.0	799.3	764.4	759.5
47.5°	3488.2	2867.5	952.2	660.6	732.9	866.6	885.8	825.9	766.1	713.8	707.9
50°	3768.2	3042.8	786.9	624.0	717.1	860.8	884.9	805.2	733.7	672.2	668.1
52.5°	4074.0	3214.0	664.7	595.8	701.3	843.4	880.8	781.9	699.6	633.2	628.2
55°	4277.5	3281.3	582.5	569.2	675.5	816.0	864.1	759.5	648.1	587.5	580.0
57.5°	4337.4	3194.9	525.1	545.1	642.3	777.7	832.6	712.1	616.5	568.3	562.5
60°	4234.3	2977.2	489.4	525.1	605.7	728.7	777.7	684.7	591.6	548.4	544.2
62.5°	3943.5	2641.5	462.0	504.4	568.3	677.2	742.8	651.4	564.2	530.1	524.3
65°	3358.5	2166.2	439.6	482.8	532.6	628.2	704.6	618.2	534.3	508.5	501.9
67.5°	2349.0	1521.4	415.5	457.0	496.9	580.8	664.7	587.5	503.5	484.4	477.8
70°	1148.3	806.8	386.4	427.1	458.7	532.6	624.8	550.1	462.8	452.0	442.9
72.5°	546.7	451.2	352.3	386.4	406.3	468.6	558.4	496.1	414.6	391.4	375.6
75°	366.4	320.7	307.4	338.2	343.2	393.0	478.6	427.9	365.6	339.0	325.7
77.5°	277.5	245.1	258.4	285.8	275.9	323.2	393.9	381.4	329.9	305.8	299.1
80°	195.3	178.6	205.2	221.9	214.4	275.0	354.8	326.5	271.7	245.1	240.1
82.5°	123.0	119.7	151.2	153.7	156.2	217.7	291.6	256.8	211.1	173.7	161.2
85°	61.5	68.1	90.6	90.6	89.7	112.2	166.2	144.6	113.8	90.6	88.1
87.5°	20.8	29.1	39.1	31.6	24.1	19.1	21.6	26.6	28.3	27.4	27.4
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)