

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: P631408

Luminaire Tested: GWS-SA1F-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8761 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

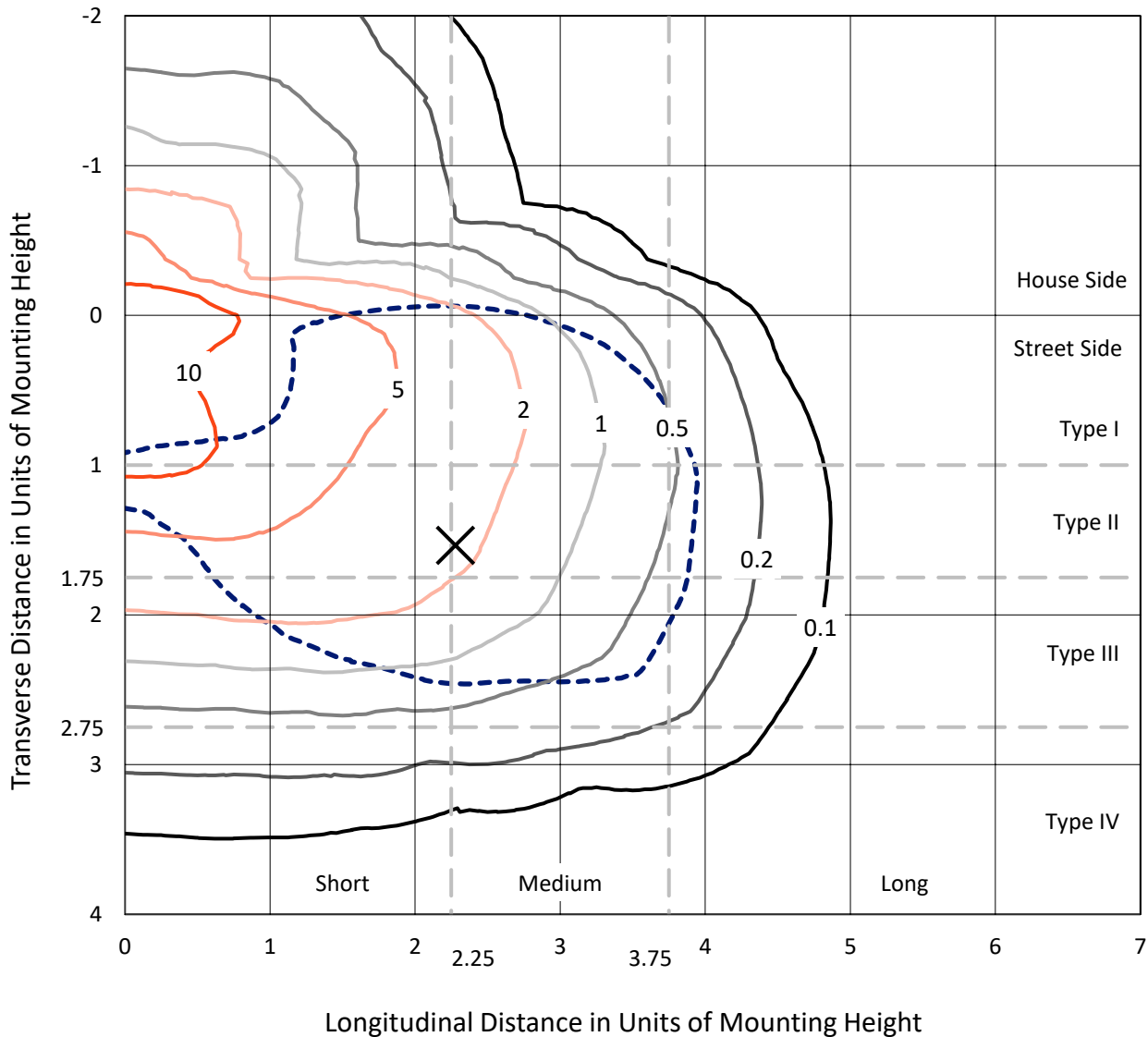
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

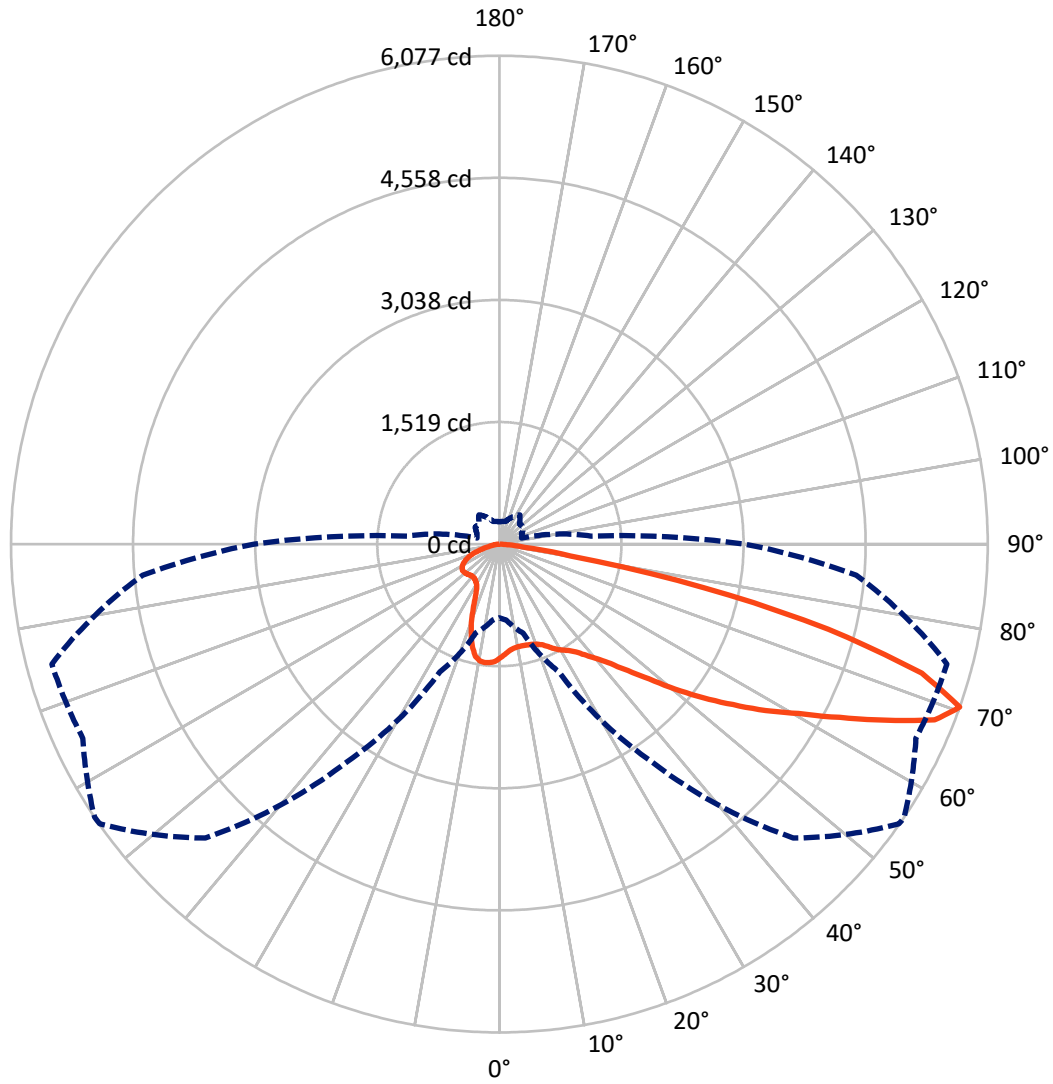
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.3	0.0	1684.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	7076.7	0.0	7076.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	8761.0	0.0	8761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.5
10°-20°	354.6	4.0
20°-30°	586.2	6.7
30°-40°	876.5	10.0
40°-50°	1304.3	14.9
50°-60°	1854.4	21.2
60°-70°	2296.7	26.2
70°-80°	1268.2	14.5
80°-90°	89.3	1.0
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°	8761.0	100.0
0°-180°	8761.0	100.0

Coefficient of Utilization



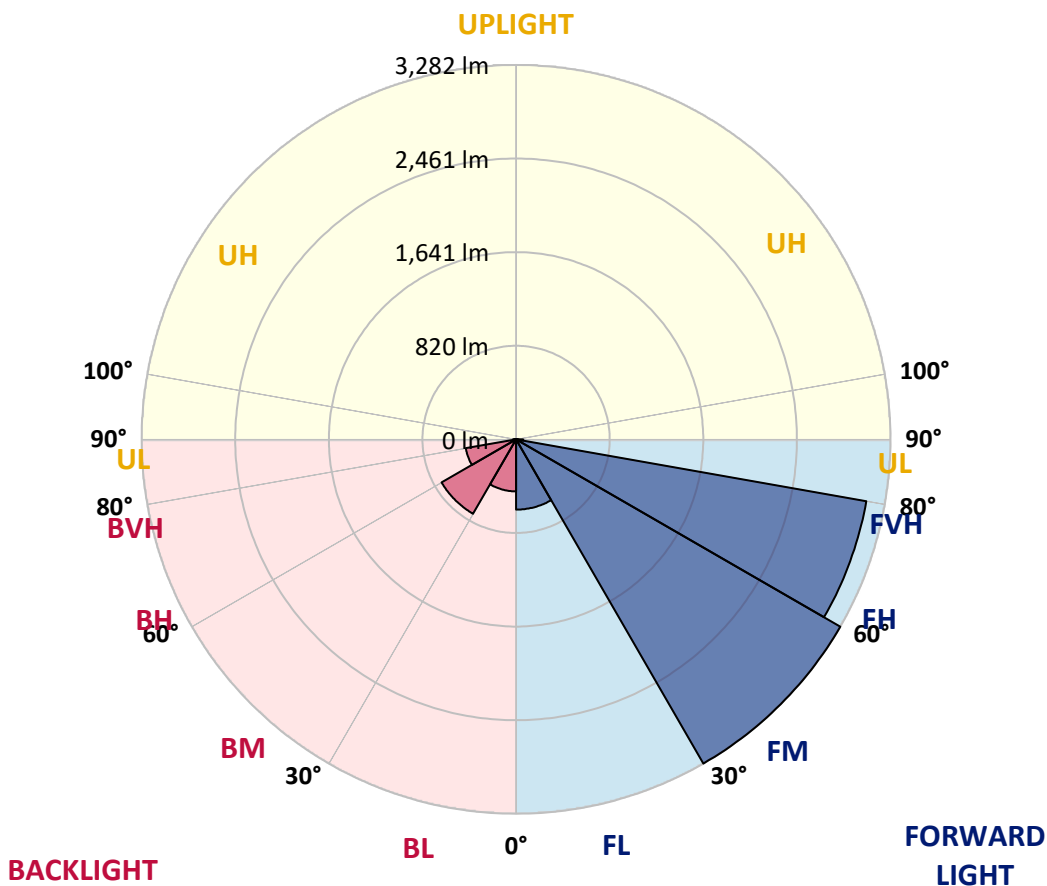
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.7	7.0			
FM (30°-60°)	3281.7	37.5			
FH (60°-80°)	3117.2	35.6			G2/5000
FVH (80°-90°)	62.1	0.7			G1/100
BL (0°-30°)	456.0	5.2	B1/500		
BM (30°-60°)	753.4	8.6	B1/1000		
BH (60°-80°)	447.7	5.1	B1/500		G1/500
BVH (80°-90°)	27.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1323.3	1315.9	1324.6	1328.9	1340.0	1356.1	1370.3	1370.9	1378.3	1396.2	1413.5
5°	1263.4	1259.7	1262.2	1275.2	1286.9	1307.3	1328.9	1330.8	1351.8	1387.0	1421.6
7.5°	1217.1	1212.1	1221.4	1238.1	1252.9	1275.8	1304.2	1306.7	1336.3	1389.4	1442.6
10°	1150.4	1146.6	1163.9	1186.2	1218.3	1256.0	1293.7	1296.8	1335.7	1405.5	1479.6
12.5°	1121.3	1121.3	1128.7	1149.7	1185.0	1235.0	1291.8	1296.8	1345.6	1430.2	1527.2
15°	1166.4	1169.5	1163.3	1162.1	1176.3	1223.9	1294.3	1301.7	1364.1	1455.6	1574.2
17.5°	1257.2	1260.3	1244.3	1218.9	1204.7	1234.4	1303.6	1311.6	1383.9	1483.4	1624.8
20°	1384.5	1388.2	1353.0	1314.1	1265.3	1264.7	1321.5	1328.9	1409.2	1513.6	1678.6
22.5°	1533.4	1535.9	1491.4	1429.6	1354.9	1320.9	1352.4	1359.8	1442.0	1555.6	1736.7
25°	1705.8	1713.2	1659.4	1569.8	1468.5	1398.1	1403.7	1412.3	1500.7	1611.9	1805.2
27.5°	1889.9	1899.1	1837.4	1738.5	1598.9	1483.4	1469.8	1477.2	1563.1	1646.5	1841.7
30°	2078.3	2085.1	2023.3	1910.3	1739.1	1579.7	1525.4	1529.7	1590.2	1663.1	1878.8
32.5°	2287.7	2282.2	2222.9	2092.5	1901.0	1695.3	1577.3	1576.0	1620.5	1696.5	1931.9
35°	2484.2	2492.2	2429.2	2285.3	2078.9	1838.0	1655.1	1650.2	1684.8	1750.9	2006.6
37.5°	2722.1	2719.6	2644.2	2488.5	2257.5	1974.5	1764.5	1755.8	1768.2	1835.5	2111.0
40°	2892.0	2909.3	2860.4	2715.3	2466.3	2142.6	1892.3	1873.2	1876.3	1939.9	2250.7
42.5°	3031.0	3047.0	3052.0	2959.3	2705.4	2350.1	2051.7	2032.6	2034.4	2124.6	2422.4
45°	3137.8	3159.5	3229.3	3202.1	2974.7	2589.8	2267.4	2247.6	2248.8	2348.9	2630.0
47.5°	3181.7	3205.2	3346.7	3411.5	3260.8	2876.5	2535.5	2506.4	2510.8	2621.4	2867.2
50°	3167.5	3199.0	3390.5	3572.8	3500.5	3168.1	2856.1	2835.7	2819.1	2979.7	3124.9
52.5°	3045.2	3079.8	3386.2	3675.3	3696.3	3443.7	3187.3	3175.5	3171.8	3360.3	3412.8
55°	2685.0	2743.1	3237.3	3702.5	3849.6	3703.1	3546.2	3526.4	3545.6	3768.0	3703.8
57.5°	2485.4	2528.7	2945.7	3672.2	3975.0	3950.3	3904.5	3906.4	3928.0	4211.0	4056.5
60°	2371.8	2422.4	2783.8	3589.5	4095.4	4250.5	4279.5	4279.5	4318.5	4688.5	4414.8
62.5°	2221.0	2272.3	2632.5	3430.1	4206.6	4603.9	4750.9	4749.1	4764.5	5200.7	4765.1
65°	1915.2	1962.8	2328.5	3178.6	4261.0	4993.1	5286.6	5281.0	5250.1	5656.6	4996.8
67.5°	1390.7	1435.8	1783.6	2700.4	4065.2	5307.0	5838.3	5840.7	5656.0	5943.9	5009.2
70°	916.8	947.7	1146.6	1754.0	3305.9	5171.7	6069.3	6076.7	5718.4	5764.8	4458.1
72.5°	572.1	593.7	716.0	1045.9	1953.5	4093.6	5476.2	5496.6	5144.5	5066.0	3663.0
75°	380.0	394.8	476.3	609.8	903.9	2215.5	4162.8	4228.3	4123.2	3971.3	2552.2
77.5°	228.6	240.9	303.3	387.4	400.3	865.5	2429.8	2599.1	2613.9	2073.4	1068.8
80°	104.4	118.6	167.4	221.2	213.1	301.5	856.9	896.4	1057.7	658.6	337.3
82.5°	61.8	68.0	111.2	110.0	90.8	146.4	308.3	316.3	268.7	240.9	143.9
85°	24.7	29.0	47.0	41.4	33.4	47.6	116.1	121.7	116.8	105.0	53.1
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.5	11.1	16.1	29.0	16.1
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°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1424.7	1421.0	1439.5	1453.7	1459.9	1466.1	1460.5	1458.6	1458.6	1446.3	1440.1
5°	1440.1	1442.0	1467.3	1479.0	1479.0	1474.1	1459.3	1448.8	1445.1	1429.0	1424.7
7.5°	1469.1	1477.2	1500.7	1500.0	1482.7	1455.6	1418.5	1390.1	1364.1	1353.0	1346.2
10°	1516.7	1527.2	1543.3	1517.3	1469.1	1397.5	1319.0	1257.2	1220.2	1190.5	1190.5
12.5°	1571.1	1581.0	1577.9	1518.0	1418.5	1284.4	1171.4	1100.3	1048.4	1021.2	1021.2
15°	1625.5	1633.5	1600.1	1489.5	1312.8	1134.3	1010.7	925.5	880.4	855.0	855.0
17.5°	1680.4	1679.8	1609.4	1424.0	1175.1	968.1	847.0	780.9	765.5	761.1	760.5
20°	1733.6	1719.4	1597.6	1314.7	1015.1	800.7	724.1	728.4	751.3	761.1	762.4
22.5°	1793.5	1758.3	1563.1	1175.1	833.4	684.5	689.5	725.3	758.7	773.5	775.3
25°	1854.7	1791.6	1505.0	1011.4	681.4	641.9	680.2	720.4	758.0	777.2	779.1
27.5°	1879.4	1791.6	1406.1	821.7	600.5	624.0	666.0	704.9	744.5	766.7	771.0
30°	1899.8	1776.2	1267.7	650.6	567.1	606.7	643.1	679.0	717.9	745.1	750.0
32.5°	1928.2	1762.6	1100.3	546.8	551.7	590.0	615.3	645.6	680.8	698.7	696.9
35°	1961.5	1741.6	898.3	497.3	538.7	575.8	593.7	611.6	595.6	594.9	596.8
37.5°	2009.1	1723.1	722.2	475.1	530.1	565.9	580.7	542.4	520.2	510.9	507.2
40°	2077.7	1715.6	569.6	462.1	528.8	565.3	554.8	495.5	465.2	433.1	432.5
42.5°	2164.2	1710.1	470.8	455.9	533.2	579.5	519.0	464.6	402.2	388.0	386.7
45°	2275.4	1701.4	421.3	454.7	543.7	590.6	515.3	422.0	379.3	373.2	373.2
47.5°	2409.4	1687.8	399.1	454.7	555.4	585.7	504.1	412.7	368.8	375.6	380.0
50°	2563.3	1670.6	387.4	453.5	567.1	585.7	480.7	410.8	366.4	401.6	415.8
52.5°	2727.6	1650.8	379.3	448.5	575.2	586.3	481.9	417.0	368.8	407.8	419.5
55°	2909.3	1647.7	368.2	438.0	577.6	570.2	485.0	430.6	372.5	369.4	370.1
57.5°	3138.5	1684.8	360.2	422.6	567.8	537.5	491.2	440.5	368.2	368.8	373.2
60°	3378.2	1754.6	367.0	407.8	547.4	506.6	495.5	435.6	347.2	337.3	338.6
62.5°	3582.0	1807.7	372.5	401.0	517.7	479.4	491.2	424.4	335.5	333.0	338.6
65°	3667.3	1763.8	358.9	386.7	474.5	446.1	481.9	410.2	325.6	316.3	316.9
67.5°	3572.8	1558.1	332.4	355.2	425.7	403.4	467.1	391.7	312.0	300.9	298.4
70°	3052.0	1144.8	286.7	305.2	366.4	353.4	444.2	367.6	290.4	282.3	276.8
72.5°	2459.5	810.6	237.9	242.8	287.3	297.8	404.7	337.3	265.7	242.8	234.8
75°	1711.9	509.1	198.3	193.4	207.6	227.4	315.7	279.9	229.2	205.1	197.7
77.5°	736.4	261.3	155.1	152.6	138.4	157.5	242.2	233.5	192.1	164.3	160.0
80°	246.5	151.4	111.8	107.5	92.1	110.6	170.5	186.6	150.7	121.7	114.3
82.5°	123.6	87.7	71.0	64.3	61.8	69.8	100.7	116.1	104.4	84.0	71.0
85°	60.5	50.0	38.9	38.3	32.1	30.3	42.0	49.4	47.0	34.6	32.7
87.5°	22.2	19.8	12.4	9.9	6.2	4.3	2.5	2.5	1.9	1.9	1.9
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)