

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: P631322

Luminaire Tested: GWS-SA1F-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8279 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

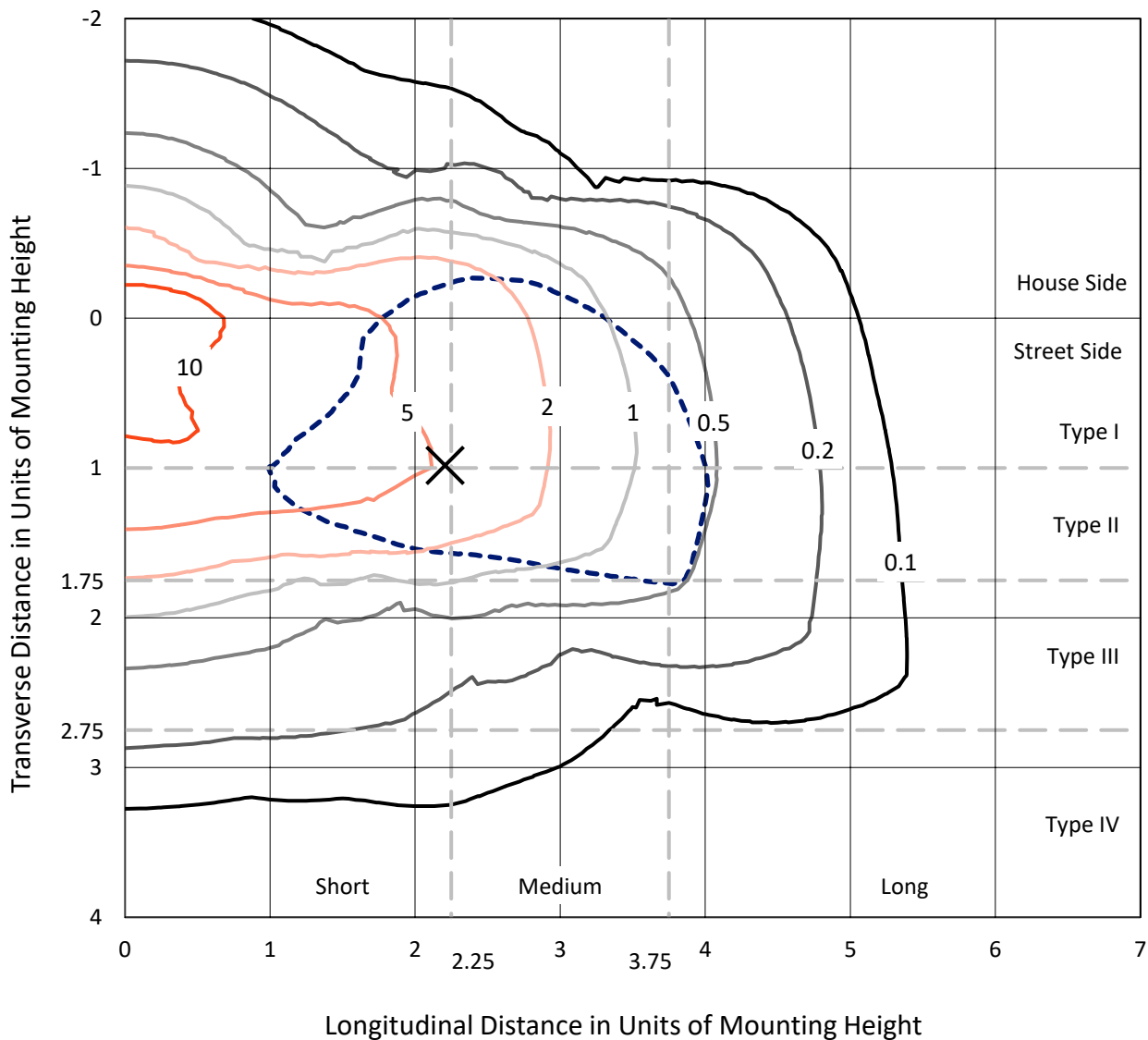
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631322
 CATALOG NUMBER: GWS-SA1F-740-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

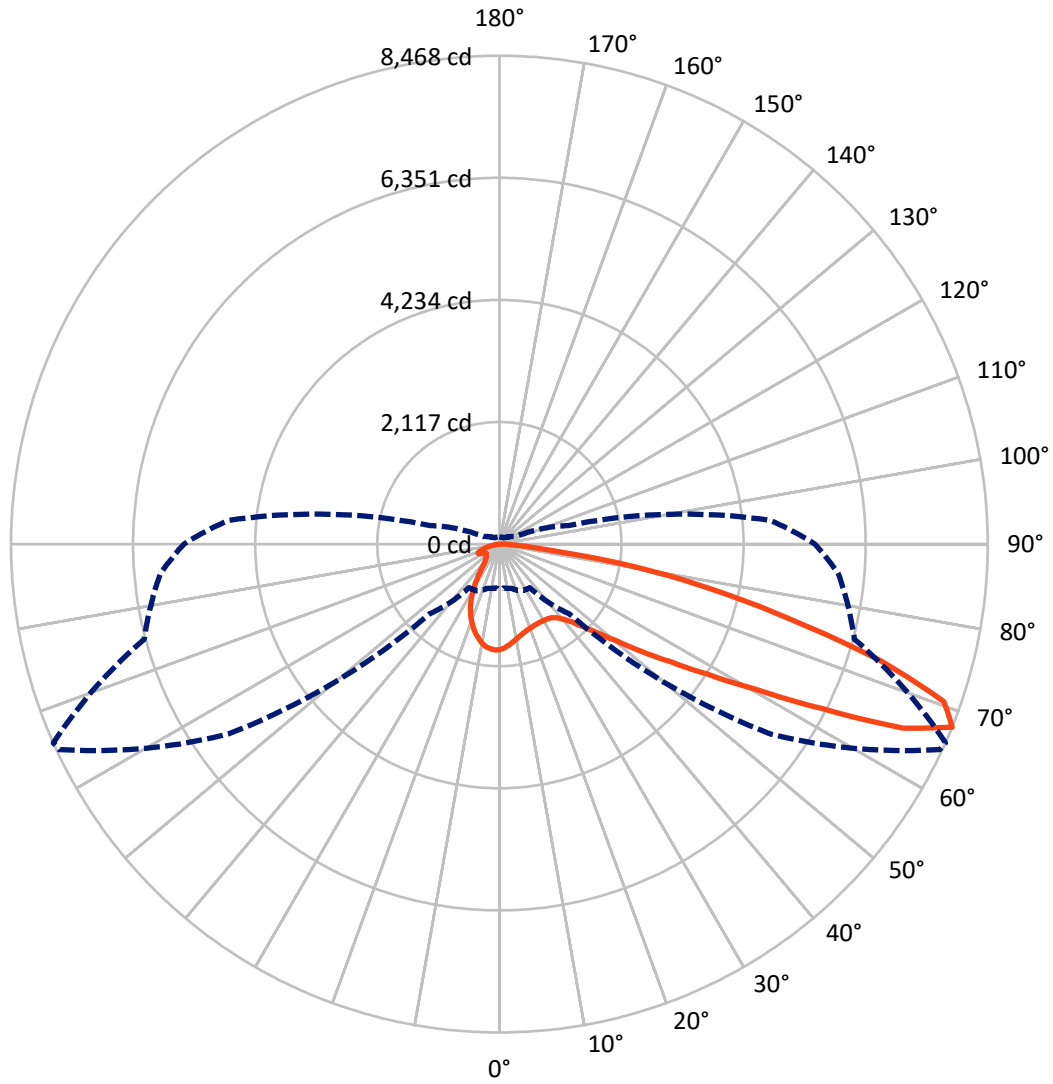
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA1F-740-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.0	0.0	1680.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6599.0	0.0	6599.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	8279.0	0.0	8279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.9
10°-20°	394.6	4.8
20°-30°	542.4	6.6
30°-40°	741.5	9.0
40°-50°	1123.6	13.6
50°-60°	1746.6	21.1
60°-70°	2126.5	25.7
70°-80°	1295.4	15.6
80°-90°	148.0	1.8
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°	8279.0	100.0
0°-180°	8279.0	100.0

Coefficient of Utilization



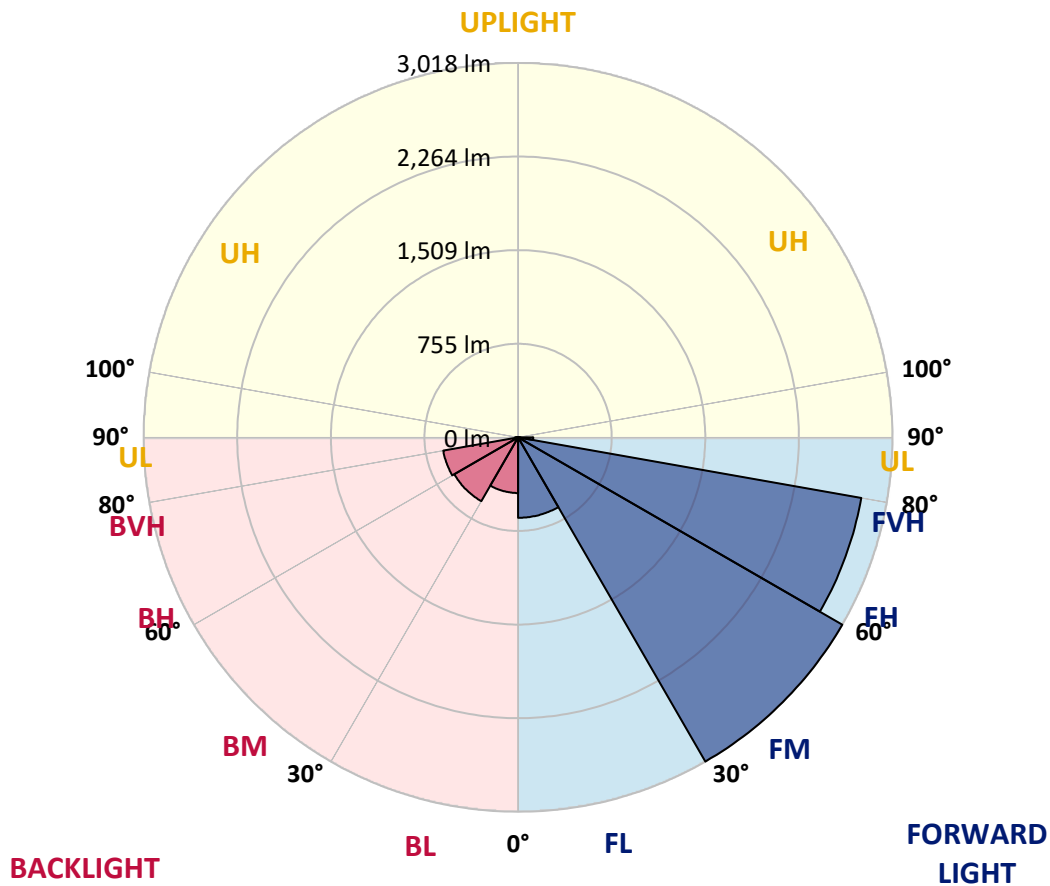
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.7	7.8			
FM (30°-60°)	3018.0	36.5			
FH (60°-80°)	2809.3	33.9			G2/5000
FVH (80°-90°)	123.0	1.5			G2/225
BL (0°-30°)	448.8	5.4	B1/500		
BM (30°-60°)	593.7	7.2	B1/1000		
BH (60°-80°)	612.6	7.4	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.3			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 II Short





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 CATALOG NUMBER: GWS-SA1F-740-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4
2.5°	1713.5	1719.5	1715.9	1738.8	1740.0	1769.0	1785.3	1799.2	1800.4	1818.6	1830.6
5°	1596.3	1599.9	1599.9	1621.7	1636.2	1674.8	1712.3	1752.1	1755.1	1798.6	1831.8
7.5°	1501.5	1505.1	1502.7	1531.7	1550.4	1593.3	1641.0	1702.0	1708.0	1778.1	1836.1
10°	1427.2	1426.0	1432.0	1458.6	1482.7	1534.1	1587.2	1656.7	1665.7	1754.5	1840.9
12.5°	1376.4	1377.7	1381.3	1409.1	1435.0	1485.8	1540.7	1616.2	1625.9	1727.4	1838.5
15°	1352.3	1349.9	1352.9	1378.3	1403.0	1447.7	1504.5	1582.4	1592.1	1703.2	1839.1
17.5°	1346.9	1345.0	1344.4	1362.6	1381.3	1423.0	1477.3	1556.4	1566.7	1687.5	1842.7
20°	1363.8	1361.3	1354.7	1362.6	1370.4	1405.4	1458.0	1537.7	1549.2	1677.2	1850.0
22.5°	1410.3	1406.0	1395.8	1386.1	1375.8	1397.0	1445.9	1523.8	1535.3	1670.6	1857.2
25°	1480.9	1477.3	1466.4	1444.7	1407.2	1403.6	1443.5	1517.8	1529.3	1665.7	1860.2
27.5°	1578.2	1572.7	1561.9	1530.5	1469.5	1428.4	1452.5	1517.2	1528.0	1660.3	1857.2
30°	1693.5	1689.9	1683.9	1645.8	1564.3	1480.9	1473.1	1522.0	1530.5	1657.3	1851.2
32.5°	1810.7	1807.1	1811.9	1793.8	1693.5	1567.9	1517.8	1535.3	1541.3	1656.7	1845.7
35°	1914.0	1918.2	1953.2	1956.3	1857.8	1685.7	1588.4	1566.1	1567.3	1668.8	1848.1
37.5°	2022.1	2038.4	2084.3	2123.6	2041.4	1841.5	1693.5	1624.1	1622.9	1699.6	1863.2
40°	2165.2	2172.5	2231.1	2304.7	2253.4	2055.3	1842.7	1718.9	1710.4	1762.4	1903.7
42.5°	2304.7	2322.3	2415.9	2500.4	2483.5	2296.3	2030.5	1860.8	1845.7	1873.5	1987.1
45°	2482.3	2499.2	2604.3	2713.0	2743.8	2568.7	2270.9	2062.6	2047.5	2040.8	2139.9
47.5°	2659.9	2677.4	2771.6	2928.6	3036.8	2909.3	2583.8	2328.9	2304.1	2278.2	2370.6
50°	2779.5	2800.0	2890.0	3078.4	3332.1	3334.5	2954.6	2678.0	2646.6	2605.5	2695.5
52.5°	2775.2	2788.5	2874.3	3091.7	3544.7	3823.1	3451.1	3122.5	3097.2	3007.8	3086.3
55°	2557.2	2577.1	2663.5	2935.3	3567.6	4286.4	4180.7	3646.8	3601.5	3441.4	3527.8
57.5°	2119.3	2136.2	2223.2	2558.4	3364.1	4523.7	5107.2	4314.8	4252.6	3913.7	4013.4
60°	1599.9	1579.4	1620.5	1914.0	2877.3	4529.8	5924.9	5220.7	5116.8	4418.6	4502.0
62.5°	1200.7	1180.2	1189.2	1272.0	1950.8	4163.8	6391.2	6460.1	6288.5	4988.8	4972.5
65°	948.8	937.4	963.3	1020.1	1137.3	3170.8	6394.8	7800.3	7692.2	5649.5	5455.1
67.5°	773.1	765.8	792.4	897.5	922.3	1703.8	5734.1	8426.0	8468.3	6373.1	5902.6
70°	622.7	611.8	653.5	791.8	857.6	1031.0	4107.6	8107.1	8175.3	6804.3	5776.4
72.5°	430.0	430.6	451.8	641.4	828.0	890.3	2323.5	6750.6	6898.5	6413.6	5078.2
75°	289.9	292.3	298.4	423.4	762.8	863.7	1238.1	5110.8	5215.3	5301.0	4197.6
77.5°	175.2	176.4	190.3	256.1	526.1	806.3	838.9	3704.7	3786.9	3494.6	2601.9
80°	101.5	105.7	118.4	171.5	355.1	605.8	649.3	2271.5	2364.5	1553.4	826.8
82.5°	44.7	47.7	64.6	99.7	207.2	515.2	506.7	897.5	884.2	433.0	286.9
85°	7.9	9.7	13.9	31.4	76.1	271.8	393.2	396.2	372.6	164.3	119.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	59.2	106.3	105.7	46.5	41.1
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°	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4	1829.4
2.5°	1838.5	1822.2	1836.7	1838.5	1835.5	1833.0	1814.9	1799.2	1797.4	1780.5	1780.5
5°	1845.1	1830.0	1837.3	1823.4	1801.6	1779.3	1740.6	1714.1	1702.0	1680.2	1680.2
7.5°	1854.2	1838.5	1830.0	1795.6	1744.9	1695.9	1633.7	1581.8	1560.7	1529.9	1528.6
10°	1862.6	1842.7	1813.7	1746.7	1665.7	1587.8	1497.2	1423.6	1373.4	1336.6	1336.6
12.5°	1862.0	1836.1	1778.7	1679.6	1567.9	1455.0	1334.2	1223.0	1156.6	1099.2	1095.6
15°	1860.8	1825.2	1734.0	1601.7	1453.8	1297.3	1133.0	988.1	889.6	833.5	828.6
17.5°	1859.6	1811.3	1683.9	1512.9	1314.8	1101.6	884.8	727.8	645.6	611.2	612.4
20°	1859.6	1795.6	1630.1	1410.9	1154.8	867.3	649.3	535.1	514.6	516.4	518.2
22.5°	1854.2	1776.3	1570.3	1299.7	976.6	637.8	478.9	440.3	451.2	468.1	470.5
25°	1841.5	1744.3	1500.9	1176.5	764.6	464.5	390.8	383.5	403.5	424.6	430.6
27.5°	1821.6	1707.4	1423.0	1032.2	562.9	373.3	343.7	343.1	358.8	374.5	379.9
30°	1800.4	1666.4	1340.8	871.5	407.7	324.9	313.5	313.5	321.3	331.0	329.8
32.5°	1775.7	1624.7	1252.6	704.2	332.2	297.8	294.1	292.3	293.5	297.2	297.2
35°	1754.5	1587.8	1162.0	527.3	297.8	282.7	279.0	274.8	273.0	270.6	271.8
37.5°	1746.7	1558.8	1068.4	397.4	280.8	271.8	265.7	259.7	255.5	254.3	253.7
40°	1759.4	1546.8	974.8	327.4	268.8	260.3	253.7	245.8	242.2	242.2	242.2
42.5°	1808.9	1555.8	879.4	295.9	260.3	250.6	241.0	233.7	232.5	233.7	234.3
45°	1899.5	1590.9	780.3	280.2	253.1	241.0	229.5	224.1	224.1	225.3	225.3
47.5°	2061.3	1682.7	682.5	270.6	245.8	233.1	221.1	215.6	215.0	216.2	216.2
50°	2341.6	1848.1	594.3	263.9	240.4	227.1	215.0	207.8	206.0	205.3	205.3
52.5°	2694.9	2135.0	538.1	259.1	233.7	220.4	208.4	198.7	195.1	193.3	193.3
55°	3121.9	2517.3	538.1	255.5	225.3	212.6	198.7	189.0	183.6	181.2	181.2
57.5°	3605.7	2962.5	631.1	252.5	218.6	203.5	188.4	178.8	172.7	169.1	169.1
60°	4097.9	3433.0	861.3	248.2	212.6	192.1	177.0	167.9	160.1	155.8	155.2
62.5°	4608.3	3951.2	1164.5	250.6	208.4	181.2	164.9	154.6	148.0	143.7	143.1
65°	5075.8	4444.6	1429.6	269.4	209.0	171.5	151.0	141.9	136.5	131.1	130.5
67.5°	5472.6	4717.0	1243.6	307.4	221.7	160.1	137.1	128.0	123.2	119.6	119.0
70°	5194.7	4301.5	705.4	331.0	239.2	148.0	121.4	115.4	110.5	108.1	107.5
72.5°	4442.2	3641.9	471.7	292.3	218.0	132.3	106.9	102.1	98.4	95.4	94.8
75°	3598.5	2888.2	360.6	239.8	169.7	107.5	91.8	88.2	84.6	81.5	80.9
77.5°	2129.0	1668.8	265.7	189.6	119.6	84.0	76.1	73.1	69.5	67.0	66.4
80°	679.5	579.8	168.5	130.5	79.1	64.6	58.6	56.2	52.5	49.5	48.9
82.5°	259.1	224.1	89.4	66.4	52.5	44.1	39.3	36.8	34.4	31.4	30.8
85°	114.8	107.5	49.5	35.6	28.4	21.7	19.3	18.1	15.1	12.7	12.1
87.5°	40.5	40.5	21.1	10.3	6.0	3.0	1.8	0.6	0.0	0.0	0.0
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)