

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: P636912

Luminaire Tested: GWS-SA4B-760-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14478 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

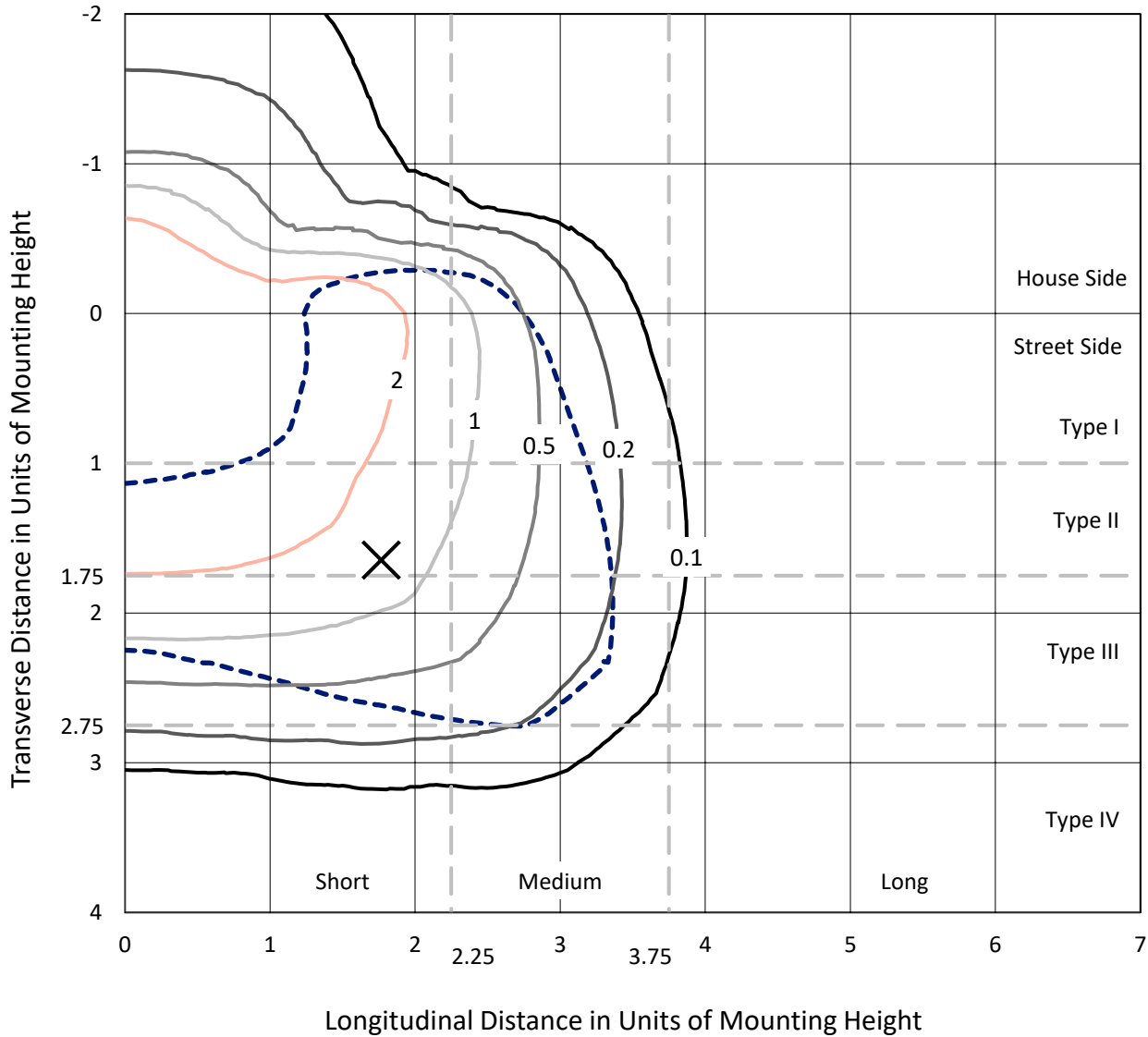
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

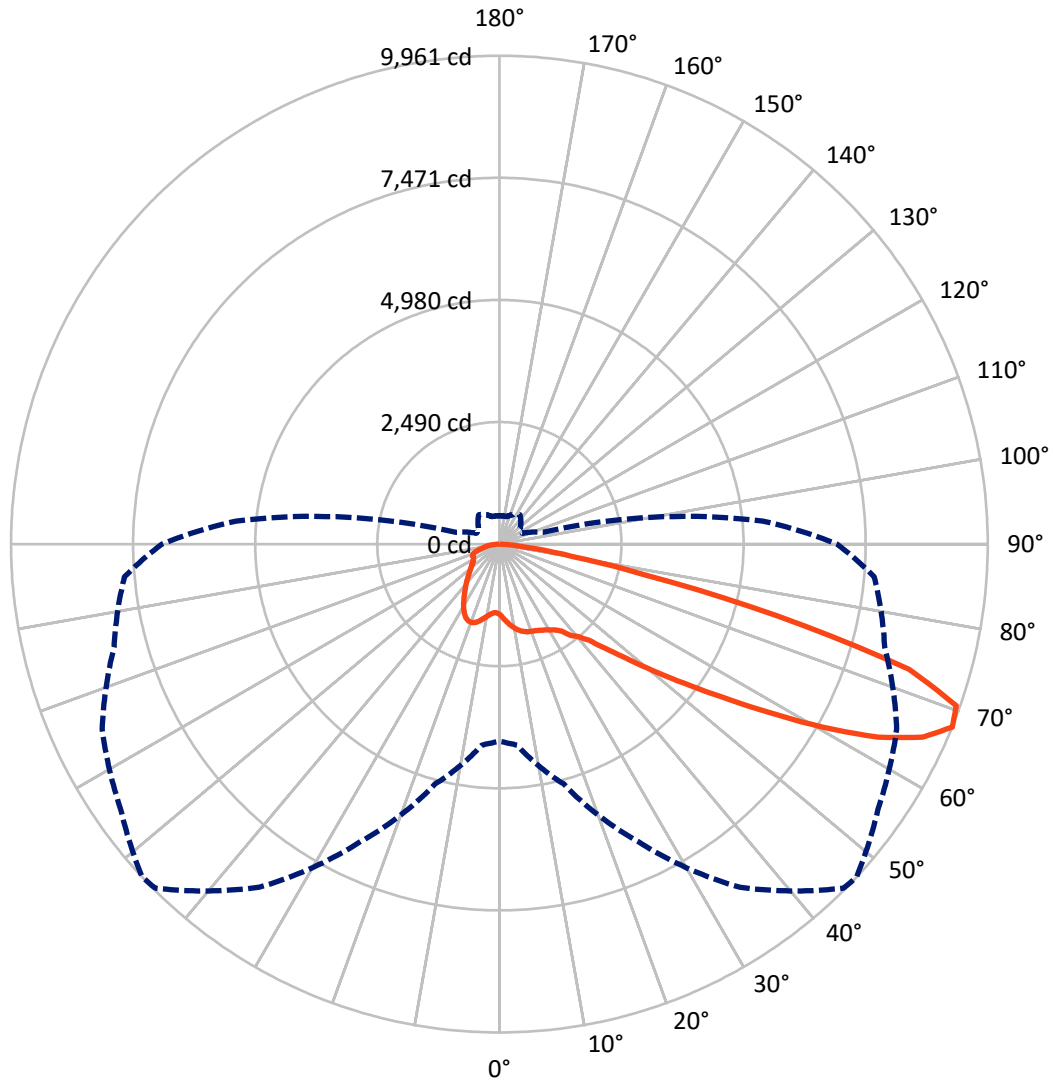
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.7	0.0	3299.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11178.4	0.0	11178.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	14478.0	0.0	14478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	1.0
10°-20°	488.7	3.4
20°-30°	830.6	5.7
30°-40°	1216.8	8.4
40°-50°	1853.9	12.8
50°-60°	3317.1	22.9
60°-70°	4426.3	30.6
70°-80°	2001.7	13.8
80°-90°	196.1	1.4
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°	14478.0	100.0
0°-180°	14478.0	100.0

Coefficient of Utilization



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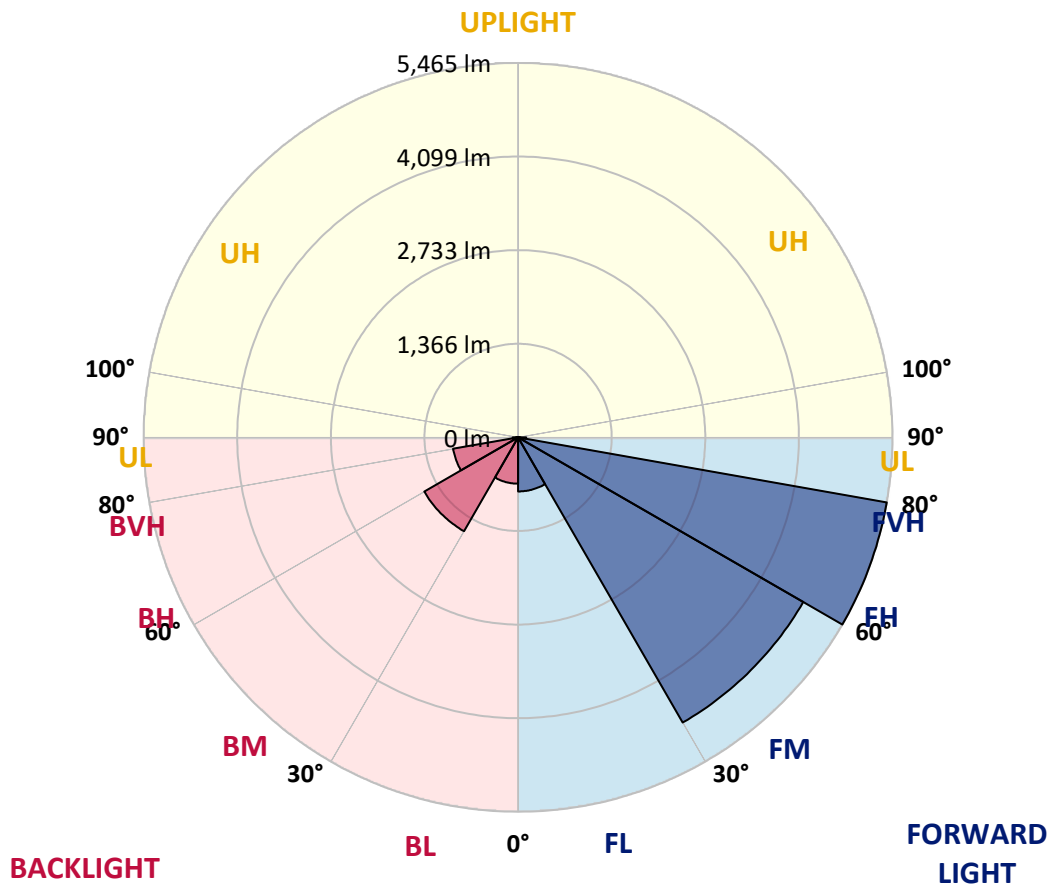
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.6	5.5			
FM (30°-60°)	4806.8	33.2			
FH (60°-80°)	5465.3	37.7			G3/7500
FVH (80°-90°)	116.6	0.8			G2/225
BL (0°-30°)	676.4	4.7	B2/1000		
BM (30°-60°)	1581.0	10.9	B2/2500		
BH (60°-80°)	962.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	79.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1530.5	1535.7	1534.7	1526.3	1521.1	1511.6	1512.7	1498.0	1476.1	1461.4	1444.6
5°	1665.5	1673.9	1663.4	1649.8	1628.9	1598.5	1595.4	1561.9	1520.0	1490.7	1460.4
7.5°	1782.8	1788.0	1775.5	1752.4	1722.1	1681.2	1673.9	1634.1	1581.8	1535.7	1491.8
10°	1873.9	1880.1	1863.4	1833.0	1793.2	1752.4	1747.2	1706.4	1650.9	1596.4	1541.0
12.5°	1951.3	1953.4	1935.6	1894.8	1851.9	1810.0	1804.8	1767.1	1715.8	1660.3	1599.6
15°	1996.3	1997.4	1975.4	1930.4	1889.6	1852.9	1849.8	1817.3	1770.2	1717.9	1653.0
17.5°	1993.2	1995.3	1979.6	1939.8	1904.2	1882.2	1879.1	1858.2	1821.5	1774.4	1709.5
20°	1954.5	1956.6	1946.1	1919.9	1901.1	1894.8	1895.8	1889.6	1867.6	1828.8	1762.9
22.5°	1924.1	1927.2	1917.8	1899.0	1896.9	1911.5	1914.7	1917.8	1907.4	1872.8	1809.0
25°	1938.8	1944.0	1929.3	1903.2	1907.4	1939.8	1946.1	1956.6	1948.2	1918.9	1863.4
27.5°	2040.3	2043.4	2005.8	1952.4	1939.8	1974.4	1983.8	2000.5	1994.2	1967.0	1924.1
30°	2275.8	2273.8	2193.1	2062.3	2009.9	2023.6	2030.9	2055.0	2057.1	2039.3	1998.4
32.5°	2607.7	2597.2	2472.7	2264.3	2112.5	2079.0	2087.4	2119.9	2143.9	2125.1	2069.6
35°	2958.4	2949.0	2811.8	2567.9	2302.0	2185.8	2176.4	2201.5	2238.2	2185.8	2106.3
37.5°	3292.3	3277.7	3137.4	2835.9	2535.5	2373.2	2359.6	2334.5	2312.5	2212.0	2151.3
40°	3662.9	3646.2	3523.7	3182.4	2793.0	2516.6	2482.1	2382.6	2362.7	2298.9	2268.5
42.5°	4058.6	4058.6	3957.1	3621.0	3103.9	2721.8	2676.8	2527.1	2548.0	2506.2	2470.6
45°	4454.3	4465.9	4385.2	4062.8	3519.5	3109.1	3036.9	2824.4	2874.6	2855.8	2838.0
47.5°	4791.4	4813.4	4797.7	4514.0	4028.3	3580.2	3470.3	3249.4	3357.2	3402.3	3452.5
50°	5154.7	5178.8	5163.1	5051.0	4623.9	4150.8	4052.3	3824.1	4009.4	4144.5	4308.8
52.5°	5693.8	5728.3	5597.5	5554.6	5347.3	4798.7	4710.8	4451.2	4787.2	5011.3	5377.7
55°	6149.2	6148.1	6102.1	6200.5	6124.1	5591.2	5493.9	5258.3	5687.5	5925.2	6461.1
57.5°	6360.6	6385.8	6543.8	6822.3	6975.1	6559.5	6466.4	6225.6	6653.8	6777.3	7356.2
60°	6469.5	6500.9	6806.6	7357.2	7768.7	7616.9	7580.2	7273.5	7514.3	7499.6	8111.0
62.5°	6316.7	6379.5	6870.5	7602.2	8335.0	8679.4	8667.9	8204.1	8246.0	8102.6	8578.9
65°	5615.3	5683.3	6453.8	7479.7	8658.5	9487.6	9490.7	9046.9	8808.2	8395.7	8500.4
67.5°	4015.7	4113.1	5065.7	6692.5	8544.4	9924.1	9960.8	9429.0	8940.1	8136.1	7675.5
70°	2189.0	2260.1	3006.5	4864.7	7516.4	9819.4	9887.5	9244.7	8358.0	7038.0	5908.4
72.5°	994.5	1017.5	1398.6	2669.5	5134.8	8452.2	8737.0	8250.2	6864.2	5198.6	3757.1
75°	455.4	465.8	609.3	1277.2	2683.1	5656.1	5856.1	6145.0	4776.8	3282.9	1958.7
77.5°	285.8	288.9	346.5	584.1	1337.9	2823.3	3033.8	3658.7	2797.2	1624.7	818.6
80°	168.5	171.7	215.7	316.1	628.1	1291.8	1491.8	1446.7	1314.8	701.4	372.7
82.5°	84.8	87.9	124.6	180.1	342.3	514.0	605.1	608.2	489.9	380.0	210.4
85°	30.4	31.4	40.8	71.2	145.5	169.6	189.5	231.4	239.7	220.9	101.5
87.5°	0.0	0.0	1.0	2.1	4.2	16.7	17.8	33.5	70.1	78.5	40.8
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1439.4	1423.7	1418.5	1413.2	1404.9	1401.7	1395.4	1389.2	1389.2	1382.9	1379.7
5°	1446.7	1425.8	1412.2	1405.9	1400.7	1403.8	1403.8	1405.9	1413.2	1409.1	1411.2
7.5°	1472.9	1448.8	1430.0	1424.8	1424.8	1437.3	1445.7	1456.2	1469.8	1471.9	1471.9
10°	1519.0	1490.7	1470.8	1467.7	1472.9	1490.7	1503.3	1515.8	1532.6	1533.6	1535.7
12.5°	1569.2	1541.0	1521.1	1525.3	1530.5	1553.5	1567.1	1577.6	1594.3	1594.3	1593.3
15°	1621.6	1590.2	1573.4	1581.8	1597.5	1623.7	1625.8	1626.8	1635.2	1633.1	1632.0
17.5°	1676.0	1642.5	1629.9	1642.5	1659.3	1671.8	1661.3	1646.7	1643.6	1639.4	1637.3
20°	1729.4	1694.8	1689.6	1699.0	1704.3	1693.8	1661.3	1634.1	1621.6	1615.3	1613.2
22.5°	1775.5	1746.1	1743.0	1743.0	1716.8	1680.2	1632.0	1595.4	1578.6	1570.3	1568.2
25°	1829.9	1802.7	1797.4	1769.2	1702.2	1635.2	1570.3	1536.8	1523.2	1519.0	1520.0
27.5°	1893.7	1874.9	1858.2	1777.5	1660.3	1555.6	1482.3	1467.7	1462.4	1467.7	1470.8
30°	1972.3	1953.4	1915.7	1767.1	1593.3	1452.0	1381.8	1380.8	1396.5	1410.1	1412.2
32.5°	2036.1	2027.7	1966.0	1733.6	1499.1	1337.9	1278.2	1282.4	1310.7	1329.5	1332.6
35°	2086.4	2100.0	2007.9	1678.1	1387.1	1230.0	1182.9	1185.0	1200.7	1226.9	1228.0
37.5°	2157.6	2203.6	2045.5	1593.3	1258.3	1136.9	1094.0	1078.3	1076.2	1083.5	1085.6
40°	2301.0	2370.1	2072.8	1469.8	1133.7	1053.1	1005.0	974.6	948.4	928.6	922.3
42.5°	2517.7	2597.2	2088.5	1320.1	1022.8	970.4	916.0	877.3	831.2	789.3	774.7
45°	2915.5	2941.6	2088.5	1161.0	924.4	893.0	838.5	792.5	733.8	684.6	674.2
47.5°	3552.0	3468.2	2090.6	1007.1	837.5	824.9	777.8	725.5	660.6	619.7	613.5
50°	4510.9	4216.7	2133.5	879.4	765.2	767.3	732.8	675.2	616.6	586.2	581.0
52.5°	5597.5	5139.0	2248.6	785.1	704.5	720.2	701.4	645.9	593.6	567.4	562.2
55°	6619.2	5986.9	2347.0	718.1	653.2	680.5	679.4	628.1	581.0	554.8	551.7
57.5°	7488.1	6567.9	2332.4	663.7	609.3	643.8	659.5	616.6	572.6	550.6	547.5
60°	8028.3	6875.7	2124.1	613.5	575.8	617.6	648.0	613.5	576.8	571.6	572.6
62.5°	8262.8	6819.2	1724.2	575.8	553.8	605.1	660.6	635.4	615.5	628.1	635.4
65°	7898.5	6333.4	1268.8	547.5	532.8	608.2	689.9	670.0	615.5	623.9	627.1
67.5°	6887.2	5391.3	917.0	519.2	506.7	617.6	731.7	664.7	580.0	580.0	573.7
70°	4963.1	3877.5	665.8	491.0	480.5	604.0	733.8	629.2	539.1	536.0	520.3
72.5°	2986.7	2287.4	519.2	459.6	440.7	536.0	687.8	587.3	499.3	473.2	454.3
75°	1551.4	1146.3	435.5	425.0	377.9	454.3	629.2	522.4	427.1	404.1	393.6
77.5°	664.7	536.0	373.7	379.0	314.1	382.1	507.7	452.2	379.0	349.6	340.2
80°	327.7	304.6	295.2	303.6	251.2	295.2	437.6	395.7	321.4	287.9	274.3
82.5°	187.4	178.0	212.5	215.7	179.0	247.1	369.5	335.0	265.9	229.3	207.3
85°	86.9	93.2	128.8	129.8	111.0	169.6	241.8	188.4	141.3	117.2	112.0
87.5°	34.5	40.8	56.5	55.5	32.5	31.4	20.9	11.5	9.4	8.4	7.3
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)