

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: P631282

Luminaire Tested: GWS-SA1F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8294.2 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

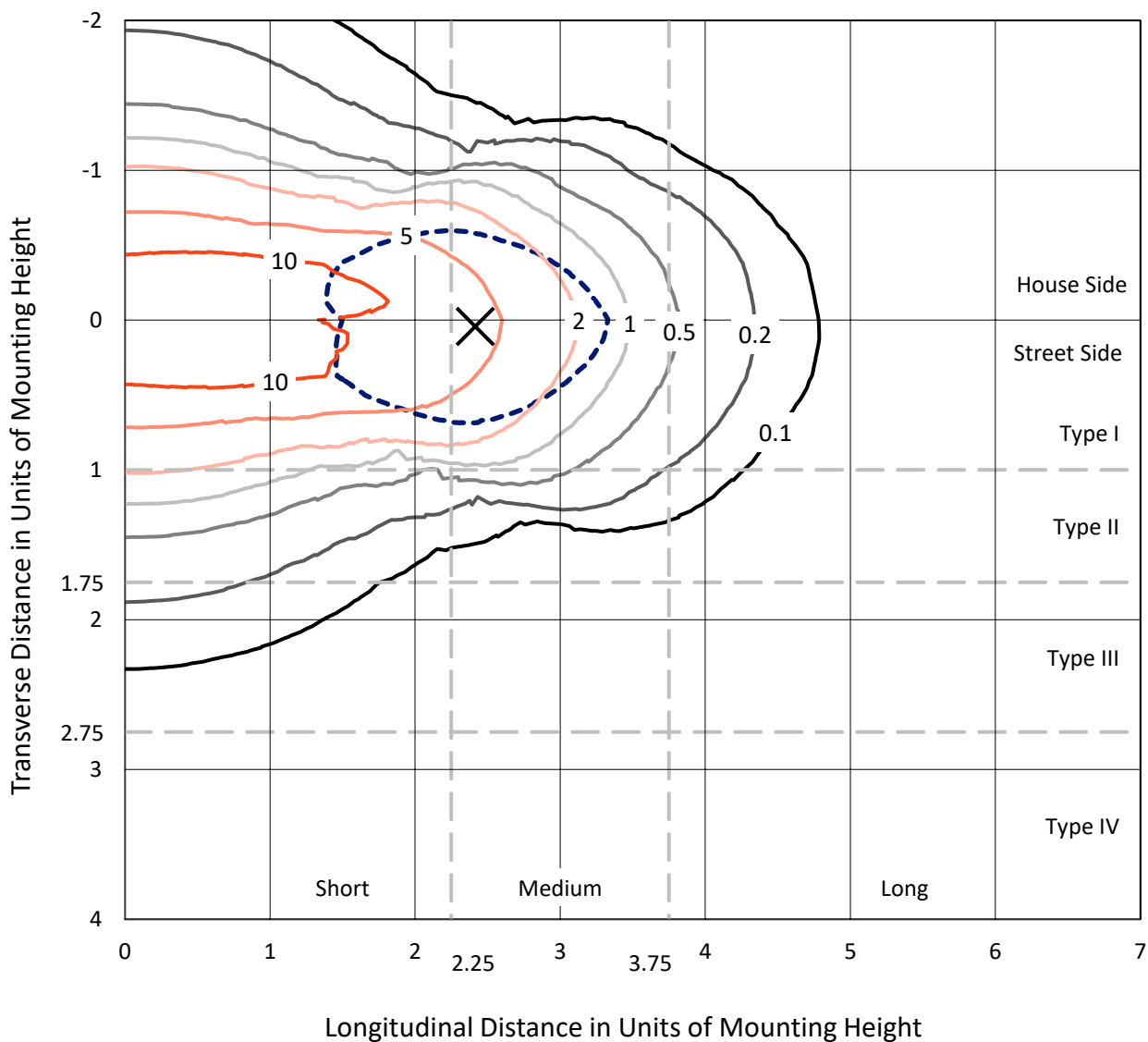
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

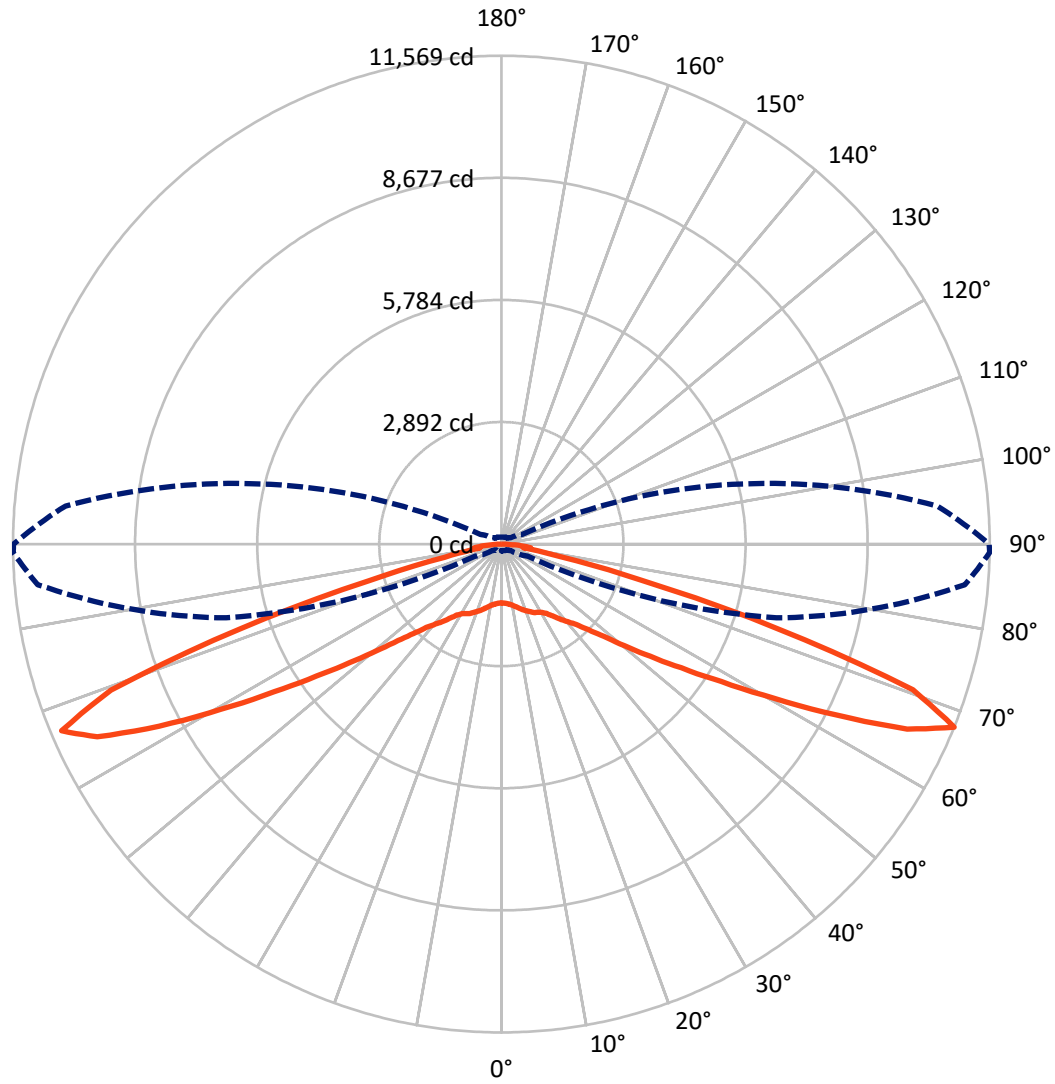
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4110.8	0.0	4110.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4183.4	0.0	4183.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	8294.2	0.0	8294.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.7
10°-20°	454.7	5.5
20°-30°	768.6	9.3
30°-40°	1054.8	12.7
40°-50°	1345.2	16.2
50°-60°	1687.7	20.3
60°-70°	2035.5	24.5
70°-80°	736.4	8.9
80°-90°	71.6	0.9
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°	8294.2	100.0
0°-180°	8294.2	100.0

Coefficient of Utilization



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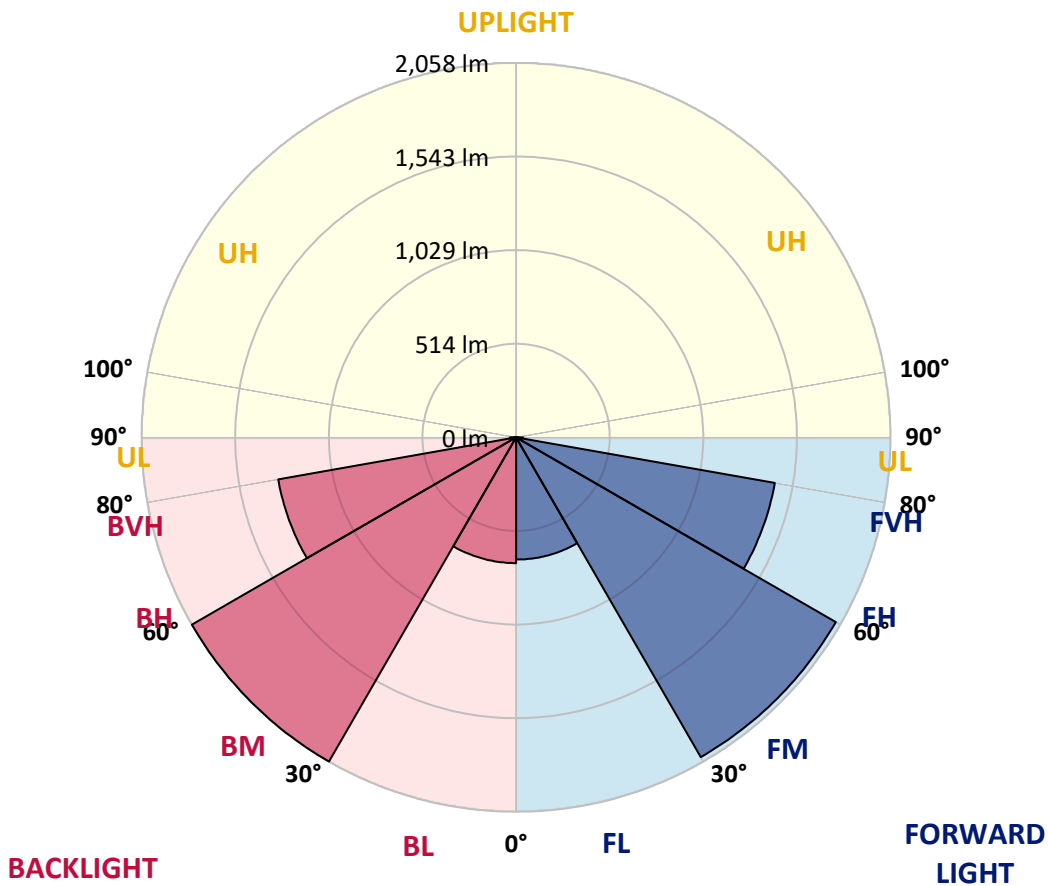
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.8	8.1			
FM (30°-60°)	2029.8	24.5			
FH (60°-80°)	1444.1	17.4			G1/1800
FVH (80°-90°)	37.8	0.5			G1/100
BL (0°-30°)	691.2	8.3	B2/1000		
BM (30°-60°)	2058.0	24.8	B2/2500		
BH (60°-80°)	1327.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	33.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1
2.5°	1396.3	1395.1	1392.1	1401.0	1399.3	1399.9	1403.4	1401.0	1396.9	1389.7	1389.7	1399.9
5°	1435.6	1435.0	1428.5	1433.8	1427.9	1423.7	1423.1	1417.1	1412.4	1404.6	1404.6	1415.3
7.5°	1473.7	1473.1	1467.8	1477.3	1472.5	1467.8	1462.4	1450.5	1439.2	1427.9	1427.9	1439.8
10°	1502.9	1502.3	1501.1	1514.8	1516.0	1517.8	1515.4	1495.2	1475.5	1461.8	1461.8	1473.7
12.5°	1519.6	1521.4	1524.4	1549.4	1561.9	1573.8	1576.8	1560.1	1527.3	1507.7	1507.7	1522.0
15°	1508.3	1511.8	1526.7	1572.0	1606.6	1633.4	1644.7	1631.0	1588.7	1555.9	1555.9	1572.0
17.5°	1454.1	1457.0	1486.2	1555.3	1631.6	1693.5	1712.0	1703.7	1656.6	1616.7	1616.7	1632.2
20°	1379.0	1385.6	1417.1	1513.6	1627.4	1735.2	1784.7	1781.7	1730.5	1669.1	1669.1	1687.6
22.5°	1311.1	1318.8	1352.2	1458.8	1599.4	1746.0	1857.9	1865.7	1797.8	1721.5	1721.5	1736.4
25°	1234.9	1242.0	1284.9	1393.9	1551.2	1737.6	1920.5	1955.6	1874.0	1781.7	1781.7	1795.4
27.5°	1156.8	1162.2	1204.5	1320.6	1488.0	1722.1	1969.9	2054.5	1949.1	1823.4	1823.4	1832.9
30°	1088.3	1095.5	1134.2	1247.4	1418.9	1691.1	2010.4	2160.0	2035.5	1870.4	1870.4	1878.2
32.5°	1022.2	1028.2	1070.4	1175.3	1345.7	1643.5	2046.8	2283.9	2163.5	1958.0	1958.0	1958.0
35°	938.8	949.5	997.2	1106.2	1276.6	1580.4	2073.0	2428.0	2338.7	2087.3	2087.3	2087.9
37.5°	862.0	867.9	917.9	1028.2	1203.9	1508.9	2075.4	2577.5	2560.3	2251.7	2251.7	2252.9
40°	774.4	782.1	835.7	944.8	1120.5	1433.8	2052.7	2716.9	2792.6	2420.9	2420.9	2414.3
42.5°	685.6	697.0	748.2	854.8	1030.5	1342.1	1992.6	2849.8	3087.4	2616.8	2616.8	2600.8
45°	599.9	607.0	658.2	758.9	927.5	1232.5	1896.1	2977.2	3437.7	2914.7	2914.7	2891.5
47.5°	503.4	506.3	559.3	655.8	820.9	1110.4	1757.9	3091.0	3822.5	3309.0	3309.0	3269.1
50°	417.6	421.7	463.4	546.2	690.4	965.6	1585.7	3157.7	4312.8	3846.9	3846.9	3777.8
52.5°	337.8	341.9	375.3	441.4	570.7	800.6	1372.5	3142.2	4810.2	4514.7	4514.7	4414.0
55°	272.8	275.8	298.4	350.3	449.1	636.8	1120.5	3003.4	5362.4	5386.8	5386.8	5169.9
57.5°	230.5	231.7	247.2	278.8	350.9	490.8	864.9	2675.8	5941.4	6499.5	6499.5	6143.3
60°	206.1	206.7	213.9	233.5	277.0	374.7	633.8	2154.0	6541.2	7891.6	7891.6	7403.2
62.5°	190.6	190.6	196.6	207.9	229.9	288.3	465.8	1547.0	6971.9	9406.5	9406.5	8921.0
65°	175.7	175.7	179.9	189.4	201.3	235.3	349.7	997.8	7183.4	10672.9	10672.9	10565.1
67.5°	156.7	157.3	160.2	170.4	181.1	196.6	265.1	674.9	6744.3	11023.1	11023.1	11568.8
70°	138.8	139.4	143.6	150.1	159.0	169.8	207.3	465.2	4909.0	9180.7	9180.7	10344.1
72.5°	119.1	121.5	124.5	131.6	137.0	144.8	169.2	301.4	2856.3	5905.6	5905.6	6837.9
75°	97.7	100.7	104.2	111.4	115.0	117.9	139.4	215.0	1374.2	2992.7	2992.7	3407.9
77.5°	75.7	78.6	82.8	89.4	91.7	95.3	106.6	155.5	658.2	1326.6	1326.6	1430.2
80°	50.6	51.8	55.4	63.1	67.3	69.7	78.6	106.0	285.9	532.5	532.5	527.8
82.5°	31.0	31.6	32.8	37.5	39.3	41.7	51.2	64.9	136.4	605.2	605.2	694.0
85°	11.3	10.7	10.1	13.1	15.5	17.9	23.8	32.8	59.6	415.8	415.8	465.2
87.5°	0.0	0.0	0.0	0.6	1.2	1.2	2.4	4.8	14.3	155.5	155.5	106.6
90°	0.0	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°	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1	1392.1
2.5°	1396.9	1390.3	1398.7	1404.6	1417.7	1422.5	1423.7	1419.5	1419.5	1412.4	1413.6
5°	1413.0	1408.8	1422.5	1432.6	1451.7	1458.8	1463.6	1460.6	1462.4	1457.6	1458.8
7.5°	1437.4	1433.8	1457.6	1477.3	1497.0	1505.3	1509.5	1507.1	1507.7	1501.7	1503.5
10°	1471.3	1472.5	1501.1	1526.7	1552.9	1561.3	1563.1	1555.9	1550.0	1539.2	1539.8
12.5°	1517.8	1523.8	1564.3	1592.9	1619.7	1631.6	1618.5	1592.3	1567.8	1549.4	1547.0
15°	1568.4	1579.2	1637.5	1673.9	1703.1	1697.1	1658.4	1599.4	1551.2	1523.8	1518.4
17.5°	1629.2	1645.3	1718.5	1762.0	1787.1	1748.9	1667.9	1579.8	1512.4	1475.5	1468.4
20°	1686.4	1712.0	1804.3	1860.9	1863.9	1778.1	1663.7	1539.8	1455.3	1410.0	1400.5
22.5°	1738.8	1771.6	1894.3	1966.4	1927.6	1791.2	1638.1	1483.3	1386.2	1333.1	1324.8
25°	1796.0	1842.5	1999.1	2066.4	1991.4	1785.9	1584.5	1413.0	1302.8	1248.6	1242.6
27.5°	1835.3	1893.7	2104.6	2168.9	2043.8	1755.5	1515.4	1336.1	1226.5	1175.3	1166.9
30°	1880.6	1955.0	2220.7	2280.3	2076.0	1710.8	1441.6	1264.6	1155.6	1100.2	1094.3
32.5°	1962.8	2056.3	2364.9	2398.2	2086.1	1655.4	1370.7	1195.5	1081.8	1026.4	1018.0
35°	2095.0	2204.6	2567.4	2529.9	2078.3	1594.6	1303.4	1114.5	1006.1	954.3	945.9
37.5°	2261.8	2398.2	2793.2	2648.4	2056.9	1527.9	1223.5	1046.6	938.2	885.8	881.0
40°	2417.3	2585.3	3046.3	2750.9	2013.4	1445.7	1146.7	975.7	864.9	809.5	798.8
42.5°	2612.1	2835.5	3339.4	2839.6	1941.9	1347.4	1060.3	888.2	773.2	723.2	710.1
45°	2908.1	3185.7	3680.1	2924.8	1835.3	1226.5	951.9	781.5	672.5	621.3	611.2
47.5°	3277.5	3623.5	4049.5	2975.4	1673.3	1099.0	829.2	669.0	559.9	502.2	497.4
50°	3796.3	4260.3	4445.6	2966.5	1492.2	947.7	691.0	534.9	443.8	402.1	395.5
52.5°	4428.3	5059.7	4873.9	2859.3	1299.8	775.6	538.5	420.0	352.0	322.3	316.9
55°	5221.2	6017.0	5324.8	2629.4	1056.7	593.9	422.9	331.2	284.7	266.9	264.5
57.5°	6202.9	7256.6	5759.1	2242.2	794.6	453.3	325.8	273.4	251.4	240.7	240.1
60°	7498.5	8572.5	6136.1	1742.4	568.9	346.7	269.2	244.2	227.0	219.8	219.2
62.5°	9038.9	9767.4	6370.8	1186.6	427.7	276.4	237.1	221.6	211.5	207.3	206.7
65°	10622.2	10522.8	6258.9	777.4	324.6	234.7	212.7	204.3	195.4	191.2	191.2
67.5°	11557.5	10363.1	5399.3	539.7	257.3	206.1	191.8	184.1	169.2	165.6	165.6
70°	10236.8	8397.4	3539.0	394.9	208.5	180.5	166.8	156.1	150.1	146.5	145.9
72.5°	6770.5	5464.2	1881.8	274.0	173.9	153.7	141.2	137.0	129.9	126.3	125.7
75°	3369.8	2870.0	964.4	197.8	144.8	123.3	117.9	116.2	110.2	105.4	104.2
77.5°	1404.6	1277.7	449.7	143.6	110.2	99.5	94.7	94.7	88.2	82.8	80.4
80°	529.6	471.8	212.7	98.3	81.6	73.9	70.9	68.5	63.1	56.6	53.0
82.5°	708.3	462.8	104.2	61.4	53.6	47.7	43.5	41.7	38.7	35.7	33.4
85°	458.7	328.8	47.1	31.6	26.8	20.3	17.9	16.7	14.9	13.1	11.9
87.5°	93.5	110.2	14.3	6.0	3.6	1.8	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)