

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: P633042

Luminaire Tested: GWS-SA2D-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633042  
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-SA2D-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

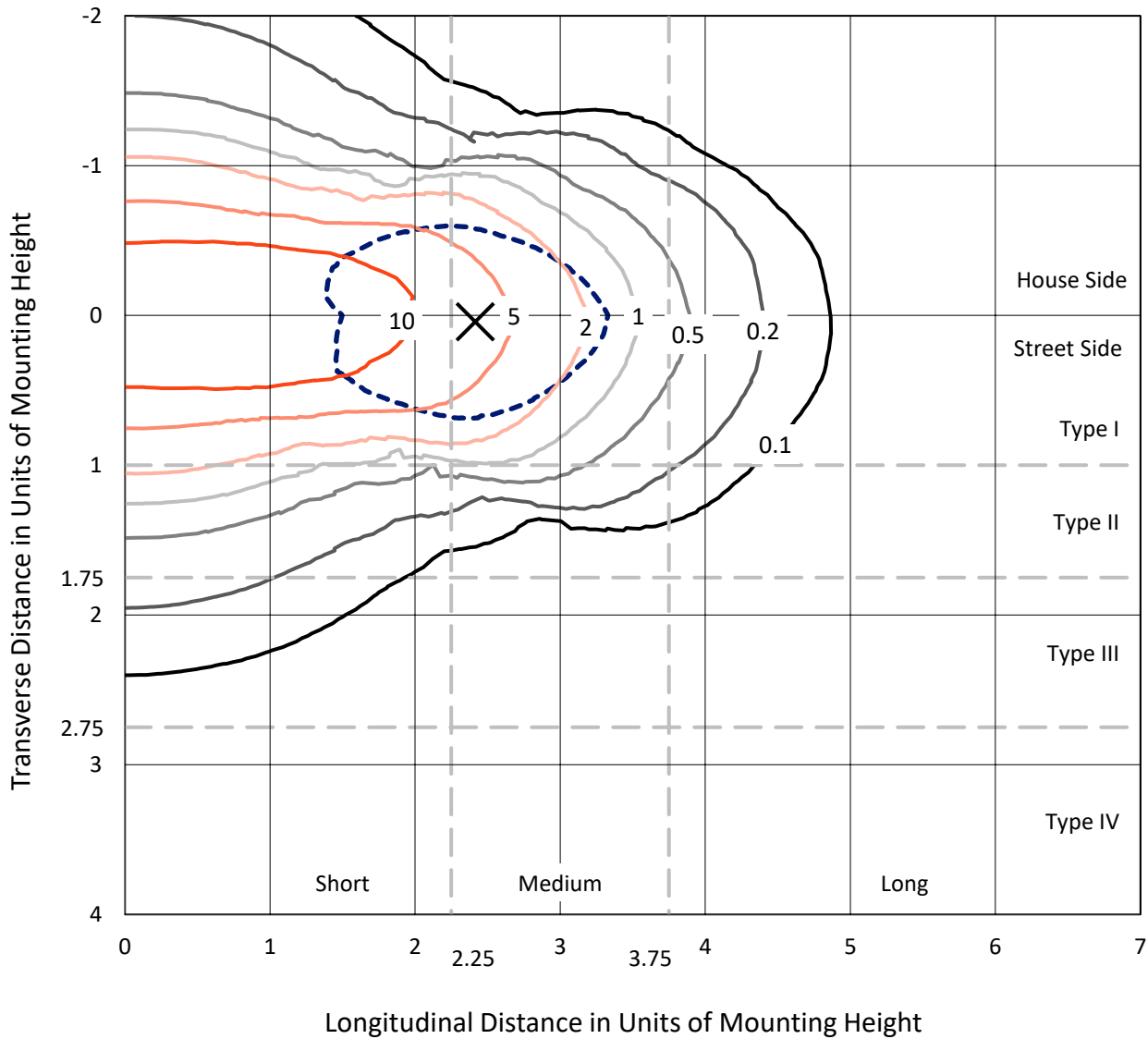
Lumens per Lamp: N/A  
Luminaire Lumens: 9258.4 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

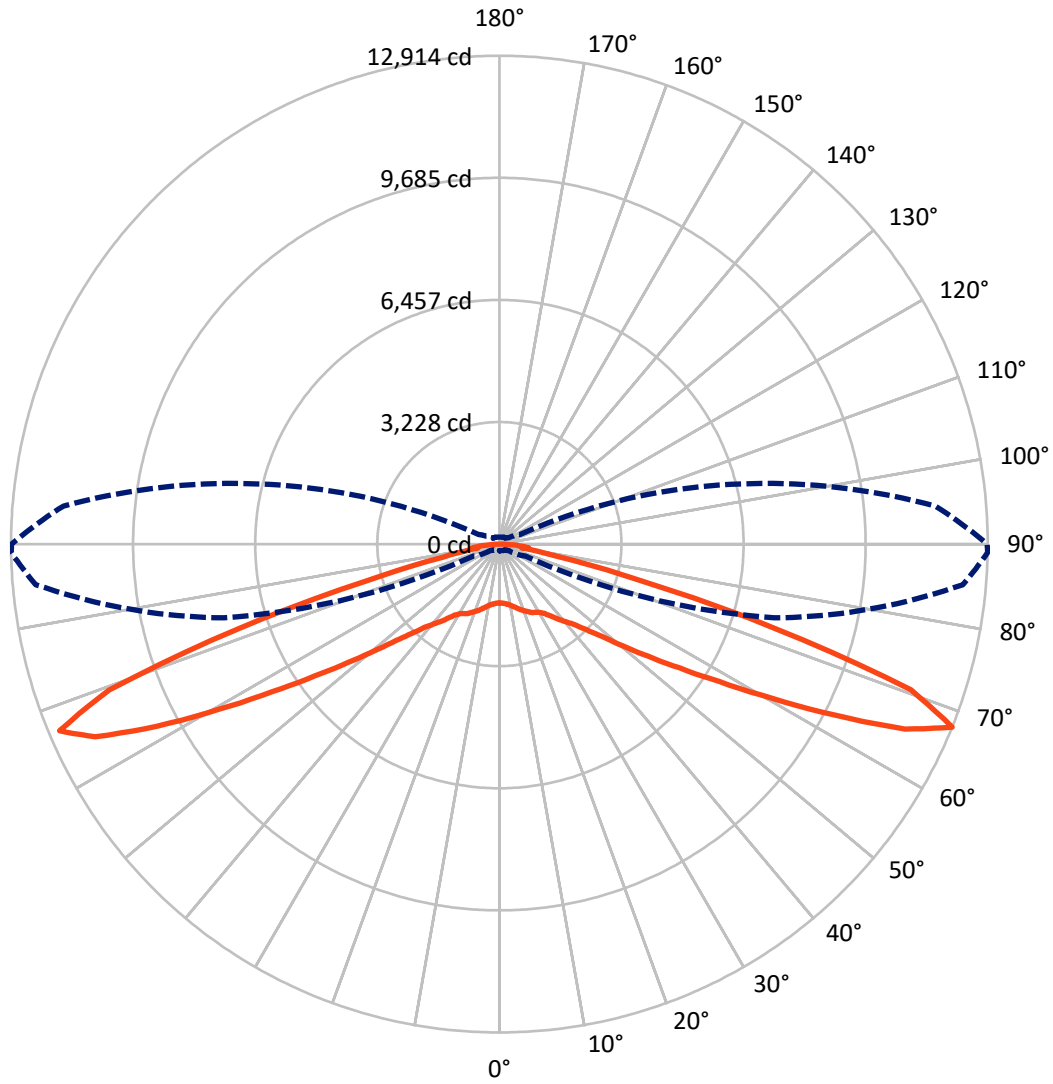
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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
<b>House Side</b>	Lumens	4588.6	0.0	4588.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	4669.8	0.0	4669.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	9258.4	0.0	9258.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	1.7
10°-20°	507.5	5.5
20°-30°	858.0	9.3
30°-40°	1177.5	12.7
40°-50°	1501.5	16.2
50°-60°	1883.9	20.3
60°-70°	2272.2	24.5
70°-80°	822.0	8.9
80°-90°	79.9	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°	9258.4	100.0
0°-180°	9258.4	100.0

**Coefficient of Utilization**



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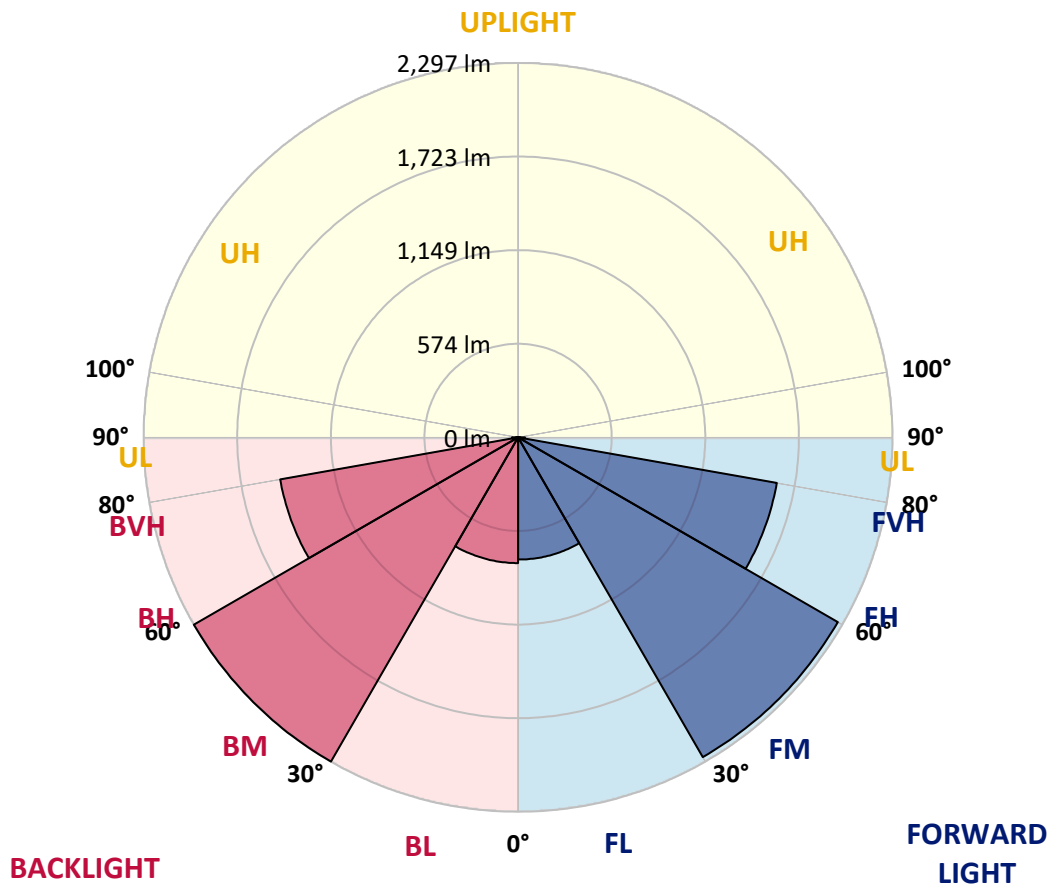
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.9	8.1			
FM (30°-60°)	2265.7	24.5			
FH (60°-80°)	1612.0	17.4			G1/1800
FVH (80°-90°)	42.2	0.5			G1/100
BL (0°-30°)	771.5	8.3	B2/1000		
BM (30°-60°)	2297.2	24.8	B2/2500		
BH (60°-80°)	1482.1	16.0	B3/2500		G3/2500
BVH (80°-90°)	37.8	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°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1558.6	1557.3	1553.9	1563.9	1561.9	1562.6	1566.6	1563.9	1559.3	1551.3	1562.6
5°	1602.5	1601.8	1594.5	1600.5	1593.8	1589.2	1588.5	1581.9	1576.6	1567.9	1579.9
7.5°	1645.0	1644.4	1638.4	1649.0	1643.7	1638.4	1632.4	1619.1	1606.5	1593.8	1607.1
10°	1677.6	1677.0	1675.6	1690.9	1692.3	1694.2	1691.6	1669.0	1647.0	1631.7	1645.0
12.5°	1696.2	1698.2	1701.6	1729.5	1743.5	1756.8	1760.1	1741.5	1704.9	1682.9	1698.9
15°	1683.6	1687.6	1704.2	1754.8	1793.3	1823.2	1835.9	1820.6	1773.4	1736.8	1754.8
17.5°	1623.1	1626.4	1659.0	1736.1	1821.3	1890.4	1911.0	1901.7	1849.2	1804.6	1821.9
20°	1539.3	1546.6	1581.9	1689.6	1816.6	1936.9	1992.1	1988.8	1931.6	1863.1	1883.8
22.5°	1463.5	1472.2	1509.4	1628.4	1785.3	1948.9	2073.9	2082.6	2006.8	1921.7	1938.3
25°	1378.4	1386.4	1434.3	1555.9	1731.5	1939.6	2143.7	2183.0	2091.9	1988.8	2004.1
27.5°	1291.3	1297.3	1344.5	1474.2	1661.0	1922.3	2198.9	2293.4	2175.7	2035.4	2046.0
30°	1214.8	1222.8	1266.0	1392.4	1583.9	1887.7	2244.1	2411.0	2272.1	2087.9	2096.5
32.5°	1141.0	1147.7	1194.9	1311.9	1502.1	1834.5	2284.7	2549.4	2415.0	2185.6	2185.6
35°	1047.9	1059.9	1113.1	1234.8	1425.0	1764.1	2314.0	2710.3	2610.5	2329.9	2330.6
37.5°	962.2	968.8	1024.7	1147.7	1343.8	1684.3	2316.6	2877.2	2857.9	2513.4	2514.8
40°	864.4	873.1	932.9	1054.6	1250.7	1600.5	2291.4	3032.8	3117.2	2702.3	2695.0
42.5°	765.3	778.0	835.2	954.2	1150.3	1498.1	2224.2	3181.0	3446.3	2921.0	2903.1
45°	669.6	677.6	734.8	847.1	1035.3	1375.7	2116.5	3323.3	3837.3	3253.5	3227.6
47.5°	561.9	565.2	624.4	732.1	916.3	1239.4	1962.2	3450.3	4266.9	3693.7	3649.2
50°	466.1	470.8	517.3	609.7	770.7	1077.9	1770.1	3524.8	4814.1	4294.1	4217.0
52.5°	377.0	381.7	418.9	492.7	637.0	893.7	1532.0	3507.5	5369.3	5039.5	4927.2
55°	304.5	307.9	333.1	391.0	501.4	710.8	1250.7	3352.6	5985.7	6013.0	5771.0
57.5°	257.3	258.7	275.9	311.2	391.6	547.9	965.5	2986.9	6632.0	7255.1	6857.5
60°	230.1	230.7	238.7	260.7	309.2	418.2	707.5	2404.4	7301.6	8809.0	8263.8
62.5°	212.8	212.8	219.4	232.1	256.7	321.8	520.0	1726.8	7782.4	10500.0	9958.0
65°	196.2	196.2	200.8	211.4	224.7	262.6	390.3	1113.8	8018.4	11913.6	11793.2
67.5°	174.9	175.5	178.9	190.2	202.1	219.4	295.9	753.4	7528.4	12304.6	12913.7
70°	154.9	155.6	160.2	167.6	177.5	189.5	231.4	519.3	5479.7	10247.9	11546.6
72.5°	133.0	135.6	139.0	147.0	152.9	161.6	188.8	336.5	3188.4	6592.1	7632.8
75°	109.0	112.4	116.4	124.3	128.3	131.7	155.6	240.0	1534.0	3340.6	3804.1
77.5°	84.4	87.8	92.4	99.7	102.4	106.4	119.0	173.5	734.8	1480.8	1596.5
80°	56.5	57.8	61.8	70.5	75.1	77.8	87.8	118.4	319.2	594.4	589.1
82.5°	34.6	35.2	36.6	41.9	43.9	46.5	57.2	72.5	152.3	675.6	774.6
85°	12.6	12.0	11.3	14.6	17.3	19.9	26.6	36.6	66.5	464.1	519.3
87.5°	0.0	0.0	0.0	0.7	1.3	1.3	2.7	5.3	16.0	173.5	119.0
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°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1559.3	1552.0	1561.3	1567.9	1582.5	1587.9	1589.2	1584.5	1584.5	1576.6	1577.9
5°	1577.2	1572.6	1587.9	1599.2	1620.4	1628.4	1633.7	1630.4	1632.4	1627.1	1628.4
7.5°	1604.5	1600.5	1627.1	1649.0	1671.0	1680.3	1684.9	1682.3	1682.9	1676.3	1678.3
10°	1642.4	1643.7	1675.6	1704.2	1733.5	1742.8	1744.8	1736.8	1730.2	1718.2	1718.9
12.5°	1694.2	1700.9	1746.1	1778.0	1808.0	1821.3	1806.6	1777.4	1750.1	1729.5	1726.8
15°	1750.8	1762.7	1827.9	1868.5	1901.0	1894.4	1851.2	1785.3	1731.5	1700.9	1694.9
17.5°	1818.6	1836.5	1918.3	1966.9	1994.8	1952.2	1861.8	1763.4	1688.3	1647.0	1639.1
20°	1882.4	1911.0	2014.1	2077.2	2080.6	1984.8	1857.2	1718.9	1624.4	1573.9	1563.3
22.5°	1940.9	1977.5	2114.5	2194.9	2151.7	1999.5	1828.6	1655.7	1547.3	1488.1	1478.8
25°	2004.8	2056.6	2231.5	2306.7	2222.9	1993.5	1768.7	1577.2	1454.2	1393.7	1387.0
27.5°	2048.7	2113.8	2349.2	2421.0	2281.4	1959.6	1691.6	1491.4	1369.1	1311.9	1302.6
30°	2099.2	2182.3	2478.9	2545.4	2317.3	1909.7	1609.1	1411.7	1290.0	1228.1	1221.5
32.5°	2191.0	2295.3	2639.8	2677.0	2328.6	1847.8	1530.0	1334.5	1207.5	1145.7	1136.4
35°	2338.6	2460.9	2865.9	2824.0	2320.0	1780.0	1454.9	1244.1	1123.1	1065.2	1055.9
37.5°	2524.7	2677.0	3117.9	2956.3	2296.0	1705.6	1365.8	1168.3	1047.3	988.8	983.4
40°	2698.3	2885.8	3400.5	3070.7	2247.5	1613.8	1280.0	1089.2	965.5	903.6	891.7
42.5°	2915.7	3165.1	3727.6	3169.7	2167.7	1504.1	1183.6	991.4	863.1	807.2	792.6
45°	3246.2	3556.1	4108.0	3264.8	2048.7	1369.1	1062.6	872.4	750.7	693.5	682.2
47.5°	3658.5	4044.8	4520.2	3321.3	1867.8	1226.8	925.6	746.7	625.0	560.5	555.2
50°	4237.6	4755.6	4962.4	3311.4	1665.7	1057.9	771.3	597.1	495.4	448.8	441.5
52.5°	4943.1	5647.9	5440.5	3191.7	1450.9	865.7	601.1	468.8	393.0	359.7	353.7
55°	5828.1	6716.5	5943.8	2935.0	1179.6	662.9	472.1	369.7	317.8	297.9	295.2
57.5°	6923.9	8100.2	6428.6	2502.8	887.0	506.0	363.7	305.2	280.6	268.6	268.0
60°	8370.2	9569.0	6849.5	1944.9	635.0	387.0	300.5	272.6	253.3	245.4	244.7
62.5°	10089.7	10902.9	7111.5	1324.5	477.4	308.5	264.6	247.4	236.1	231.4	230.7
65°	11857.1	11746.0	6986.4	867.7	362.4	262.0	237.4	228.1	218.1	213.4	213.4
67.5°	12901.0	11567.8	6027.0	602.4	287.3	230.1	214.1	205.5	188.8	184.9	184.9
70°	11426.9	9373.6	3950.4	440.9	232.7	201.5	186.2	174.2	167.6	163.6	162.9
72.5°	7557.6	6099.4	2100.5	305.9	194.2	171.6	157.6	152.9	145.0	141.0	140.3
75°	3761.5	3203.6	1076.5	220.8	161.6	137.6	131.7	129.7	123.0	117.7	116.4
77.5°	1567.9	1426.3	502.0	160.2	123.0	111.0	105.7	105.7	98.4	92.4	89.8
80°	591.1	526.6	237.4	109.7	91.1	82.5	79.1	76.5	70.5	63.2	59.2
82.5°	790.6	516.7	116.4	68.5	59.8	53.2	48.5	46.5	43.2	39.9	37.2
85°	512.0	367.0	52.5	35.2	29.9	22.6	19.9	18.6	16.6	14.6	13.3
87.5°	104.4	123.0	16.0	6.6	4.0	2.0	2.0	0.7	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)