

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: P632618

Luminaire Tested: GWS-SA2D-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632618  
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-SA2D-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

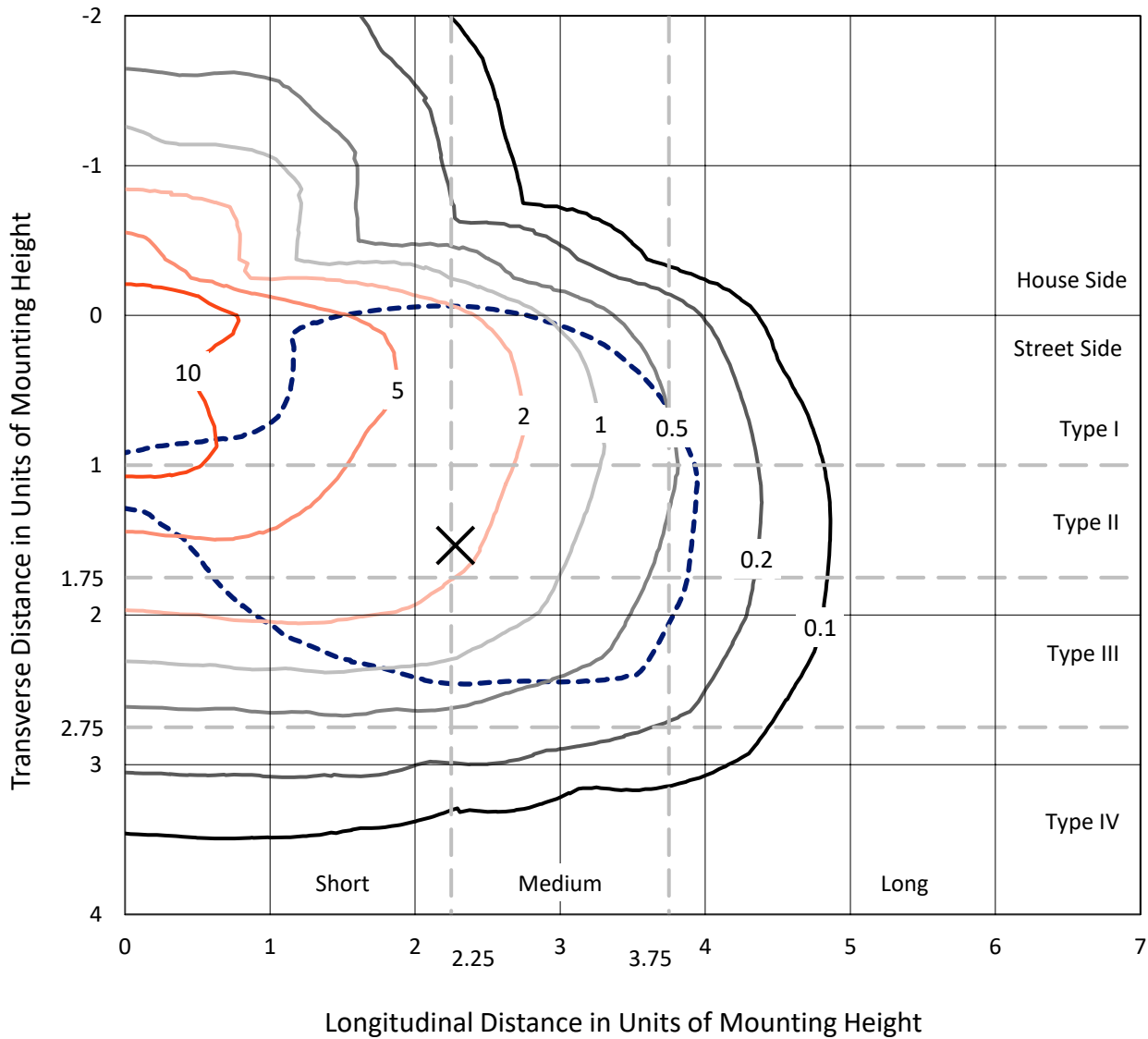
Lumens per Lamp: N/A  
Luminaire Lumens: 8743.3 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

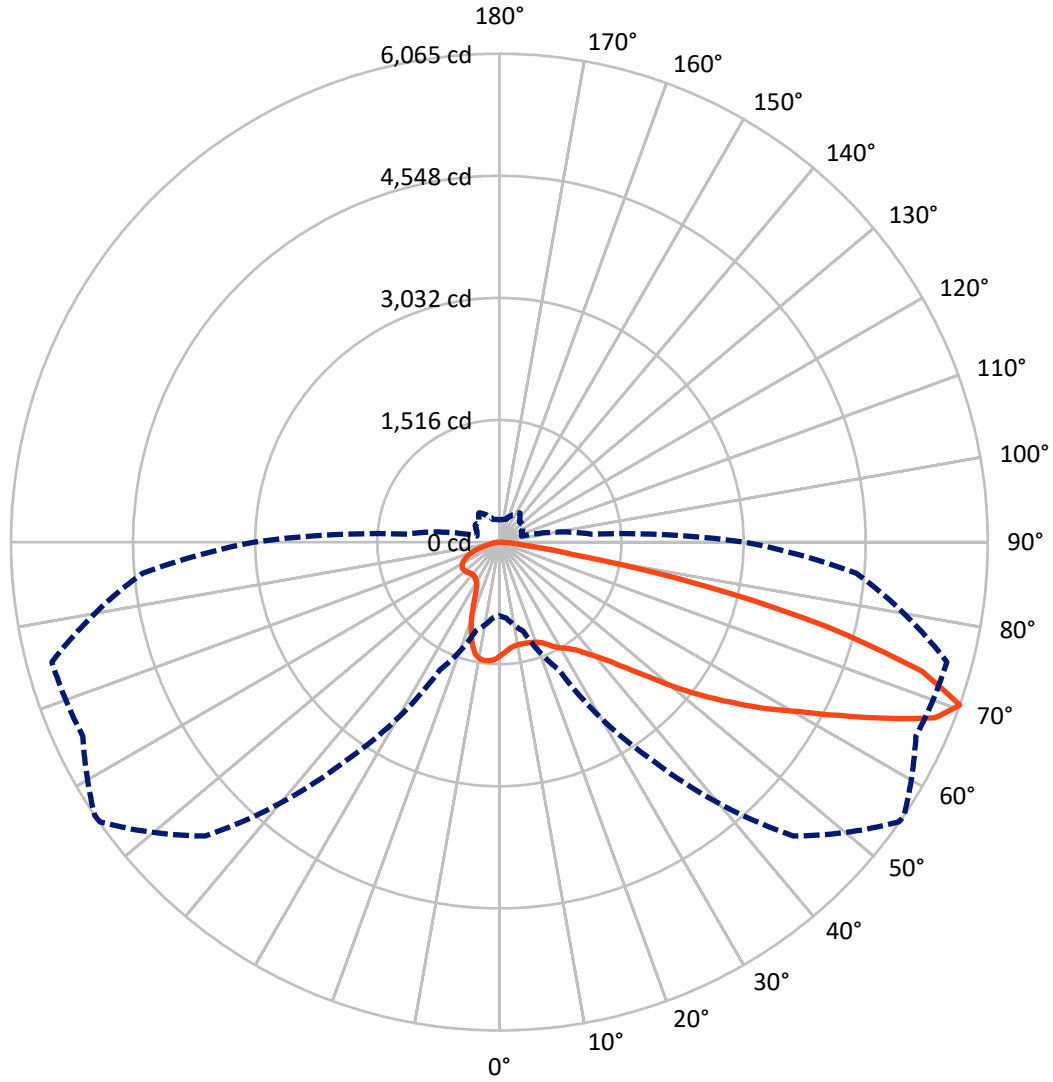
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 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
<b>House Side</b>	Lumens	1680.9	0.0	1680.9
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	7062.4	0.0	7062.4
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	8743.3	0.0	8743.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	1.5
10°-20°	353.9	4.0
20°-30°	585.0	6.7
30°-40°	874.7	10.0
40°-50°	1301.7	14.9
50°-60°	1850.6	21.2
60°-70°	2292.1	26.2
70°-80°	1265.6	14.5
80°-90°	89.1	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°	8743.3	100.0
0°-180°	8743.3	100.0

**Coefficient of Utilization**



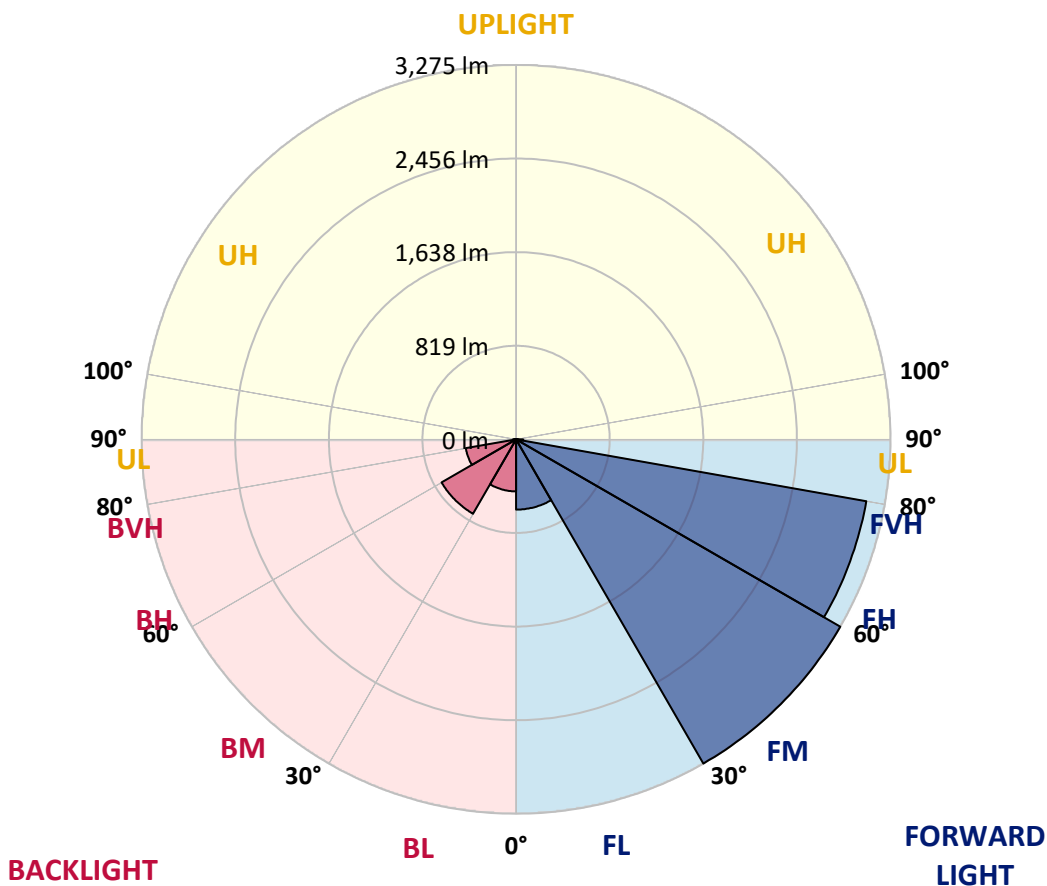
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.5	7.0			
FM (30°-60°)	3275.1	37.5			
FH (60°-80°)	3110.9	35.6			G2/5000
FVH (80°-90°)	61.9	0.7			G1/100
BL (0°-30°)	455.0	5.2	B1/500		
BM (30°-60°)	751.9	8.6	B1/1000		
BH (60°-80°)	446.8	5.1	B1/500		G1/500
BVH (80°-90°)	27.2	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°	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3
2.5°	1320.7	1313.3	1321.9	1326.2	1337.3	1353.3	1367.5	1368.1	1375.5	1393.4	1410.7
5°	1260.9	1257.2	1259.6	1272.6	1284.3	1304.6	1326.2	1328.1	1349.0	1384.2	1418.7
7.5°	1214.6	1209.7	1218.9	1235.6	1250.4	1273.2	1301.6	1304.0	1333.6	1386.6	1439.7
10°	1148.0	1144.3	1161.6	1183.8	1215.9	1253.5	1291.1	1294.2	1333.0	1402.7	1476.7
12.5°	1119.1	1119.1	1126.5	1147.4	1182.6	1232.5	1289.2	1294.2	1342.9	1427.3	1524.1
15°	1164.1	1167.1	1161.0	1159.7	1173.9	1221.4	1291.7	1299.1	1361.4	1452.6	1571.0
17.5°	1254.7	1257.8	1241.7	1216.5	1202.3	1231.9	1300.9	1309.0	1381.1	1480.4	1621.5
20°	1381.7	1385.4	1350.3	1311.4	1262.7	1262.1	1318.8	1326.2	1406.4	1510.6	1675.2
22.5°	1530.3	1532.8	1488.4	1426.7	1352.1	1318.2	1349.6	1357.0	1439.0	1552.5	1733.1
25°	1702.3	1709.7	1656.1	1566.7	1465.6	1395.3	1400.8	1409.5	1497.6	1608.6	1801.6
27.5°	1886.1	1895.3	1833.6	1735.0	1595.7	1480.4	1466.8	1474.2	1559.9	1643.1	1838.0
30°	2074.1	2080.9	2019.2	1906.4	1735.6	1576.5	1522.3	1526.6	1587.0	1659.8	1875.0
32.5°	2283.1	2277.6	2218.4	2088.3	1897.2	1691.8	1574.1	1572.8	1617.2	1693.1	1928.0
35°	2479.2	2487.2	2424.3	2280.7	2074.7	1834.3	1651.8	1646.8	1681.4	1747.3	2002.6
37.5°	2716.6	2714.1	2638.9	2483.5	2252.9	1970.5	1760.9	1752.3	1764.6	1831.8	2106.8
40°	2886.1	2903.4	2854.7	2709.8	2461.3	2138.2	1888.5	1869.4	1872.5	1936.0	2246.1
42.5°	3024.8	3040.9	3045.8	2953.3	2699.9	2345.4	2047.6	2028.5	2030.3	2120.3	2417.5
45°	3131.5	3153.1	3222.8	3195.6	2968.7	2584.6	2262.8	2243.0	2244.3	2344.2	2624.7
47.5°	3175.3	3198.7	3339.9	3404.6	3254.2	2870.7	2530.4	2501.4	2505.7	2616.1	2861.4
50°	3161.1	3192.5	3383.7	3565.6	3493.4	3161.7	2850.4	2830.0	2813.4	2973.7	3118.6
52.5°	3039.0	3073.5	3379.4	3667.9	3688.9	3436.7	3180.8	3169.1	3165.4	3353.5	3405.9
55°	2679.6	2737.5	3230.8	3695.0	3841.8	3695.7	3539.0	3519.3	3538.4	3760.4	3696.3
57.5°	2480.4	2523.6	2939.8	3664.8	3966.9	3942.3	3896.7	3898.5	3920.1	4202.5	4048.3
60°	2367.0	2417.5	2778.2	3582.2	4087.2	4241.9	4270.9	4270.9	4309.7	4679.1	4405.9
62.5°	2216.5	2267.7	2627.2	3423.1	4198.1	4594.6	4741.3	4739.5	4754.9	5190.2	4755.5
65°	1911.3	1958.8	2323.8	3172.2	4252.4	4983.0	5275.9	5270.3	5239.5	5645.2	4986.7
67.5°	1387.9	1432.9	1780.0	2695.0	4057.0	5296.2	5826.5	5828.9	5644.6	5931.9	4999.1
70°	915.0	945.8	1144.3	1750.4	3299.2	5161.2	6057.1	6064.5	5706.9	5753.1	4449.1
72.5°	570.9	592.5	714.6	1043.8	1949.6	4085.3	5465.2	5485.5	5134.1	5055.8	3655.6
75°	379.2	394.0	475.4	608.5	902.0	2211.0	4154.4	4219.7	4114.9	3963.2	2547.0
77.5°	228.1	240.5	302.7	386.6	399.5	863.8	2424.9	2593.9	2608.7	2069.2	1066.6
80°	104.2	118.4	167.1	220.7	212.7	300.9	855.2	894.6	1055.5	657.3	336.6
82.5°	61.7	67.8	111.0	109.7	90.6	146.1	307.7	315.7	268.2	240.5	143.7
85°	24.7	29.0	46.9	41.3	33.3	47.5	115.9	121.5	116.5	104.8	53.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.5	11.1	16.0	29.0	16.0
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°	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3	1411.3
2.5°	1421.8	1418.1	1436.6	1450.8	1456.9	1463.1	1457.5	1455.7	1455.7	1443.4	1437.2
5°	1437.2	1439.0	1464.3	1476.0	1476.0	1471.1	1456.3	1445.8	1442.1	1426.1	1421.8
7.5°	1466.2	1474.2	1497.6	1497.0	1479.7	1452.6	1415.6	1387.3	1361.4	1350.3	1343.5
10°	1513.7	1524.1	1540.2	1514.3	1466.2	1394.7	1316.4	1254.7	1217.7	1188.1	1188.1
12.5°	1567.9	1577.8	1574.7	1514.9	1415.6	1281.8	1169.0	1098.1	1046.3	1019.2	1019.2
15°	1622.2	1630.2	1596.9	1486.5	1310.2	1132.0	1008.7	923.6	878.6	853.3	853.3
17.5°	1677.0	1676.4	1606.1	1421.2	1172.7	966.1	845.3	779.3	763.9	759.6	759.0
20°	1730.1	1715.9	1594.4	1312.0	1013.0	799.1	722.6	726.9	749.7	759.6	760.8
22.5°	1789.9	1754.7	1559.9	1172.7	831.7	683.1	688.1	723.8	757.1	771.9	773.8
25°	1850.9	1788.0	1501.9	1009.3	680.1	640.6	678.8	718.9	756.5	775.6	777.5
27.5°	1875.6	1788.0	1403.3	820.0	599.3	622.7	664.7	703.5	743.0	765.1	769.5
30°	1895.9	1772.6	1265.2	649.2	566.0	605.5	641.8	677.6	716.4	743.6	748.5
32.5°	1924.3	1759.0	1098.1	545.7	550.6	588.8	614.1	644.3	679.4	697.3	695.5
35°	1957.6	1738.1	896.5	496.3	537.6	574.6	592.5	610.4	594.4	593.7	595.6
37.5°	2005.0	1719.6	720.8	474.1	529.0	564.8	579.6	541.3	519.1	509.9	506.2
40°	2073.5	1712.2	568.5	461.2	527.8	564.2	553.7	494.5	464.3	432.2	431.6
42.5°	2159.8	1706.6	469.8	455.0	532.1	578.3	517.9	463.7	401.4	387.2	386.0
45°	2270.8	1698.0	420.5	453.8	542.6	589.4	514.2	421.1	378.6	372.4	372.4
47.5°	2404.6	1684.4	398.3	453.8	554.3	584.5	503.1	411.9	368.1	374.9	379.2
50°	2558.1	1667.2	386.6	452.6	566.0	584.5	479.7	410.0	365.6	400.8	414.9
52.5°	2722.1	1647.4	378.6	447.6	574.0	585.1	480.9	416.2	368.1	406.9	418.6
55°	2903.4	1644.4	367.5	437.1	576.5	569.1	484.0	429.7	371.8	368.7	369.3
57.5°	3132.1	1681.4	359.5	421.7	566.6	536.4	490.2	439.6	367.5	368.1	372.4
60°	3371.3	1751.0	366.2	406.9	546.3	505.6	494.5	434.7	346.5	336.6	337.9
62.5°	3574.8	1804.1	371.8	400.1	516.7	478.4	490.2	423.6	334.8	332.3	337.9
65°	3659.9	1760.3	358.2	386.0	473.5	445.2	480.9	409.4	324.9	315.7	316.3
67.5°	3565.6	1555.0	331.7	354.5	424.8	402.6	466.1	390.9	311.4	300.3	297.8
70°	3045.8	1142.5	286.1	304.6	365.6	352.7	443.3	366.9	289.8	281.8	276.2
72.5°	2454.5	808.9	237.4	242.3	286.7	297.2	403.8	336.6	265.1	242.3	234.3
75°	1708.5	508.0	197.9	193.0	207.2	226.9	315.1	279.3	228.7	204.7	197.3
77.5°	734.9	260.8	154.8	152.3	138.1	157.2	241.7	233.1	191.7	164.0	159.7
80°	246.0	151.1	111.6	107.3	91.9	110.4	170.2	186.2	150.4	121.5	114.1
82.5°	123.3	87.6	70.9	64.1	61.7	69.7	100.5	115.9	104.2	83.9	70.9
85°	60.4	49.9	38.8	38.2	32.1	30.2	41.9	49.3	46.9	34.5	32.7
87.5°	22.2	19.7	12.3	9.9	6.2	4.3	2.5	2.5	1.8	1.8	1.8
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)