

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: P631298

Luminaire Tested: GWS-SA1F-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631298
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-SA1F-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8447.3 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

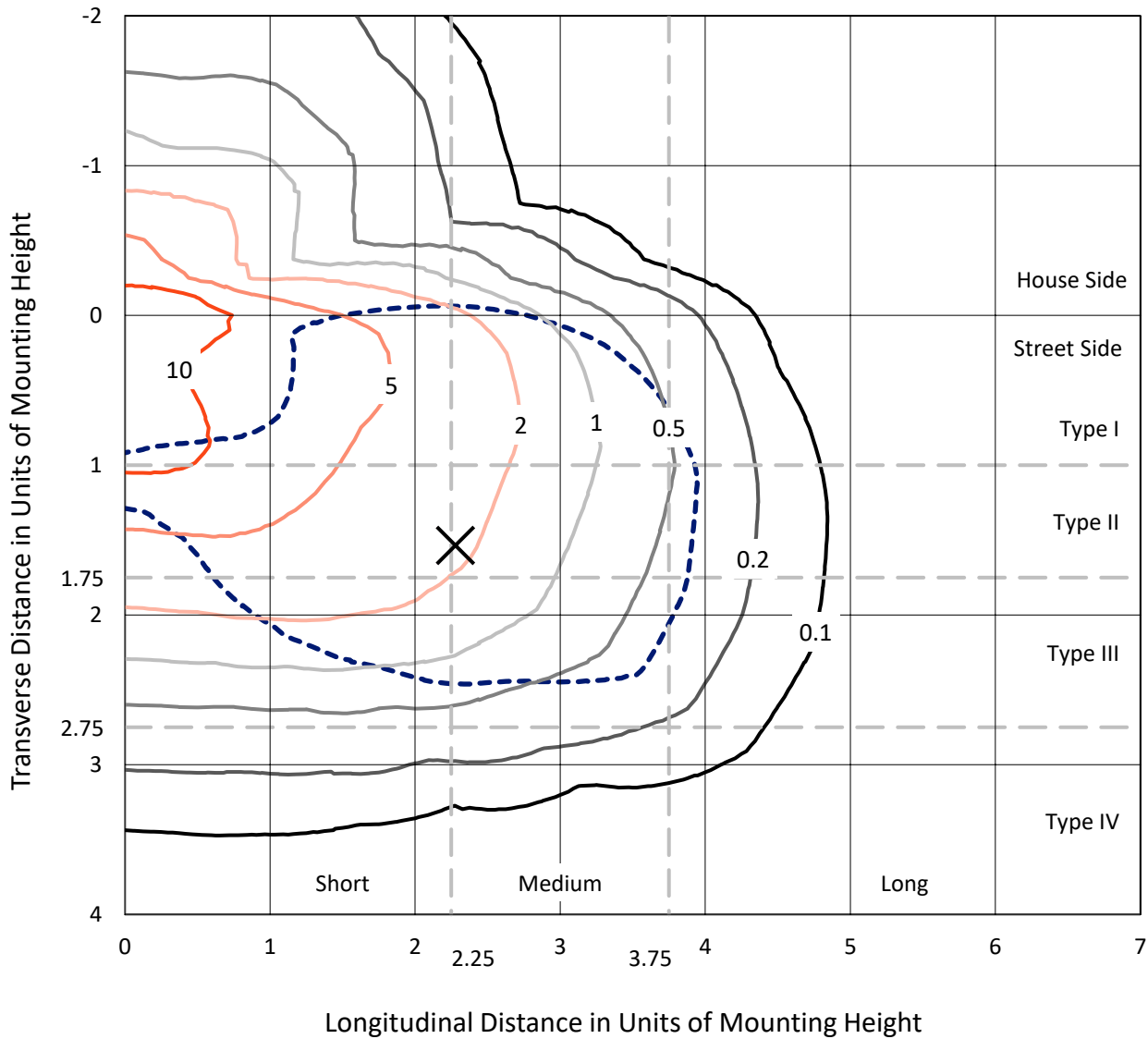
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

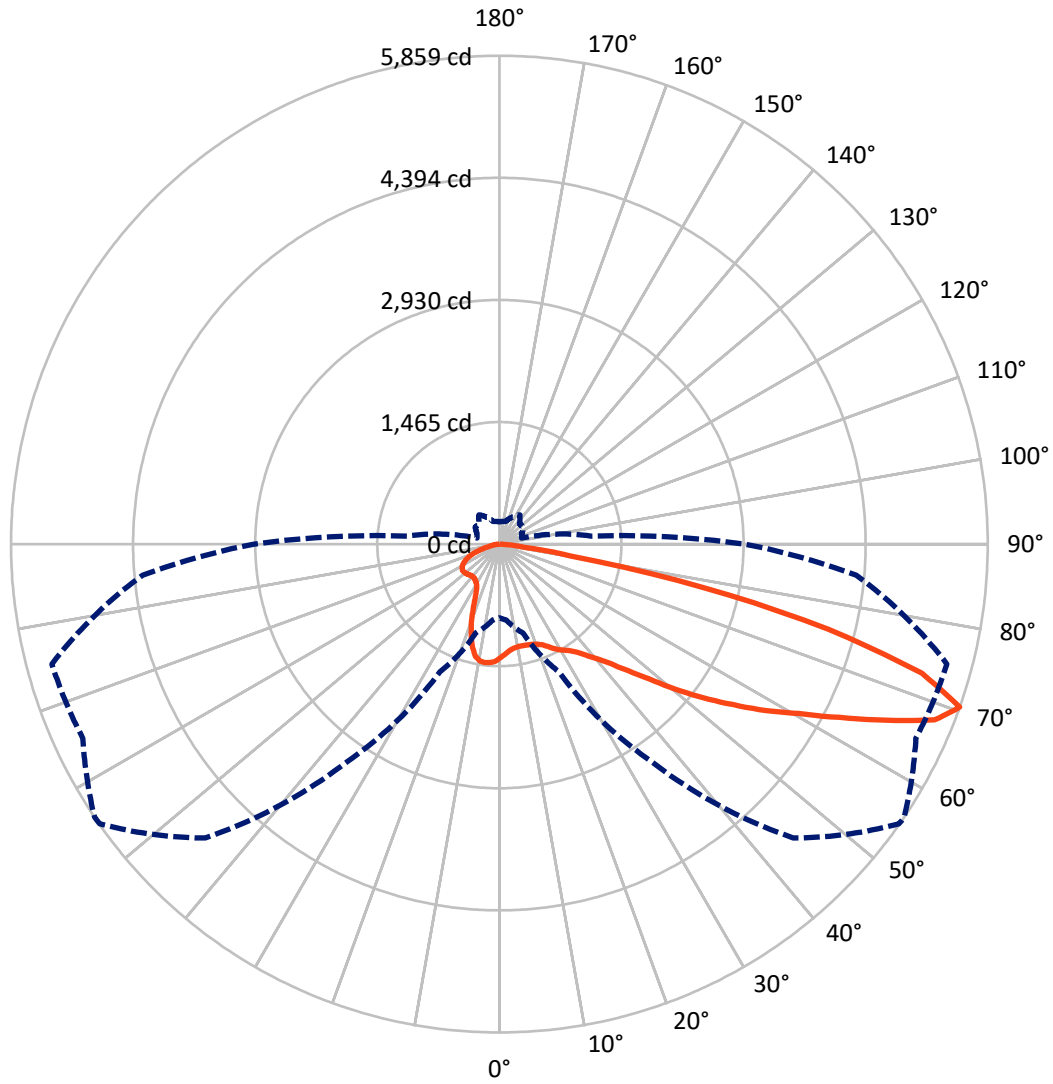
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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
House Side	Lumens	1624.0	0.0	1624.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	6823.3	0.0	6823.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	8447.3	0.0	8447.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.5
10°-20°	341.9	4.0
20°-30°	565.2	6.7
30°-40°	845.1	10.0
40°-50°	1257.6	14.9
50°-60°	1788.0	21.2
60°-70°	2214.4	26.2
70°-80°	1222.7	14.5
80°-90°	86.1	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°	8447.3	100.0
0°-180°	8447.3	100.0

Coefficient of Utilization



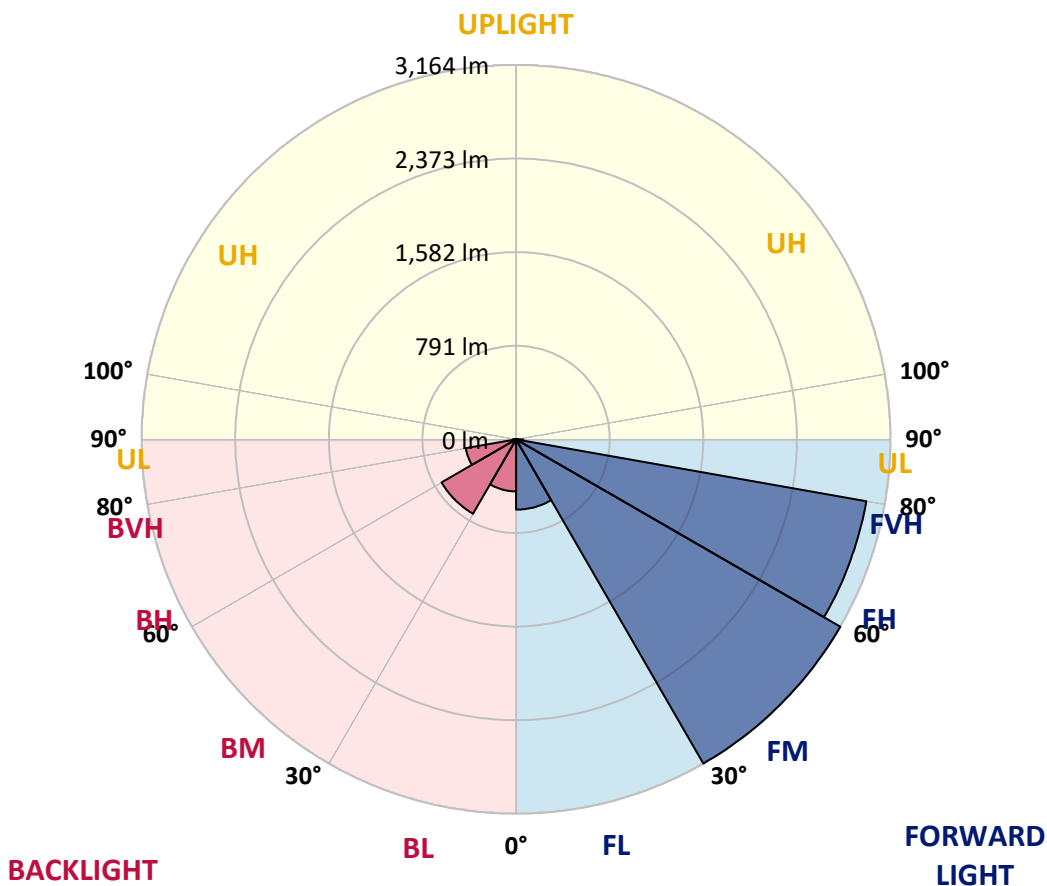
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.7	7.0			
FM (30°-60°)	3164.2	37.5			
FH (60°-80°)	3005.5	35.6			G2/5000
FVH (80°-90°)	59.8	0.7			G1/100
BL (0°-30°)	439.6	5.2	B1/500		
BM (30°-60°)	726.4	8.6	B1/1000		
BH (60°-80°)	431.6	5.1	B1/500		G1/500
BVH (80°-90°)	26.3	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°	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5
2.5°	1276.0	1268.8	1277.1	1281.3	1292.0	1307.5	1321.2	1321.8	1329.0	1346.2	1362.9
5°	1218.2	1214.6	1217.0	1229.5	1240.8	1260.5	1281.3	1283.1	1303.4	1337.3	1370.7
7.5°	1173.5	1168.7	1177.7	1193.8	1208.1	1230.1	1257.5	1259.9	1288.5	1339.7	1390.9
10°	1109.2	1105.6	1122.3	1143.7	1174.7	1211.0	1247.4	1250.3	1287.9	1355.2	1426.7
12.5°	1081.2	1081.2	1088.3	1108.6	1142.5	1190.8	1245.6	1250.3	1297.4	1379.0	1472.5
15°	1124.7	1127.6	1121.7	1120.5	1134.2	1180.1	1248.0	1255.1	1315.3	1403.4	1517.8
17.5°	1212.2	1215.2	1199.7	1175.3	1161.6	1190.2	1256.9	1264.6	1334.3	1430.2	1566.7
20°	1334.9	1338.5	1304.6	1267.0	1220.0	1219.4	1274.2	1281.3	1358.8	1459.4	1618.5
22.5°	1478.5	1480.9	1438.0	1378.4	1306.3	1273.6	1304.0	1311.1	1390.3	1499.9	1674.5
25°	1644.7	1651.8	1600.0	1513.6	1415.9	1348.0	1353.4	1361.7	1446.9	1554.1	1740.6
27.5°	1822.2	1831.1	1771.6	1676.3	1541.6	1430.2	1417.1	1424.3	1507.1	1587.5	1775.7
30°	2003.9	2010.4	1950.9	1841.9	1676.9	1523.2	1470.7	1474.9	1533.3	1603.6	1811.5
32.5°	2205.8	2200.5	2143.3	2017.6	1832.9	1634.6	1520.8	1519.6	1562.5	1635.8	1862.7
35°	2395.3	2403.0	2342.2	2203.4	2004.5	1772.2	1595.8	1591.1	1624.4	1688.2	1934.8
37.5°	2624.6	2622.2	2549.5	2399.4	2176.6	1903.8	1701.3	1692.9	1704.9	1769.8	2035.5
40°	2788.4	2805.1	2758.0	2618.0	2378.0	2065.8	1824.6	1806.1	1809.1	1870.5	2170.1
42.5°	2922.4	2937.9	2942.7	2853.3	2608.5	2266.0	1978.3	1959.8	1961.6	2048.6	2335.7
45°	3025.5	3046.3	3113.6	3087.4	2868.2	2497.1	2186.2	2167.1	2168.3	2264.8	2535.8
47.5°	3067.8	3090.4	3226.8	3289.4	3144.0	2773.5	2444.7	2416.7	2420.9	2527.5	2764.6
50°	3054.1	3084.5	3269.1	3444.8	3375.2	3054.7	2753.9	2734.2	2718.1	2873.0	3013.0
52.5°	2936.1	2969.5	3265.0	3543.7	3564.0	3320.4	3073.1	3061.8	3058.2	3239.9	3290.6
55°	2588.8	2644.8	3121.4	3569.9	3711.7	3570.5	3419.2	3400.2	3418.6	3633.1	3571.1
57.5°	2396.4	2438.1	2840.2	3540.8	3832.6	3808.8	3764.7	3766.5	3787.4	4060.2	3911.3
60°	2286.8	2335.7	2684.2	3460.9	3948.8	4098.3	4126.3	4126.3	4163.8	4520.7	4256.8
62.5°	2141.5	2190.9	2538.2	3307.2	4056.0	4439.0	4580.8	4579.0	4593.9	5014.5	4594.5
65°	1846.6	1892.5	2245.1	3064.8	4108.4	4814.3	5097.3	5091.9	5062.1	5454.1	4817.9
67.5°	1340.9	1384.4	1719.7	2603.7	3919.6	5116.9	5629.2	5631.6	5453.5	5731.1	4829.8
70°	884.0	913.8	1105.6	1691.2	3187.5	4986.5	5852.0	5859.2	5513.7	5558.3	4298.5
72.5°	551.6	572.5	690.4	1008.5	1883.6	3947.0	5280.2	5299.8	4960.3	4884.6	3531.8
75°	366.3	380.6	459.3	587.9	871.5	2136.1	4013.7	4076.9	3975.6	3829.1	2460.8
77.5°	220.4	232.3	292.5	373.5	386.0	834.6	2342.8	2506.0	2520.3	1999.1	1030.5
80°	100.7	114.4	161.4	213.3	205.5	290.7	826.2	864.3	1019.8	635.0	325.2
82.5°	59.6	65.5	107.2	106.0	87.6	141.2	297.2	305.0	259.1	232.3	138.8
85°	23.8	28.0	45.3	39.9	32.2	45.9	112.0	117.4	112.6	101.3	51.2
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.1	10.7	15.5	28.0	15.5
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°	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5	1363.5
2.5°	1373.7	1370.1	1387.9	1401.6	1407.6	1413.6	1408.2	1406.4	1406.4	1394.5	1388.5
5°	1388.5	1390.3	1414.8	1426.1	1426.1	1421.3	1407.0	1396.9	1393.3	1377.8	1373.7
7.5°	1416.5	1424.3	1446.9	1446.3	1429.6	1403.4	1367.7	1340.3	1315.3	1304.6	1298.0
10°	1462.4	1472.5	1488.0	1463.0	1416.5	1347.4	1271.8	1212.2	1176.5	1147.9	1147.9
12.5°	1514.8	1524.4	1521.4	1463.6	1367.7	1238.4	1129.4	1060.9	1010.9	984.7	984.7
15°	1567.2	1575.0	1542.8	1436.2	1265.8	1093.7	974.5	892.3	848.9	824.4	824.4
17.5°	1620.3	1619.7	1551.8	1373.1	1133.0	933.4	816.7	752.9	738.1	733.9	733.3
20°	1671.5	1657.8	1540.4	1267.6	978.7	772.0	698.1	702.3	724.4	733.9	735.1
22.5°	1729.3	1695.3	1507.1	1133.0	803.6	660.0	664.8	699.3	731.5	745.8	747.6
25°	1788.2	1727.5	1451.1	975.1	657.0	618.9	655.8	694.6	730.9	749.4	751.2
27.5°	1812.1	1727.5	1355.8	792.3	579.0	601.6	642.1	679.7	717.8	739.2	743.4
30°	1831.7	1712.6	1222.3	627.3	546.8	585.0	620.1	654.7	692.2	718.4	723.2
32.5°	1859.1	1699.5	1060.9	527.2	531.9	568.9	593.3	622.5	656.4	673.7	671.9
35°	1891.3	1679.2	866.1	479.5	519.4	555.2	572.5	589.7	574.2	573.6	575.4
37.5°	1937.2	1661.4	696.4	458.1	511.1	545.6	559.9	523.0	501.6	492.6	489.1
40°	2003.3	1654.2	549.2	445.6	509.9	545.1	534.9	477.7	448.6	417.6	417.0
42.5°	2086.7	1648.9	453.9	439.6	514.1	558.8	500.4	448.0	387.8	374.1	372.9
45°	2193.9	1640.5	406.3	438.4	524.2	569.5	496.8	406.9	365.8	359.8	359.8
47.5°	2323.2	1627.4	384.8	438.4	535.5	564.7	486.1	397.9	355.6	362.2	366.3
50°	2471.5	1610.7	373.5	437.2	546.8	564.7	463.4	396.1	353.2	387.2	400.9
52.5°	2630.0	1591.7	365.8	432.5	554.6	565.3	464.6	402.1	355.6	393.2	404.5
55°	2805.1	1588.7	355.0	422.3	557.0	549.8	467.6	415.2	359.2	356.2	356.8
57.5°	3026.1	1624.4	347.3	407.4	547.4	518.2	473.6	424.7	355.0	355.6	359.8
60°	3257.2	1691.7	353.8	393.2	527.8	488.5	477.7	420.0	334.8	325.2	326.4
62.5°	3453.8	1743.0	359.2	386.6	499.2	462.3	473.6	409.2	323.5	321.1	326.4
65°	3536.0	1700.7	346.1	372.9	457.5	430.1	464.6	395.5	313.9	305.0	305.6
67.5°	3444.8	1502.3	320.5	342.5	410.4	389.0	450.3	377.7	300.8	290.1	287.7
70°	2942.7	1103.8	276.4	294.3	353.2	340.7	428.3	354.4	280.0	272.2	266.9
72.5°	2371.4	781.5	229.3	234.1	277.0	287.1	390.2	325.2	256.1	234.1	226.4
75°	1650.6	490.8	191.2	186.4	200.2	219.2	304.4	269.8	221.0	197.8	190.6
77.5°	710.1	252.0	149.5	147.1	133.4	151.9	233.5	225.2	185.3	158.5	154.3
80°	237.7	145.9	107.8	103.6	88.8	106.6	164.4	179.9	145.3	117.4	110.2
82.5°	119.1	84.6	68.5	62.0	59.6	67.3	97.1	112.0	100.7	81.0	68.5
85°	58.4	48.3	37.5	36.9	31.0	29.2	40.5	47.7	45.3	33.4	31.6
87.5°	21.4	19.1	11.9	9.5	6.0	4.2	2.4	2.4	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)