

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526178

Luminaire Tested: **GALN-SA1A-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-760-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

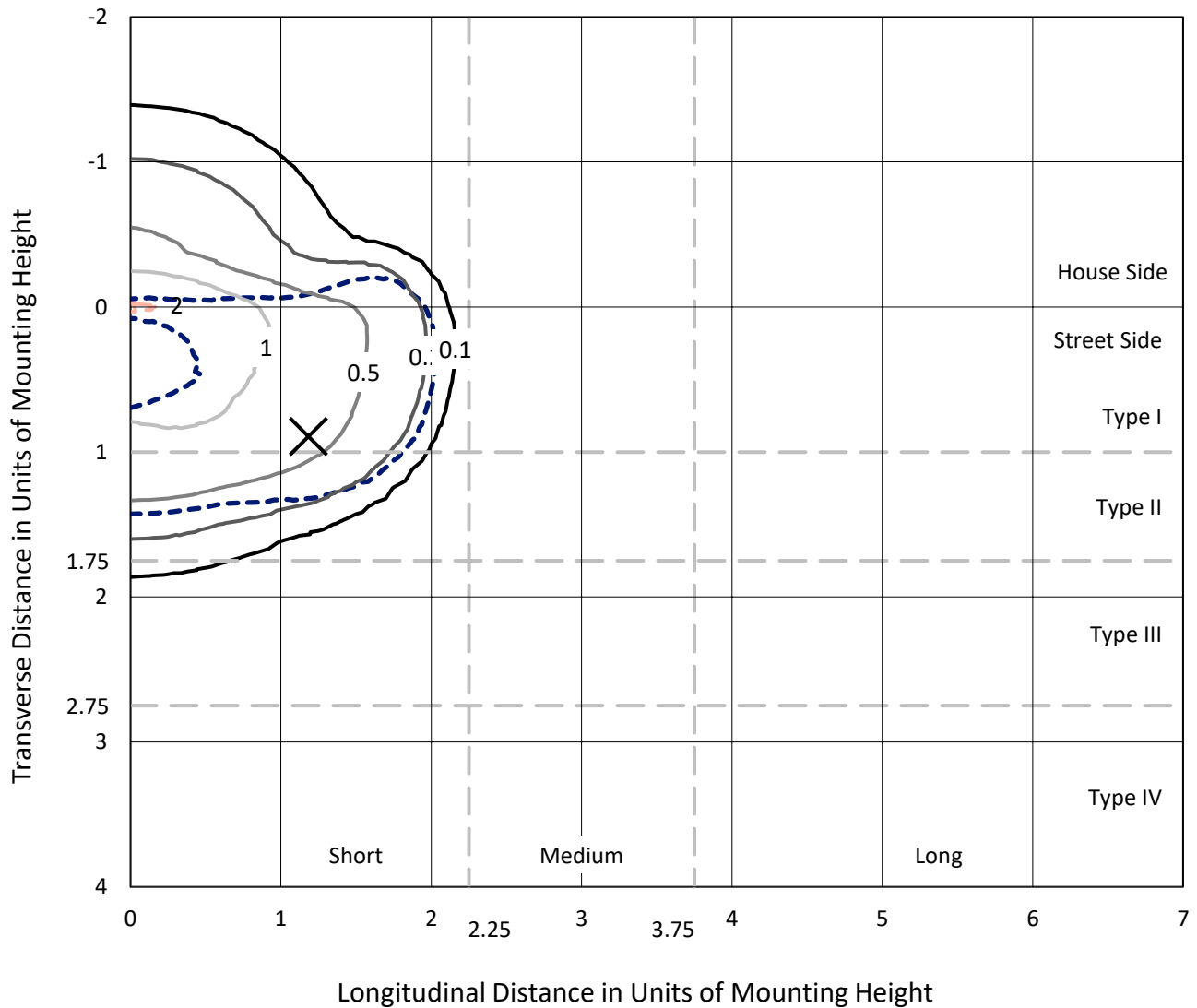
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

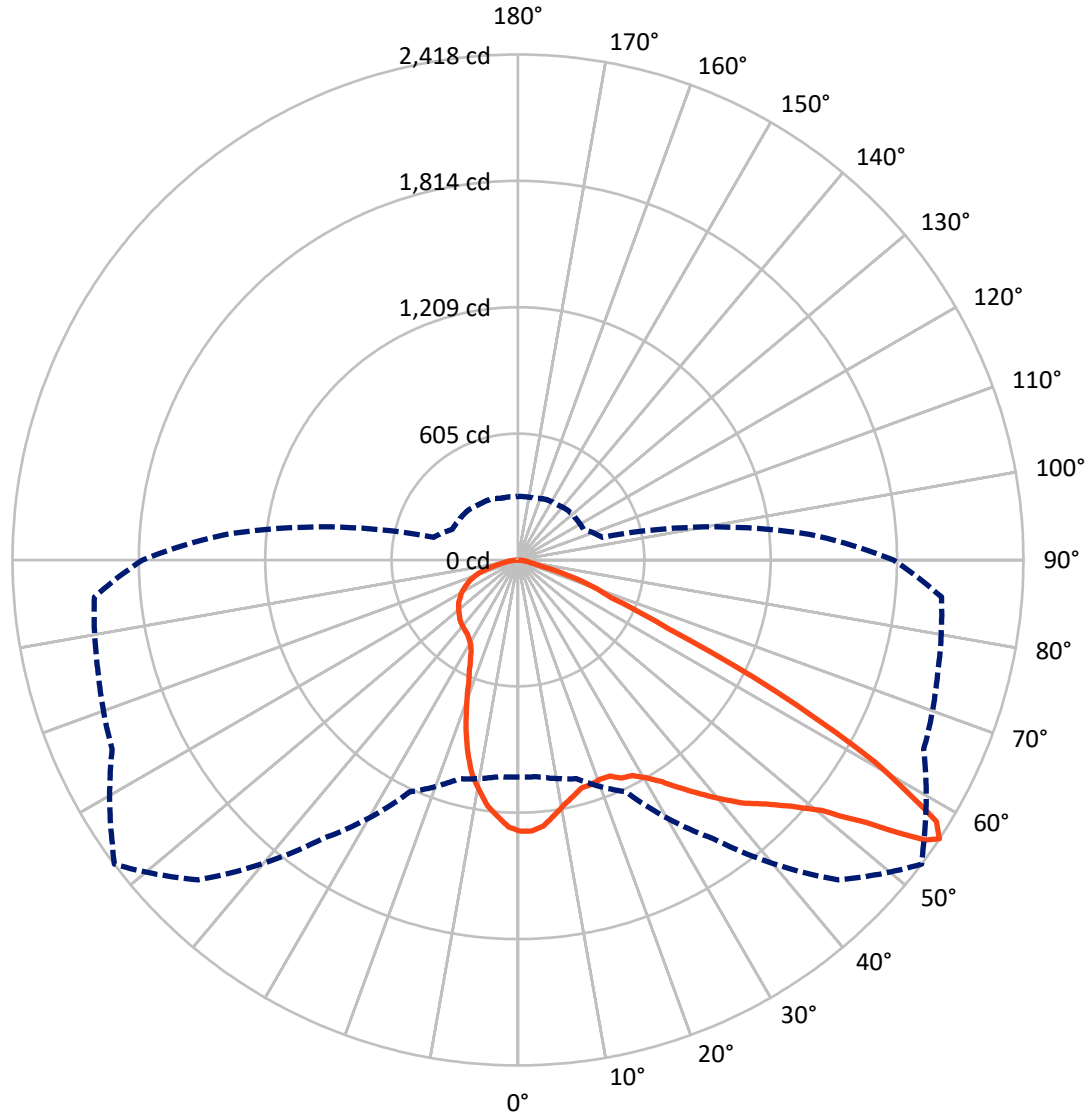
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1144.5	0.0	1144.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2777.5	0.0	2777.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	3922.0	0.0	3922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.9
10°-20°	286.9	7.3
20°-30°	423.1	10.8
30°-40°	604.5	15.4
40°-50°	832.0	21.2
50°-60°	983.2	25.1
60°-70°	524.0	13.4
70°-80°	132.9	3.4
80°-90°	20.7	0.5
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°	3922.0	100.0
0°-180°	3922.0	100.0

Coefficient of Utilization



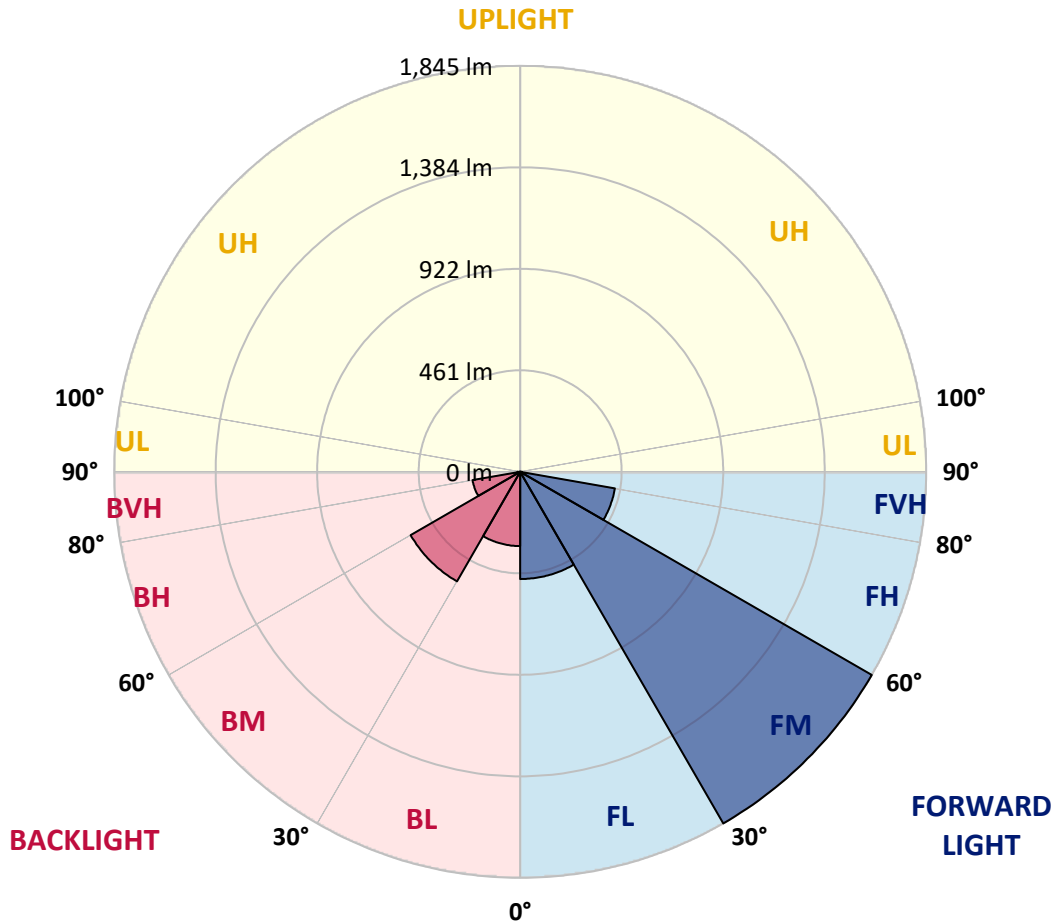
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.3	12.4			
FM (30°-60°)	1844.8	47.0			
FH (60°-80°)	437.1	11.1			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	337.6	8.6	B1/500		
BM (30°-60°)	574.7	14.7	B1/1000		
BH (60°-80°)	219.8	5.6	B1/500		G1/500
BVH (80°-90°)	12.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6
2.5°	1281.5	1270.4	1276.9	1274.4	1295.0	1301.1	1298.1	1300.6	1312.1	1306.6	1295.0
5°	1197.4	1213.0	1216.0	1223.6	1235.7	1259.3	1277.9	1283.0	1288.5	1314.2	1311.6
7.5°	1121.0	1131.5	1126.0	1148.1	1174.3	1212.5	1235.2	1239.2	1290.0	1304.1	1314.7
10°	1072.7	1062.1	1087.2	1093.3	1123.0	1166.7	1193.9	1210.5	1256.8	1312.6	1319.2
12.5°	1027.9	1024.4	1039.5	1056.6	1089.8	1135.0	1162.7	1169.3	1240.7	1299.6	1330.3
15°	994.7	990.6	1005.7	1018.3	1057.1	1097.3	1132.5	1151.1	1223.1	1292.0	1320.7
17.5°	968.5	968.0	976.6	999.2	1038.9	1072.7	1129.5	1130.5	1214.0	1303.6	1328.7
20°	967.0	966.5	968.0	993.2	1029.4	1070.6	1120.0	1129.0	1214.0	1295.5	1329.2
22.5°	979.6	971.5	980.6	996.7	1022.8	1074.2	1123.5	1143.6	1243.2	1335.3	1351.9
25°	999.7	1001.7	1006.7	1012.3	1027.4	1082.2	1154.7	1171.3	1277.4	1369.5	1383.1
27.5°	1036.4	1035.4	1037.4	1040.5	1053.5	1089.8	1167.2	1210.0	1348.9	1430.4	1416.8
30°	1090.3	1086.7	1094.8	1105.4	1093.3	1113.9	1209.0	1241.2	1415.3	1491.8	1454.5
32.5°	1139.1	1152.1	1167.2	1171.8	1157.2	1161.2	1264.3	1297.0	1470.6	1567.2	1500.8
35°	1199.9	1210.5	1230.6	1244.7	1242.2	1230.1	1339.8	1383.1	1550.6	1622.6	1549.6
37.5°	1259.3	1271.9	1305.1	1346.9	1323.7	1318.2	1420.3	1456.0	1575.3	1652.3	1585.3
40°	1354.9	1354.4	1411.8	1433.4	1454.0	1444.5	1503.8	1515.9	1588.4	1645.7	1586.3
42.5°	1467.1	1460.1	1518.4	1552.1	1578.8	1579.8	1590.9	1586.8	1594.4	1612.5	1575.8
45°	1573.8	1588.9	1647.7	1708.1	1734.8	1737.8	1664.3	1656.8	1605.0	1602.9	1555.7
47.5°	1704.1	1707.6	1755.9	1835.4	1897.3	1876.1	1759.4	1742.8	1651.2	1666.8	1589.4
50°	1711.6	1737.8	1781.1	1874.6	2064.8	2059.3	1882.7	1851.5	1725.7	1757.4	1683.4
52.5°	1553.6	1547.6	1598.9	1751.9	2052.2	2241.4	2087.0	2012.5	1885.7	1861.6	1835.9
55°	1183.8	1197.9	1243.2	1397.7	1782.1	2243.9	2365.2	2304.3	2056.8	2015.5	1985.8
56°	1038.4	1040.5	1083.2	1224.1	1626.1	2163.9	2418.0	2368.7	2141.8	2078.9	2033.6
57.5°	860.8	849.3	871.4	948.4	1372.5	1994.9	2360.1	2408.4	2241.4	2147.3	2084.4
60°	677.7	675.2	666.1	680.2	867.4	1502.8	1964.7	2073.4	2231.3	2082.9	1996.4
62.5°	553.4	540.9	559.0	579.1	602.7	932.3	1380.6	1444.5	1771.5	1662.8	1499.8
65°	429.2	423.1	445.8	511.2	525.3	592.2	786.4	835.7	1046.0	1027.4	904.6
67.5°	295.3	296.3	316.0	415.6	487.0	481.0	481.5	507.1	545.9	405.5	353.2
70°	187.2	186.7	197.2	267.7	391.9	396.0	375.8	368.3	349.2	211.3	223.9
72.5°	120.2	116.7	122.3	147.9	202.8	234.5	241.5	246.0	202.3	166.0	180.1
75°	67.9	64.4	62.4	68.9	80.0	92.6	101.6	104.6	117.2	125.8	133.3
77.5°	20.6	18.6	22.6	30.2	39.7	53.3	64.9	66.9	79.0	89.1	96.6
80°	9.1	10.1	14.1	20.1	28.2	37.7	45.8	48.8	56.9	64.4	66.4
82.5°	5.5	6.0	9.6	13.6	19.6	26.7	32.7	33.7	41.8	47.8	49.3
85°	2.0	2.5	5.0	8.0	12.6	17.1	17.1	18.6	17.1	17.1	18.6
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.0	2.5	3.0	3.5
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°	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6
2.5°	1301.1	1298.6	1294.5	1279.9	1278.4	1273.9	1248.7	1244.7	1248.7	1236.7	1237.7
5°	1298.6	1306.1	1275.9	1261.3	1234.2	1214.5	1191.9	1180.3	1159.7	1146.6	1161.2
7.5°	1309.6	1306.6	1268.9	1237.2	1196.4	1146.6	1106.9	1084.2	1048.0	1037.9	1045.5
10°	1305.6	1289.5	1245.2	1203.5	1126.5	1082.7	1018.3	955.9	921.7	904.1	901.6
12.5°	1300.1	1295.5	1221.6	1149.6	1068.6	976.6	886.0	827.1	771.3	747.1	750.7
15°	1306.6	1268.4	1177.3	1086.2	978.6	857.8	760.2	684.2	645.5	629.9	629.9
17.5°	1303.6	1255.3	1156.2	1015.3	879.0	736.1	628.9	583.1	567.0	567.0	571.5
20°	1305.1	1263.8	1113.4	944.4	761.2	619.8	541.9	525.3	532.3	534.8	537.3
22.5°	1313.7	1235.7	1071.7	866.4	652.0	530.3	492.1	492.6	505.1	518.7	516.2
25°	1324.2	1224.6	1020.8	788.9	568.5	486.5	474.4	472.9	482.5	489.5	490.5
27.5°	1315.2	1205.5	969.0	692.3	500.1	457.3	454.8	455.8	458.8	472.9	468.4
30°	1344.8	1211.0	904.1	611.3	462.4	447.8	444.8	443.3	447.8	451.8	448.3
32.5°	1381.6	1191.4	855.8	533.3	443.8	440.7	434.7	432.7	435.2	431.2	433.2
35°	1397.7	1187.9	792.9	477.5	429.2	426.6	423.1	422.6	423.1	419.6	416.6
37.5°	1406.7	1204.5	721.0	451.8	420.1	422.6	414.6	413.6	404.5	406.5	408.0
40°	1422.3	1178.8	662.6	427.2	414.6	409.5	402.5	401.0	395.0	391.4	395.0
42.5°	1399.7	1171.3	605.3	416.6	406.5	401.0	396.0	387.4	385.4	382.4	380.4
45°	1381.6	1128.0	553.9	403.5	397.0	393.9	384.4	375.3	367.8	370.8	366.3
47.5°	1395.2	1112.9	503.1	392.4	383.9	380.4	370.8	363.8	356.2	352.7	351.7
50°	1449.5	1141.1	460.4	384.4	372.8	370.8	358.2	350.2	343.1	340.6	341.6
52.5°	1579.3	1218.1	431.2	367.8	362.2	353.2	346.1	336.1	331.6	323.5	328.5
55°	1743.8	1343.3	423.6	352.2	349.2	341.1	331.6	324.0	315.5	308.9	307.4
56°	1796.6	1403.2	417.6	346.1	341.1	336.6	324.0	319.5	305.9	304.4	303.4
57.5°	1839.4	1456.0	418.6	334.6	329.5	325.5	318.0	306.9	297.8	292.3	294.8
60°	1742.8	1363.0	399.5	317.0	316.0	308.4	297.8	292.8	281.7	275.2	273.7
62.5°	1295.5	925.2	324.0	294.3	293.8	285.8	273.7	268.2	266.2	257.1	257.1
65°	746.1	580.1	280.2	275.7	271.7	263.6	251.6	247.0	242.0	239.0	236.5
67.5°	318.5	300.9	254.6	254.1	249.5	239.5	227.4	220.4	213.8	207.8	210.8
70°	230.9	234.5	229.9	227.4	221.9	209.3	198.7	190.2	180.1	176.1	179.1
72.5°	183.1	190.7	197.2	197.7	191.2	176.6	165.0	153.5	142.4	136.8	139.4
75°	138.9	143.9	150.4	151.9	142.4	132.3	121.3	109.2	100.6	94.1	95.1
77.5°	100.1	99.1	105.2	104.1	99.6	92.6	82.5	71.4	61.9	55.8	56.3
80°	68.4	69.9	73.5	73.0	67.4	62.9	55.3	46.3	39.2	34.2	33.2
82.5°	47.8	50.3	53.3	50.8	46.3	41.8	36.2	29.7	24.1	20.1	19.1
85°	17.1	19.6	22.6	24.1	25.7	24.7	20.6	16.6	12.1	10.1	9.6
87.5°	3.5	4.0	4.5	4.5	4.5	4.0	3.5	3.5	3.0	1.5	1.5
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)