

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: P526140

Luminaire Tested: **GALN-SA1A-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039 lumens
Efficiency: N/A
Efficacy: 122.4 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

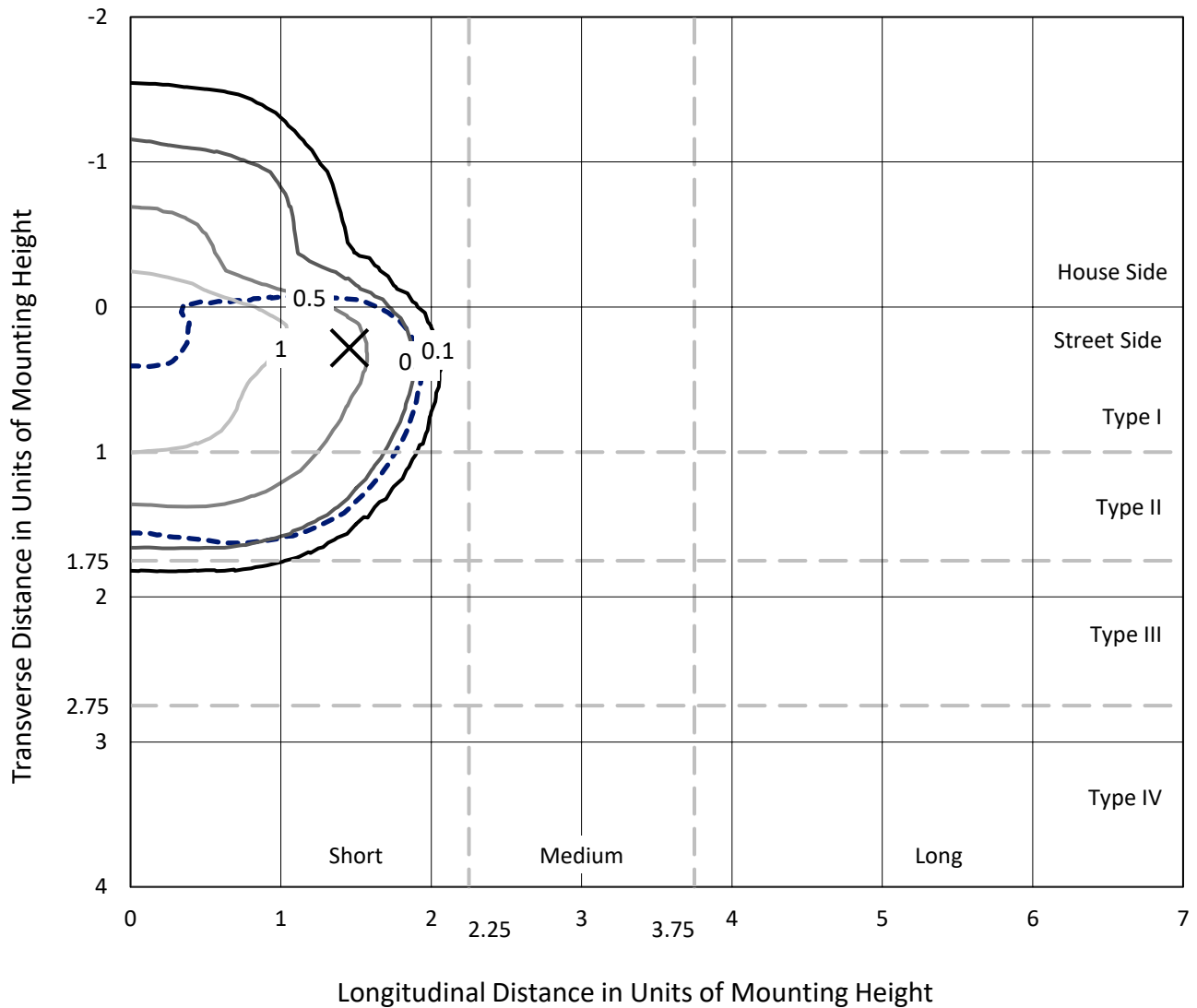
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

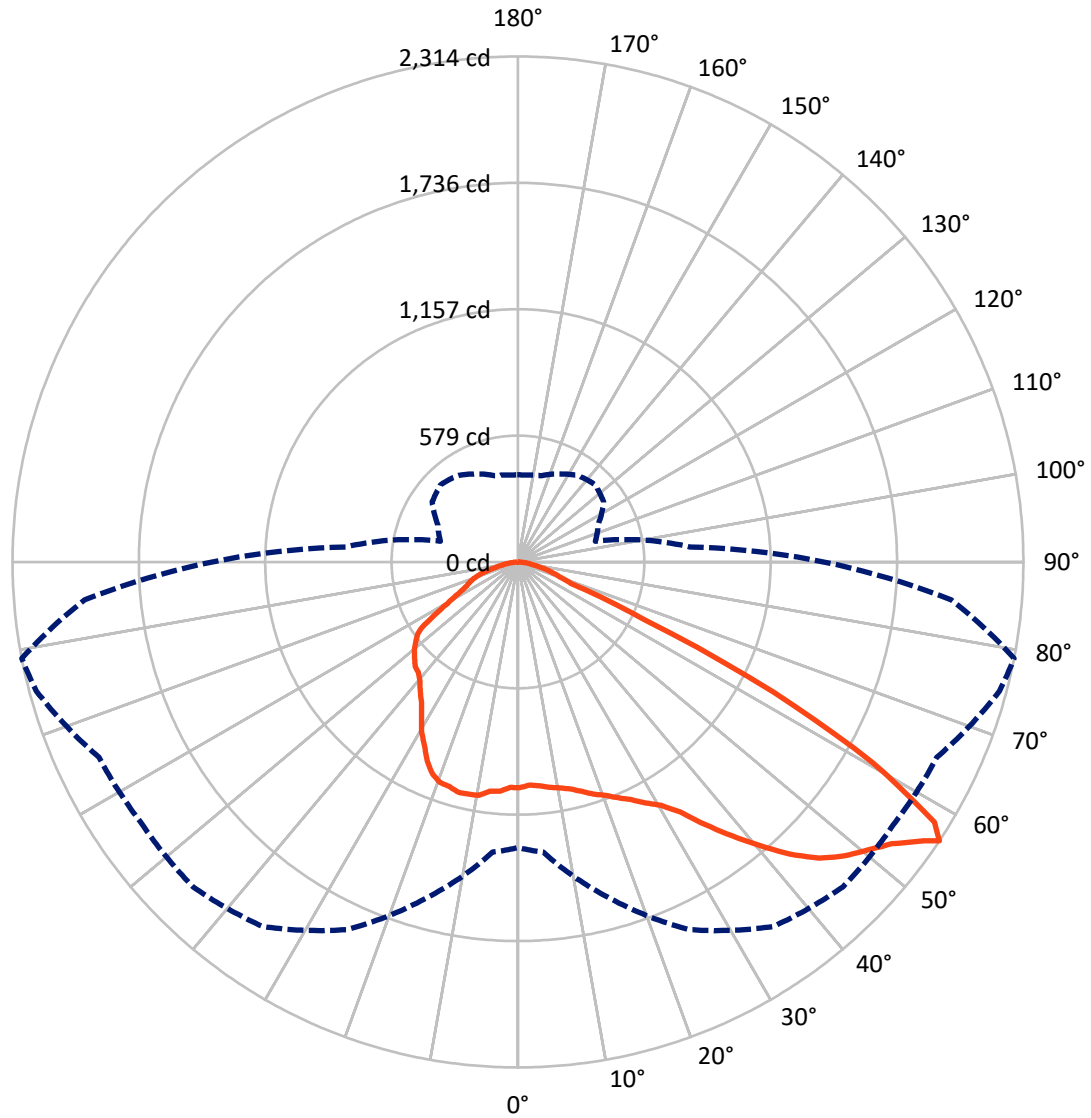
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1192.8	0.0	1192.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2846.2	0.0	2846.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	4039.0	0.0	4039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	2.3
10°-20°	257.1	6.4
20°-30°	439.9	10.9
30°-40°	674.2	16.7
40°-50°	911.2	22.6
50°-60°	1046.5	25.9
60°-70°	477.0	11.8
70°-80°	117.6	2.9
80°-90°	21.4	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°	4039.0	100.0
0°-180°	4039.0	100.0

Coefficient of Utilization

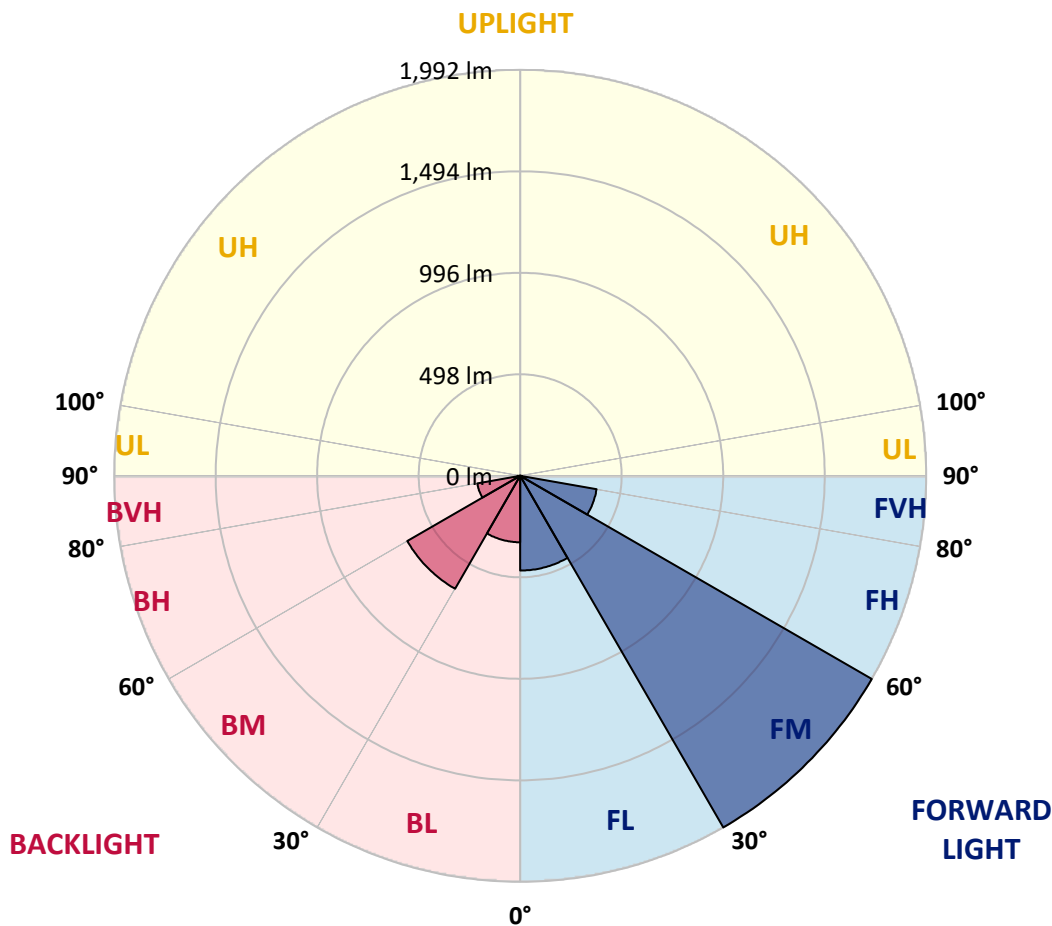


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.7	11.5			
FM (30°-60°)	1992.2	49.3			
FH (60°-80°)	380.8	9.4			G0/660
FVH (80°-90°)	8.5	0.2			G0/10
BL (0°-30°)	326.3	8.1	B1/500		
BM (30°-60°)	639.8	15.8	B1/1000		
BH (60°-80°)	213.9	5.3	B1/500		G1/500
BVH (80°-90°)	12.8	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°	55°	65°	75°	79°	85°
0°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4
2.5°	983.1	980.6	986.6	991.2	996.7	1003.7	1007.3	1009.3	1026.9	1022.4	1035.9
5°	962.0	955.4	960.0	963.5	973.0	981.6	991.2	1006.3	1022.4	1029.4	1046.0
7.5°	943.4	939.8	938.8	941.3	954.4	965.5	982.1	1004.2	1030.4	1042.0	1051.5
10°	912.7	907.6	915.2	931.8	935.3	958.5	977.6	1009.3	1031.9	1052.0	1080.2
12.5°	899.1	894.1	895.6	905.1	929.8	951.9	974.6	1010.3	1058.1	1066.1	1103.9
15°	920.7	915.7	917.2	914.7	938.3	949.9	985.6	1030.4	1076.2	1089.8	1130.0
17.5°	970.0	970.5	964.0	958.5	952.9	977.6	1002.2	1042.5	1083.2	1117.4	1147.6
20°	1064.1	1047.5	1034.4	1003.2	994.7	1005.2	1036.4	1075.2	1111.9	1140.1	1174.3
22.5°	1136.6	1138.1	1119.5	1068.1	1049.5	1054.0	1080.7	1112.4	1152.7	1172.8	1212.0
25°	1241.7	1231.1	1211.0	1170.3	1128.5	1132.0	1151.7	1180.3	1191.4	1205.5	1248.3
27.5°	1337.8	1340.8	1301.1	1262.8	1211.0	1201.0	1236.2	1241.2	1222.6	1249.3	1263.9
30°	1435.4	1432.9	1406.7	1362.0	1311.1	1313.2	1328.8	1304.1	1278.4	1293.0	1303.1
32.5°	1536.5	1507.9	1506.9	1466.6	1427.9	1409.3	1390.1	1402.2	1362.5	1365.5	1355.9
35°	1617.5	1621.6	1598.4	1569.8	1550.6	1517.9	1465.6	1487.2	1479.7	1476.2	1434.9
37.5°	1676.4	1660.8	1672.4	1662.8	1644.7	1604.0	1549.6	1570.3	1573.8	1590.9	1543.1
40°	1724.7	1718.2	1748.9	1753.9	1741.3	1653.3	1555.7	1617.0	1669.9	1707.1	1650.3
42.5°	1747.9	1761.9	1794.1	1832.9	1804.7	1710.6	1586.9	1652.8	1770.5	1829.4	1751.9
45°	1779.1	1760.9	1808.7	1879.7	1880.2	1758.9	1617.0	1701.1	1849.0	1934.5	1821.3
47.5°	1747.4	1756.4	1805.7	1895.8	1918.9	1809.7	1698.6	1769.5	1935.5	2011.5	1885.7
50°	1676.4	1694.5	1784.6	1878.2	1948.1	1863.6	1792.1	1843.5	2015.5	2073.4	1896.3
52.5°	1602.5	1612.5	1753.4	1891.8	1961.2	1933.0	1917.4	1945.6	2113.1	2143.3	1909.4
55°	1401.2	1449.0	1650.3	1885.7	2025.1	2058.3	2046.2	2087.5	2223.8	2254.0	1980.8
56°	1308.1	1333.3	1588.4	1857.5	2037.7	2104.1	2098.0	2116.6	2282.7	2314.4	1991.9
57.5°	1136.1	1138.1	1354.4	1732.8	1990.4	2117.7	2111.6	2126.2	2271.1	2249.5	1894.8
60°	710.9	742.1	921.7	1332.8	1692.5	1964.7	1998.9	1881.7	1914.9	1869.1	1474.2
62.5°	368.3	363.8	483.0	779.3	1123.5	1406.7	1438.4	1432.9	1381.6	1314.7	963.0
65°	183.6	184.6	252.6	385.9	575.6	736.6	825.1	834.7	698.3	642.5	456.8
67.5°	133.3	138.4	181.6	236.0	271.2	303.4	371.8	364.8	276.2	262.6	243.5
70°	103.6	108.2	147.4	180.1	163.5	163.5	178.1	184.1	196.7	202.3	208.8
72.5°	75.5	79.0	112.7	124.3	107.2	115.2	133.3	147.4	160.5	162.5	170.1
75°	51.8	54.8	74.0	68.4	64.4	79.5	97.6	110.7	120.2	125.3	129.8
77.5°	33.7	34.7	42.3	35.7	41.3	51.3	63.4	74.5	84.0	88.0	89.1
80°	15.1	16.6	18.1	22.6	28.7	36.7	45.3	54.3	60.4	61.9	64.9
82.5°	8.6	8.6	11.1	16.1	21.1	26.7	32.7	39.2	46.3	47.8	47.3
85°	4.5	4.5	6.5	9.6	13.1	15.6	15.1	15.6	16.6	19.1	18.6
87.5°	1.5	1.5	2.0	2.0	2.5	3.0	2.5	3.5	4.5	4.5	4.5
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°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4
2.5°	1031.9	1036.4	1030.4	1043.5	1043.5	1041.0	1028.4	1032.4	1035.4	1035.4	1037.9
5°	1051.5	1050.0	1054.0	1038.5	1028.9	1025.4	1004.7	994.7	986.1	985.6	978.1
7.5°	1062.6	1058.6	1057.1	1045.5	1003.2	977.6	933.3	907.6	902.1	882.5	890.0
10°	1080.2	1087.8	1080.2	1017.3	958.5	899.6	856.3	816.6	801.0	788.4	780.9
12.5°	1116.4	1112.9	1069.1	984.1	901.6	831.7	767.3	725.5	709.9	698.8	697.8
15°	1147.1	1129.5	1062.6	931.8	813.1	738.6	685.8	656.1	649.0	650.0	654.6
17.5°	1157.7	1145.6	1028.4	877.5	747.1	659.6	634.9	630.4	637.0	644.5	646.5
20°	1174.3	1155.2	1014.3	803.5	665.6	610.3	608.8	624.9	637.0	648.0	649.5
22.5°	1209.0	1160.7	968.5	733.6	609.8	595.7	610.3	623.9	642.5	651.5	643.5
25°	1219.1	1148.6	904.1	649.5	574.6	586.6	602.2	620.9	633.9	639.0	642.5
27.5°	1227.6	1130.0	817.1	593.7	563.5	586.1	602.2	617.8	624.9	629.4	633.4
30°	1251.8	1124.5	741.6	556.5	556.5	576.1	596.7	600.7	610.3	615.8	622.9
32.5°	1263.9	1086.2	664.1	532.8	549.4	581.1	582.6	590.2	590.7	595.2	587.7
35°	1295.5	1059.1	592.2	515.7	552.4	576.1	583.6	579.1	554.4	542.4	544.9
37.5°	1318.7	1045.5	540.4	513.7	552.9	581.6	585.6	551.4	525.8	505.6	510.7
40°	1381.1	1011.8	501.1	510.2	557.5	587.7	576.6	539.4	493.1	472.4	468.9
42.5°	1428.9	987.6	476.5	506.1	561.0	596.2	572.1	515.2	467.9	448.8	453.8
45°	1484.2	982.1	463.4	507.2	567.0	600.7	566.5	496.6	446.3	438.7	437.2
47.5°	1503.8	942.4	449.3	498.6	565.5	599.2	547.9	482.5	438.2	439.2	443.3
50°	1471.1	901.6	438.7	481.0	555.5	585.6	518.7	463.9	433.7	446.3	453.3
52.5°	1429.4	859.8	417.1	457.3	534.8	564.5	505.1	462.9	429.2	425.1	426.7
55°	1442.0	825.6	386.9	425.1	501.6	525.3	490.0	453.3	418.1	403.0	408.0
56°	1401.2	790.4	367.3	405.0	479.0	500.1	482.5	444.8	409.0	399.0	399.0
57.5°	1286.0	672.2	341.6	372.8	431.2	456.3	467.9	439.7	399.0	381.4	381.9
60°	948.4	478.0	306.4	328.5	357.2	377.3	431.2	425.6	373.8	361.7	357.2
62.5°	584.6	349.2	281.2	289.8	304.4	321.0	376.3	385.4	347.2	334.1	331.1
65°	327.5	267.2	262.1	265.7	272.7	281.2	312.4	332.6	306.4	286.3	285.3
67.5°	239.5	239.0	243.0	246.0	249.0	249.0	256.6	264.6	261.1	245.0	243.5
70°	212.8	214.3	217.4	217.9	218.9	215.3	209.3	206.8	210.8	200.7	198.7
72.5°	175.6	180.6	184.1	184.6	179.1	174.6	166.5	158.0	155.0	153.0	152.4
75°	134.8	138.4	139.9	139.4	137.4	130.8	121.3	112.7	107.2	101.1	104.1
77.5°	91.1	96.1	98.6	98.6	95.6	85.5	81.0	74.5	68.9	62.4	63.4
80°	63.9	67.4	71.4	70.9	65.9	60.9	54.3	48.3	43.8	38.7	38.2
82.5°	47.8	49.8	51.8	50.8	47.3	42.3	37.7	32.2	27.2	23.6	23.6
85°	17.1	18.6	22.6	23.6	25.7	25.7	21.6	18.1	14.6	12.1	12.1
87.5°	5.0	5.0	5.5	5.5	5.0	5.5	4.5	5.0	5.5	3.5	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

(END OF REPORT)