

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: P526684

Luminaire Tested: **GALN-SA1C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4459 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

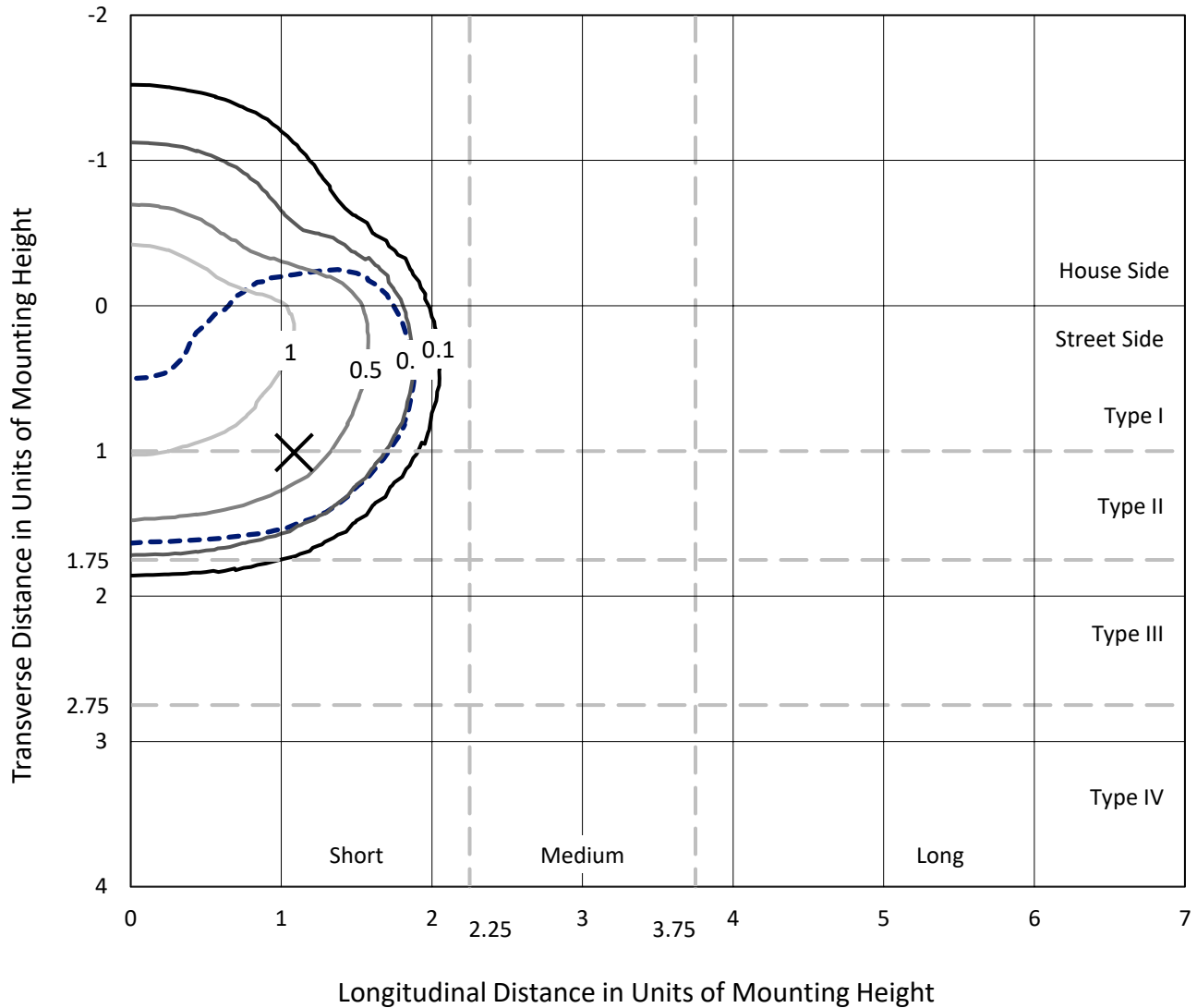
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526684  
 CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

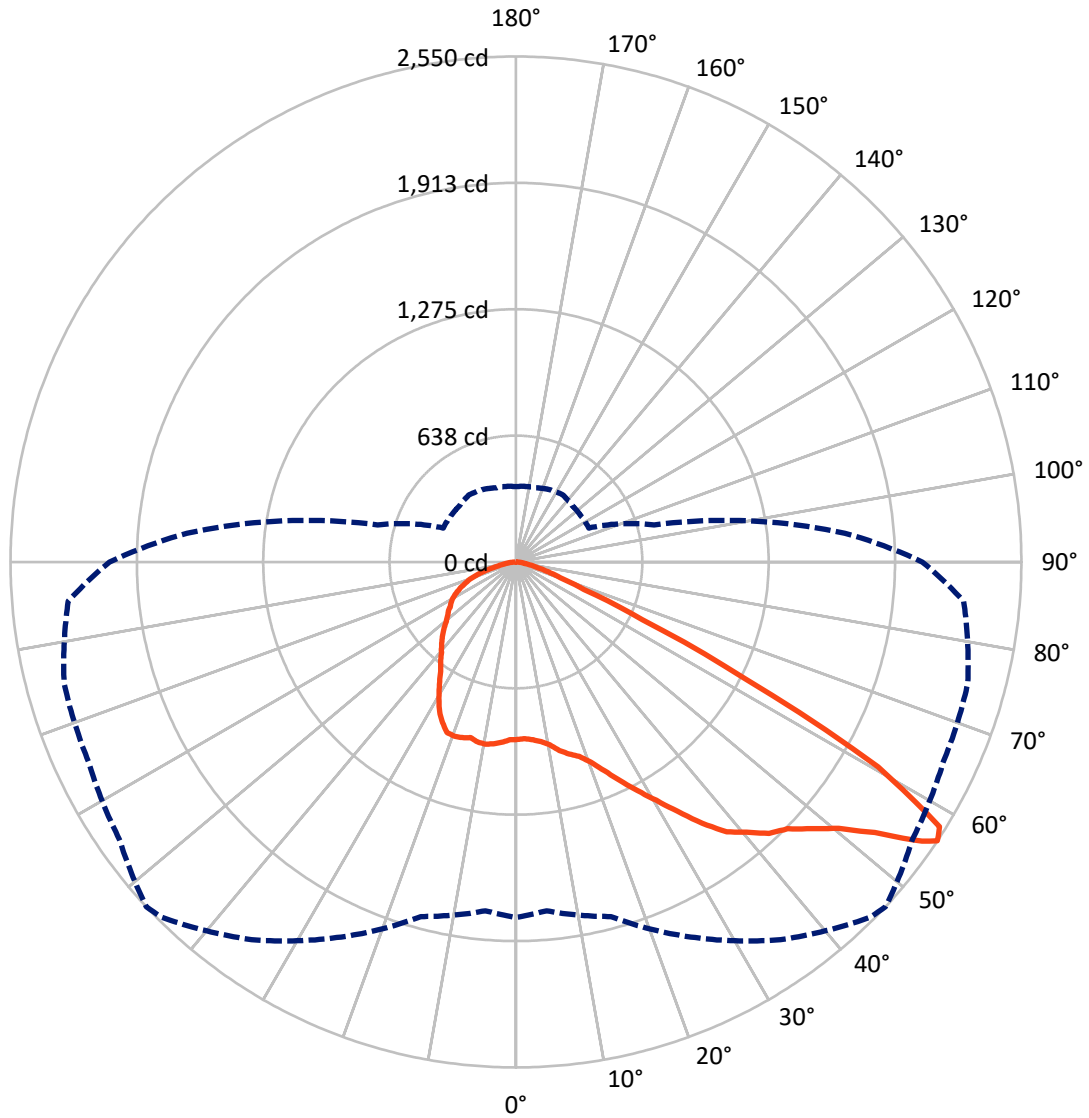
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P526684  
CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P526684  
 CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1413.0	0.0	1413.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3046.0	0.0	3046.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	4459.0	0.0	4459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	2.0
10°-20°	275.3	6.2
20°-30°	486.7	10.9
30°-40°	730.9	16.4
40°-50°	1003.2	22.5
50°-60°	1195.1	26.8
60°-70°	511.4	11.5
70°-80°	144.7	3.2
80°-90°	24.4	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°	4459.0	100.0
0°-180°	4459.0	100.0

**Coefficient of Utilization**

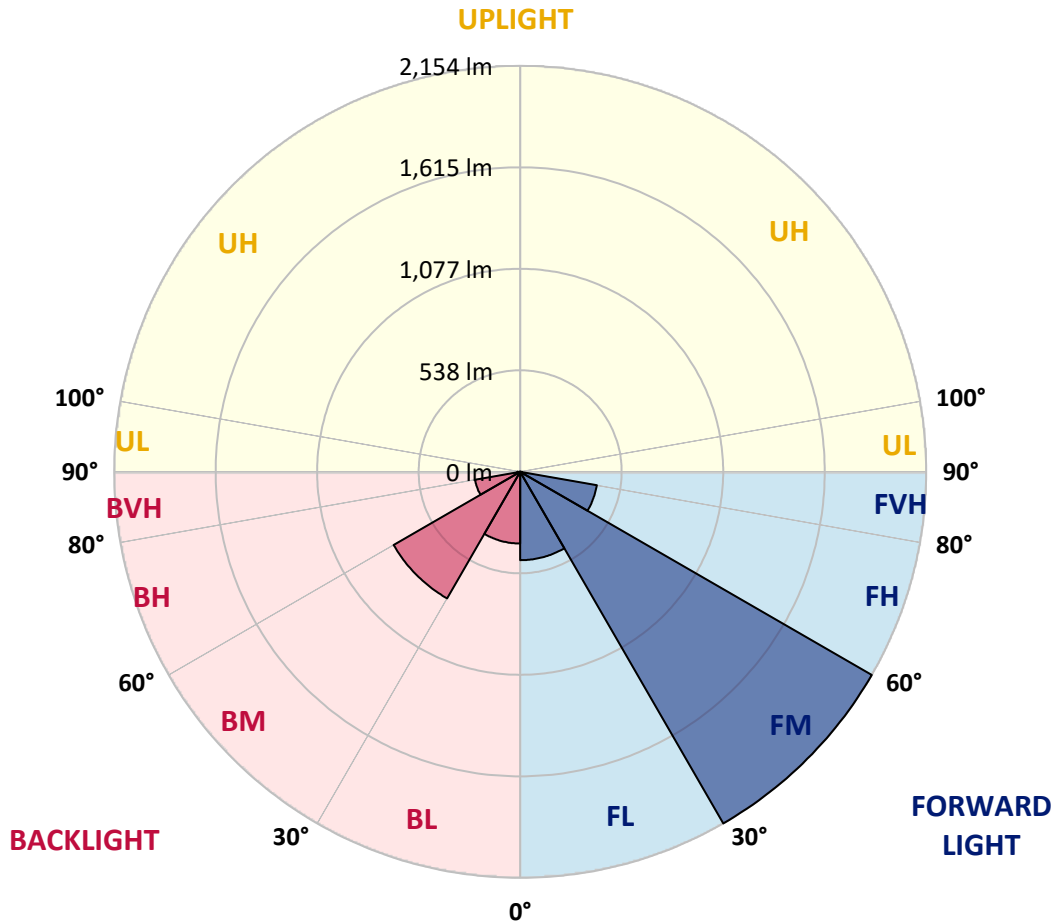


REPORT NUMBER: P526684  
 CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.8	10.5			
FM (30°-60°)	2153.8	48.3			
FH (60°-80°)	413.1	9.3			G0/660
FVH (80°-90°)	10.3	0.2			G1/100
BL (0°-30°)	380.4	8.5	B1/500		
BM (30°-60°)	775.4	17.4	B1/1000		
BH (60°-80°)	243.1	5.5	B1/500		G1/500
BVH (80°-90°)	14.0	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





REPORT NUMBER: P526684

CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	892.3	890.6	889.4	898.5	895.1	895.7	892.3	895.7	898.0	892.8	900.2
5°	890.6	895.7	891.1	894.0	901.4	899.1	901.4	908.2	906.5	904.8	902.5
7.5°	906.5	907.1	910.5	911.6	913.9	911.6	915.0	921.3	919.6	909.9	911.0
10°	929.2	930.4	930.9	937.2	941.2	941.7	937.8	932.1	931.5	944.6	935.5
12.5°	955.4	952.5	959.4	961.6	966.2	971.3	976.4	964.5	971.9	972.4	961.6
15°	993.5	996.3	988.4	988.4	990.1	990.6	1004.9	999.2	998.0	991.8	996.3
17.5°	1050.4	1031.0	1030.5	1022.5	1021.4	1025.9	1031.0	1035.6	1050.9	1038.4	1014.0
20°	1091.9	1096.4	1079.9	1070.3	1072.0	1082.2	1077.1	1097.6	1108.4	1087.9	1064.0
22.5°	1165.2	1149.9	1153.9	1132.3	1134.0	1144.8	1144.2	1165.2	1171.5	1139.1	1104.4
25°	1214.7	1210.7	1214.1	1197.1	1199.4	1207.9	1221.5	1256.2	1246.0	1210.2	1130.0
27.5°	1286.9	1279.0	1276.1	1269.9	1267.6	1290.3	1306.3	1343.2	1335.8	1283.5	1175.5
30°	1360.9	1355.7	1358.6	1333.0	1342.1	1390.4	1395.0	1445.6	1442.2	1350.1	1226.1
32.5°	1412.0	1414.9	1420.0	1405.8	1446.2	1484.8	1500.2	1557.6	1560.5	1464.4	1323.9
35°	1494.5	1484.8	1487.7	1504.2	1522.9	1593.5	1618.5	1656.6	1680.5	1584.4	1417.7
37.5°	1546.3	1556.5	1544.5	1570.7	1619.6	1704.3	1727.1	1766.3	1791.4	1702.6	1545.7
40°	1627.0	1610.5	1619.0	1637.8	1687.9	1798.2	1791.9	1832.3	1840.3	1803.3	1665.1
42.5°	1714.0	1706.1	1694.1	1736.8	1778.8	1859.0	1871.5	1852.8	1893.1	1901.7	1835.7
45°	1818.1	1827.8	1829.5	1830.6	1867.6	1937.5	1920.4	1904.0	1950.6	2012.6	1941.5
47.5°	1914.8	1884.1	1906.2	1936.9	1989.3	1989.8	2009.7	1970.5	2020.0	2075.1	2037.0
50°	1947.2	1932.4	1962.0	2020.0	2100.7	2109.2	2111.5	2055.8	2081.4	2125.2	2070.0
52.5°	1934.7	1929.5	2005.2	2095.0	2213.3	2256.5	2267.9	2199.1	2213.3	2193.4	2142.8
55°	1875.0	1890.3	1966.5	2149.6	2331.0	2464.7	2486.3	2399.3	2308.9	2324.2	2268.5
56°	1793.1	1766.3	1851.6	2087.6	2325.9	2532.4	2550.0	2441.4	2379.9	2360.0	2267.3
57.5°	1521.2	1486.5	1598.6	1878.4	2196.8	2506.8	2519.8	2459.0	2368.0	2327.6	2101.9
60°	890.6	907.6	1049.8	1295.5	1694.7	2055.2	2099.0	2143.4	2082.5	1901.7	1564.5
62.5°	429.9	419.1	520.9	742.7	1032.7	1312.0	1298.9	1423.4	1491.7	1351.2	987.8
65°	225.2	224.1	284.3	405.5	567.5	689.2	701.2	768.3	862.1	696.1	501.6
67.5°	165.5	170.0	200.2	284.9	365.1	372.5	370.8	404.3	413.4	349.7	308.2
70°	129.7	131.9	154.1	216.7	271.8	243.4	238.3	242.3	269.0	280.4	266.7
72.5°	93.8	96.1	114.9	146.2	170.0	166.1	169.5	191.6	224.6	236.6	222.4
75°	62.6	64.3	74.5	89.3	100.7	108.6	114.9	140.5	171.2	178.0	171.2
77.5°	43.2	44.9	51.8	63.1	64.3	69.4	71.7	83.6	102.4	110.9	106.3
80°	24.5	24.5	27.9	32.4	39.8	46.6	47.8	57.4	66.0	71.7	72.8
82.5°	11.4	11.9	14.8	19.9	26.2	32.4	33.6	39.8	46.1	51.8	53.5
85°	5.7	6.3	8.5	11.9	15.9	19.3	18.8	19.3	20.5	19.3	19.9
87.5°	1.7	1.7	2.3	2.8	2.3	2.8	2.8	3.4	4.0	4.5	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526684

CATALOG NUMBER: GALN-SA1C-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7	895.7
2.5°	900.8	902.5	891.1	901.9	898.0	897.4	905.3	904.2	907.1	905.9	899.1
5°	901.4	897.4	909.3	898.5	903.6	914.4	907.1	924.1	915.6	921.3	908.8
7.5°	919.0	920.1	917.9	922.4	920.1	925.2	921.3	925.2	918.4	919.0	930.4
10°	934.3	930.9	934.9	929.2	933.2	931.5	922.4	919.6	921.8	919.0	926.4
12.5°	962.8	956.5	953.7	946.9	942.3	925.2	911.0	903.1	913.9	915.6	912.2
15°	991.8	992.4	979.3	963.9	935.5	909.9	913.3	916.2	916.2	920.7	912.2
17.5°	1010.0	1010.0	998.0	967.3	938.3	923.5	920.1	911.0	903.1	901.9	901.4
20°	1041.8	1032.2	1004.9	966.8	937.2	930.4	904.8	883.2	866.7	861.0	860.4
22.5°	1078.2	1053.8	1015.7	967.9	935.5	925.8	878.0	845.6	816.1	803.6	805.3
25°	1111.8	1072.5	1021.9	962.8	929.2	882.6	829.1	784.2	753.5	743.3	738.2
27.5°	1135.1	1092.4	1021.9	967.3	905.9	834.3	779.7	722.2	695.5	688.7	689.8
30°	1166.4	1117.5	1039.6	957.7	859.3	771.7	706.3	668.8	652.8	647.2	651.1
32.5°	1239.7	1182.9	1064.0	934.3	804.1	709.1	656.3	635.2	611.9	600.5	596.5
35°	1319.3	1244.8	1087.9	895.1	742.1	652.3	619.3	600.0	572.1	559.6	561.9
37.5°	1431.9	1324.5	1089.6	830.3	675.0	620.4	590.3	560.2	537.4	518.1	512.4
40°	1583.8	1433.1	1085.6	762.0	621.0	582.9	560.7	523.2	497.6	484.0	486.8
42.5°	1717.4	1560.5	1069.1	684.7	572.1	557.3	532.3	495.3	470.3	456.1	454.9
45°	1830.0	1654.3	1037.8	618.7	531.2	528.9	499.9	471.4	451.5	438.5	444.1
47.5°	1934.1	1729.9	990.6	552.8	493.6	498.2	470.3	452.7	440.2	428.2	427.7
50°	1971.6	1728.8	949.1	498.2	463.5	461.2	460.1	441.3	428.2	418.0	422.5
52.5°	2034.2	1748.1	904.2	460.6	436.2	436.7	440.7	427.1	412.3	406.0	411.7
55°	2124.0	1751.0	805.3	416.8	413.4	417.4	417.4	408.3	395.8	390.7	387.8
56°	2050.7	1666.2	722.2	405.5	402.1	402.1	412.9	402.6	387.3	383.3	379.9
57.5°	1891.4	1459.8	604.5	391.8	386.7	394.7	400.4	389.5	375.3	369.6	373.1
60°	1304.6	987.8	454.4	362.3	362.3	375.3	379.9	364.0	357.7	357.1	352.6
62.5°	761.5	575.5	355.4	335.5	336.7	347.5	350.9	341.8	333.8	343.5	348.0
65°	403.8	343.5	304.8	307.1	307.7	316.2	331.0	330.4	329.8	332.7	333.2
67.5°	292.3	285.5	276.9	274.7	275.8	282.1	296.9	308.2	307.7	300.8	295.7
70°	260.5	250.8	245.7	246.2	241.7	249.1	261.0	268.4	255.3	247.4	244.0
72.5°	216.7	213.8	210.4	211.0	201.9	200.2	186.5	186.5	183.1	180.8	184.8
75°	165.5	164.3	166.1	163.2	153.5	143.3	135.3	128.0	116.6	112.0	109.8
77.5°	104.6	108.0	112.0	105.8	101.8	94.4	86.4	79.0	69.9	64.8	64.8
80°	71.1	73.9	76.8	75.6	71.1	64.3	58.0	50.0	43.8	39.8	39.2
82.5°	54.0	56.3	60.3	55.7	51.2	45.5	40.4	34.7	29.0	24.5	24.5
85°	19.3	22.2	24.5	26.7	28.4	29.0	25.0	20.5	16.5	13.1	12.5
87.5°	5.1	5.7	6.3	5.7	5.7	5.7	6.3	5.7	5.1	4.0	4.0
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)