

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: P450676

Luminaire Tested: **GALN-SA1C-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5900 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

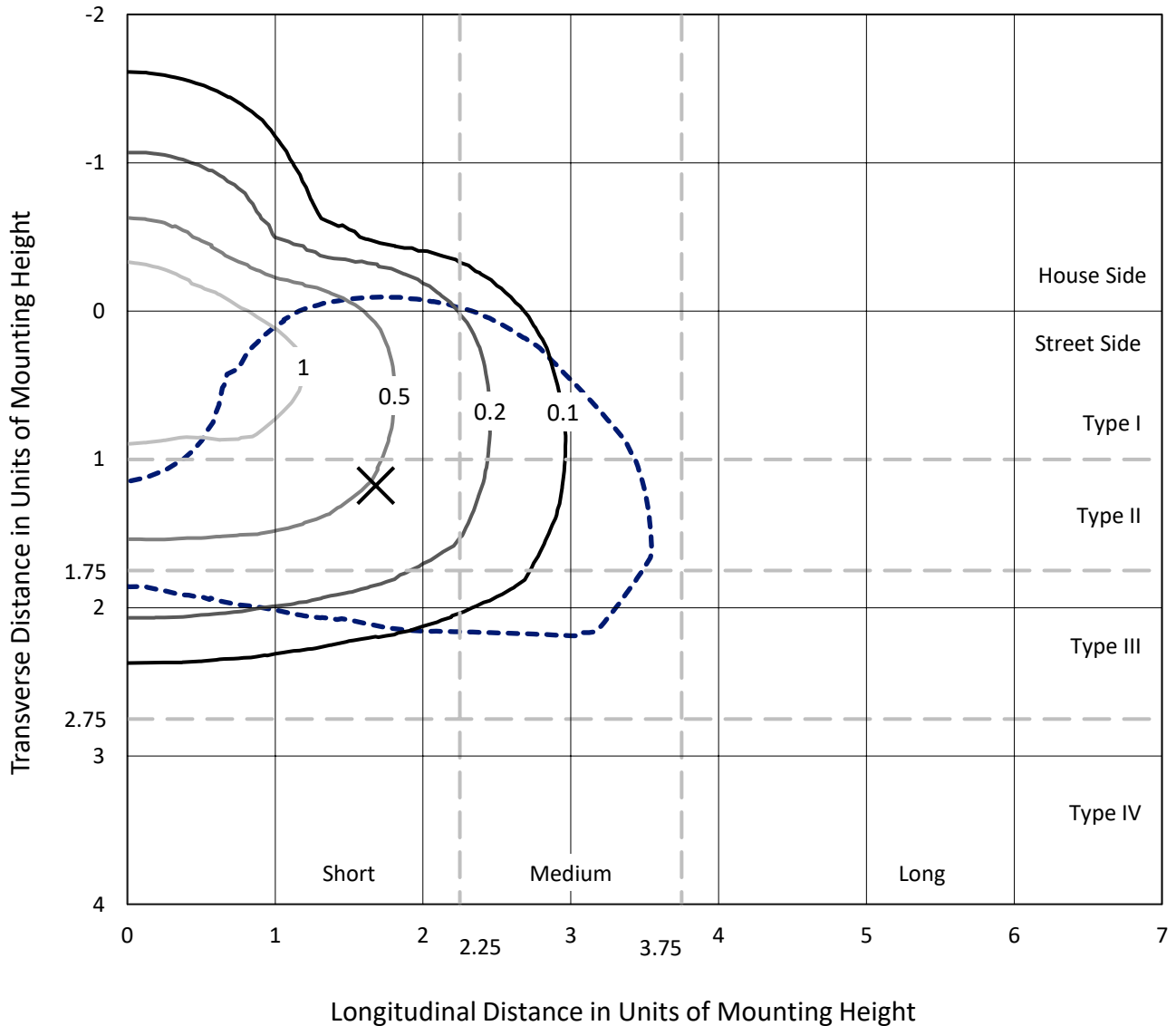
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450676  
 CATALOG NUMBER: GALN-SA1C-727-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

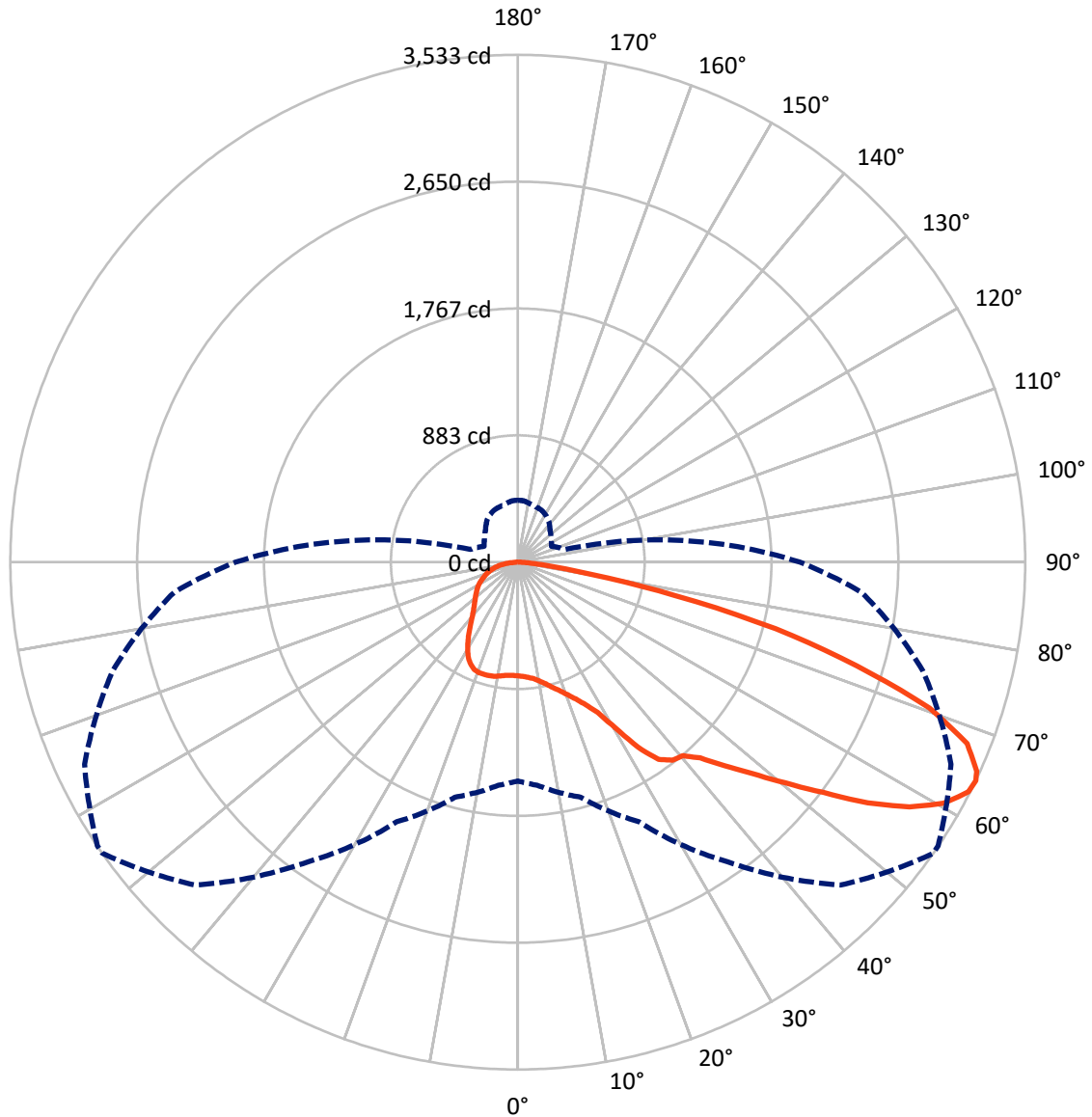
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P450676  
CATALOG NUMBER: GALN-SA1C-727-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: GALN-SA1C-727-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1433.2	0.0	1433.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4466.8	0.0	4466.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	5900.0	0.0	5900.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	1.3
10°-20°	243.0	4.1
20°-30°	432.5	7.3
30°-40°	665.5	11.3
40°-50°	943.4	16.0
50°-60°	1365.6	23.1
60°-70°	1413.2	24.0
70°-80°	661.8	11.2
80°-90°	98.0	1.7
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°	5900.0	100.0
0°-180°	5900.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450676

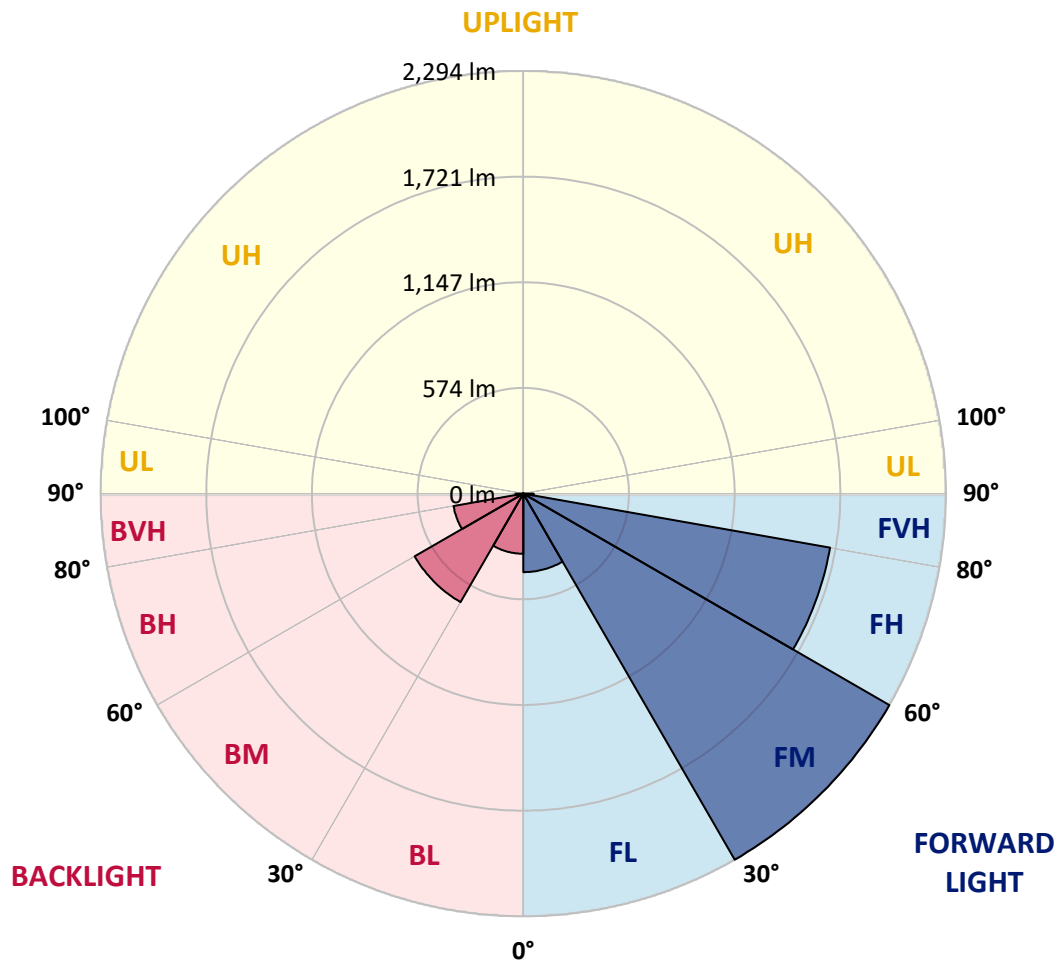
CATALOG NUMBER: GALN-SA1C-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.1	7.2			
FM (30°-60°)	2294.1	38.9			
FH (60°-80°)	1690.5	28.7			G1/1800
FVH (80°-90°)	56.1	1.0			G1/100
BL (0°-30°)	326.4	5.5	B1/500		
BM (30°-60°)	680.4	11.5	B1/1000		
BH (60°-80°)	384.5	6.5	B1/500		G1/500
BVH (80°-90°)	41.9	0.7			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 III Short





REPORT NUMBER: P450676

CATALOG NUMBER: GALN-SA1C-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	800.5	800.2	801.1	800.2	800.8	798.5	797.5	798.2	797.2	795.5	792.6
5°	810.3	810.0	810.3	809.0	809.7	808.4	806.1	806.7	805.1	801.5	797.2
7.5°	827.1	825.8	825.8	825.5	824.2	822.2	820.5	819.9	818.2	813.6	807.1
10°	848.8	848.8	849.2	846.5	848.2	844.6	842.9	842.6	837.0	831.1	821.9
12.5°	877.4	879.1	878.1	876.8	876.1	874.8	869.2	870.5	864.3	854.1	842.9
15°	913.0	915.6	913.9	913.3	911.6	906.7	904.4	903.4	895.2	880.4	865.6
17.5°	960.0	956.7	955.4	953.7	946.8	943.2	939.3	938.6	931.4	913.9	890.9
20°	1001.1	1005.7	1003.1	1001.4	994.5	987.6	984.7	983.7	977.4	958.3	921.5
22.5°	1050.1	1051.1	1052.1	1048.1	1044.8	1039.6	1034.3	1032.7	1030.4	1010.6	965.6
25°	1102.4	1106.3	1103.0	1099.1	1095.2	1094.8	1099.8	1099.1	1098.1	1079.0	1024.1
27.5°	1187.6	1191.2	1192.2	1187.9	1172.8	1174.1	1185.3	1188.9	1204.0	1172.4	1099.4
30°	1235.6	1239.2	1247.4	1263.5	1287.5	1308.6	1335.6	1343.8	1358.3	1298.7	1188.9
32.5°	1265.2	1266.5	1281.3	1311.2	1383.2	1461.8	1535.2	1538.1	1547.4	1463.8	1270.8
35°	1311.9	1312.9	1324.7	1357.6	1442.1	1573.0	1686.5	1690.1	1682.5	1515.1	1308.9
37.5°	1369.4	1372.1	1379.6	1406.9	1507.9	1666.1	1749.3	1746.7	1679.6	1555.9	1376.3
40°	1453.3	1453.3	1444.4	1481.3	1577.3	1719.4	1771.3	1766.7	1749.0	1674.0	1479.0
42.5°	1527.3	1526.0	1547.0	1572.0	1664.1	1801.6	1863.7	1871.3	1900.6	1822.3	1595.7
45°	1623.7	1629.6	1641.4	1686.8	1811.8	1942.0	2022.3	2029.5	2070.9	1996.9	1732.2
47.5°	1721.0	1723.0	1760.1	1820.7	1994.6	2132.4	2198.2	2210.0	2247.9	2201.2	1879.2
50°	1790.1	1808.8	1868.3	1963.7	2183.1	2364.6	2415.9	2430.1	2496.8	2423.5	2050.5
52.5°	1863.1	1881.5	1954.2	2099.5	2399.5	2602.1	2665.2	2674.7	2744.1	2648.4	2225.8
55°	1925.6	1942.7	2025.2	2219.9	2571.8	2844.4	2958.9	2947.7	2980.9	2821.7	2361.0
57.5°	1935.8	1949.6	2053.5	2296.9	2701.4	3052.3	3216.4	3223.0	3184.5	2951.3	2472.5
60°	1856.8	1885.1	2004.5	2288.6	2759.6	3197.0	3408.5	3413.1	3303.9	3017.8	2516.9
62.5°	1717.1	1714.1	1858.5	2156.4	2678.0	3229.9	3521.6	3516.7	3350.6	2985.9	2473.8
64°	1524.0	1559.5	1694.4	1994.0	2546.5	3179.2	3533.4	3530.8	3328.2	2919.4	2400.5
65°	1406.3	1404.3	1537.5	1861.1	2415.6	3102.9	3512.4	3508.8	3281.5	2859.9	2343.6
67.5°	1015.2	1019.8	1151.4	1436.2	1963.7	2804.6	3375.2	3361.8	3097.3	2662.6	2127.2
70°	615.0	617.6	720.9	952.8	1409.6	2267.3	3042.4	3043.1	2815.5	2367.9	1810.5
72.5°	323.9	330.8	372.3	541.0	856.1	1590.8	2468.2	2526.7	2417.2	2020.9	1430.3
75°	180.2	181.2	210.5	266.7	436.7	890.3	1855.2	1872.0	1913.7	1626.6	1057.7
77.5°	137.5	139.4	148.7	172.3	237.8	412.7	1122.8	1207.0	1348.7	1146.8	603.5
80°	111.5	113.5	121.4	135.5	158.2	195.7	521.6	567.0	721.9	509.1	235.5
82.5°	86.8	85.5	95.7	104.9	115.1	115.8	214.1	236.8	294.0	219.0	102.0
85°	64.5	64.5	72.7	70.7	74.3	67.7	94.4	104.3	117.7	93.1	47.4
87.5°	25.7	28.3	47.7	42.8	33.2	26.6	34.9	36.8	40.8	36.5	19.7
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°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	792.9	793.9	791.6	790.0	789.3	788.3	787.3	787.7	789.0	790.3	790.0
5°	796.9	797.2	793.2	791.3	790.0	788.6	788.6	789.6	792.3	794.2	794.2
7.5°	806.7	806.7	801.1	797.5	795.5	793.2	792.6	792.9	794.9	797.5	797.9
10°	822.2	820.9	813.6	808.0	804.4	798.8	793.9	791.3	792.3	793.9	793.9
12.5°	840.9	837.3	828.1	820.5	811.7	801.1	790.9	785.7	785.4	787.0	786.3
15°	861.0	857.0	844.2	830.4	815.0	799.5	787.3	779.8	773.8	772.2	775.8
17.5°	884.3	876.1	858.4	839.3	816.3	796.2	777.1	761.7	751.2	748.2	749.2
20°	912.6	901.8	877.8	847.8	815.3	784.4	754.8	734.0	716.9	711.7	712.3
22.5°	951.8	933.0	897.8	852.1	807.1	762.0	720.9	693.9	673.2	665.0	669.9
25°	996.2	975.8	916.9	851.1	785.7	726.2	680.8	645.6	626.8	614.7	617.3
27.5°	1057.3	1021.2	937.3	842.2	755.1	682.4	629.8	596.6	579.5	573.2	576.2
30°	1135.6	1080.0	959.3	818.2	706.8	627.2	578.5	556.8	546.6	538.7	541.3
32.5°	1192.2	1121.5	964.3	777.8	654.5	576.8	543.6	527.5	516.3	508.8	510.4
35°	1232.6	1156.7	962.0	728.1	599.9	535.4	516.0	502.8	484.8	468.3	465.4
37.5°	1286.9	1200.7	945.2	673.9	545.9	507.5	493.6	469.3	443.3	421.3	420.3
40°	1370.1	1252.4	909.3	610.1	499.9	486.7	470.0	438.4	410.4	392.7	391.4
42.5°	1455.9	1300.0	860.7	543.0	462.1	465.0	444.6	413.4	396.3	384.8	383.5
45°	1560.8	1351.7	808.0	484.8	434.1	444.6	422.6	404.5	394.3	386.8	384.8
47.5°	1674.3	1404.6	748.8	432.5	410.4	425.9	413.4	405.2	399.6	394.3	392.0
50°	1796.6	1463.8	693.3	390.4	389.1	406.5	412.4	409.4	406.2	404.5	402.5
52.5°	1930.8	1524.3	646.6	360.8	370.3	392.7	412.7	415.0	415.0	414.1	412.7
55°	2021.6	1566.4	599.2	336.8	351.2	381.5	412.1	421.0	424.2	422.9	421.6
57.5°	2088.7	1589.5	539.7	316.0	335.1	370.6	408.5	421.6	424.9	426.6	425.9
60°	2102.5	1568.1	461.7	294.3	317.7	354.9	395.3	411.8	416.0	426.2	427.2
62.5°	2040.3	1502.3	384.1	273.0	296.3	330.8	377.5	400.6	409.1	424.9	426.6
64°	1964.0	1428.6	341.0	259.5	282.5	317.4	368.7	397.6	408.8	429.8	431.2
65°	1908.1	1375.0	314.1	250.9	273.6	308.5	363.7	398.6	411.8	437.4	439.4
67.5°	1702.3	1190.5	259.8	230.9	252.6	293.4	364.7	406.8	411.1	440.4	440.0
70°	1408.6	947.8	217.7	212.5	232.2	281.2	360.8	393.7	394.0	413.4	408.8
72.5°	1054.7	700.5	188.8	193.4	209.5	252.2	340.7	375.9	370.3	372.9	368.3
75°	724.5	463.4	162.5	173.0	185.8	223.0	312.4	341.4	332.5	329.2	325.9
77.5°	386.8	256.2	135.2	152.9	161.5	192.7	272.6	300.6	291.4	278.6	274.3
80°	156.5	120.7	108.9	126.6	131.5	155.2	226.9	244.4	237.4	215.1	207.8
82.5°	78.6	72.4	85.5	99.6	100.0	110.8	168.7	185.2	169.7	142.4	136.2
85°	41.1	42.4	58.9	70.1	61.8	59.9	101.3	112.1	102.9	89.5	80.6
87.5°	14.8	17.1	30.9	30.6	21.7	11.5	22.4	10.9	5.9	3.6	4.6
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)