

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: P450665

Luminaire Tested: **GALN-SA1C-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5823 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

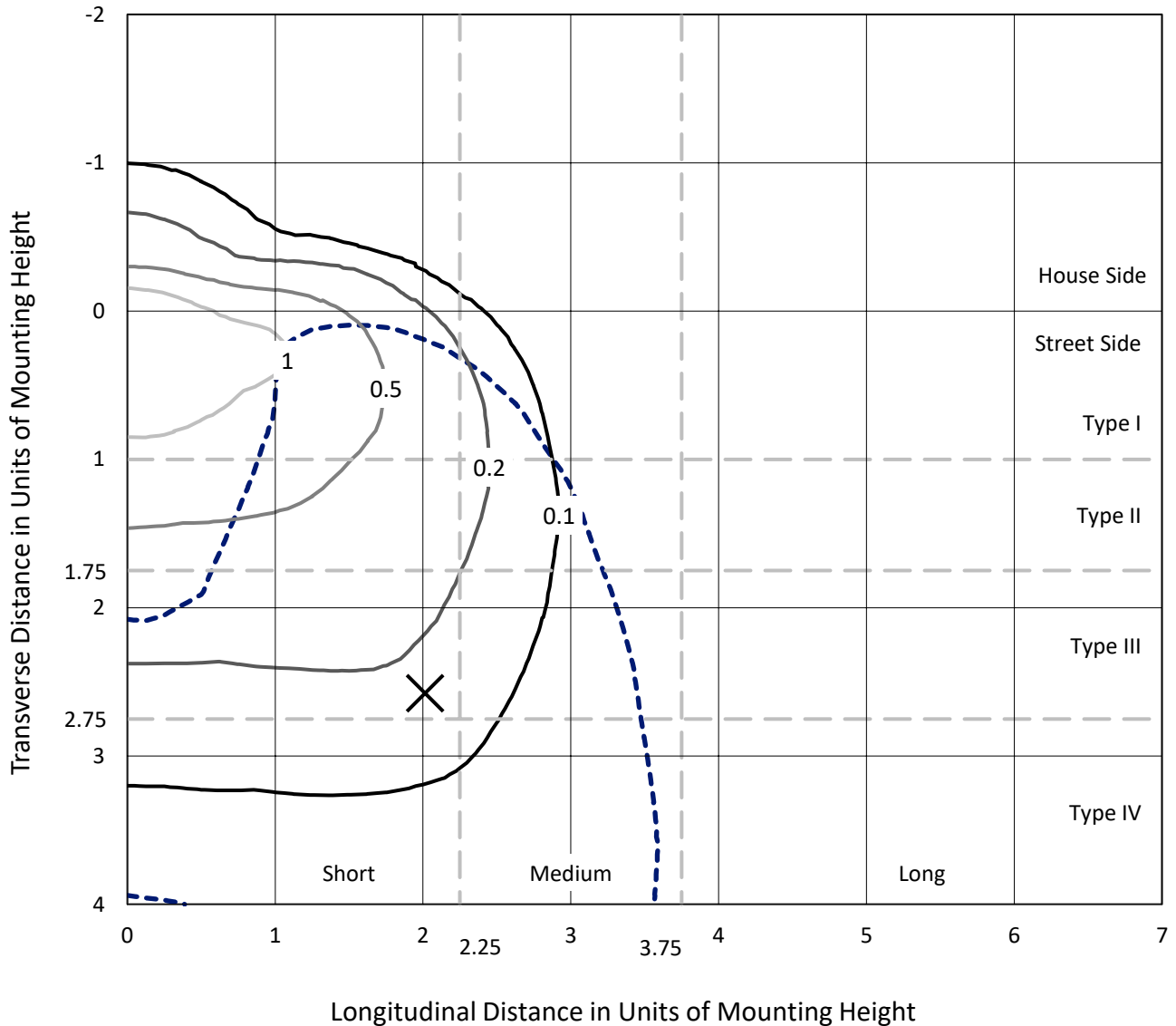
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450665
 CATALOG NUMBER: GALN-SA1C-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

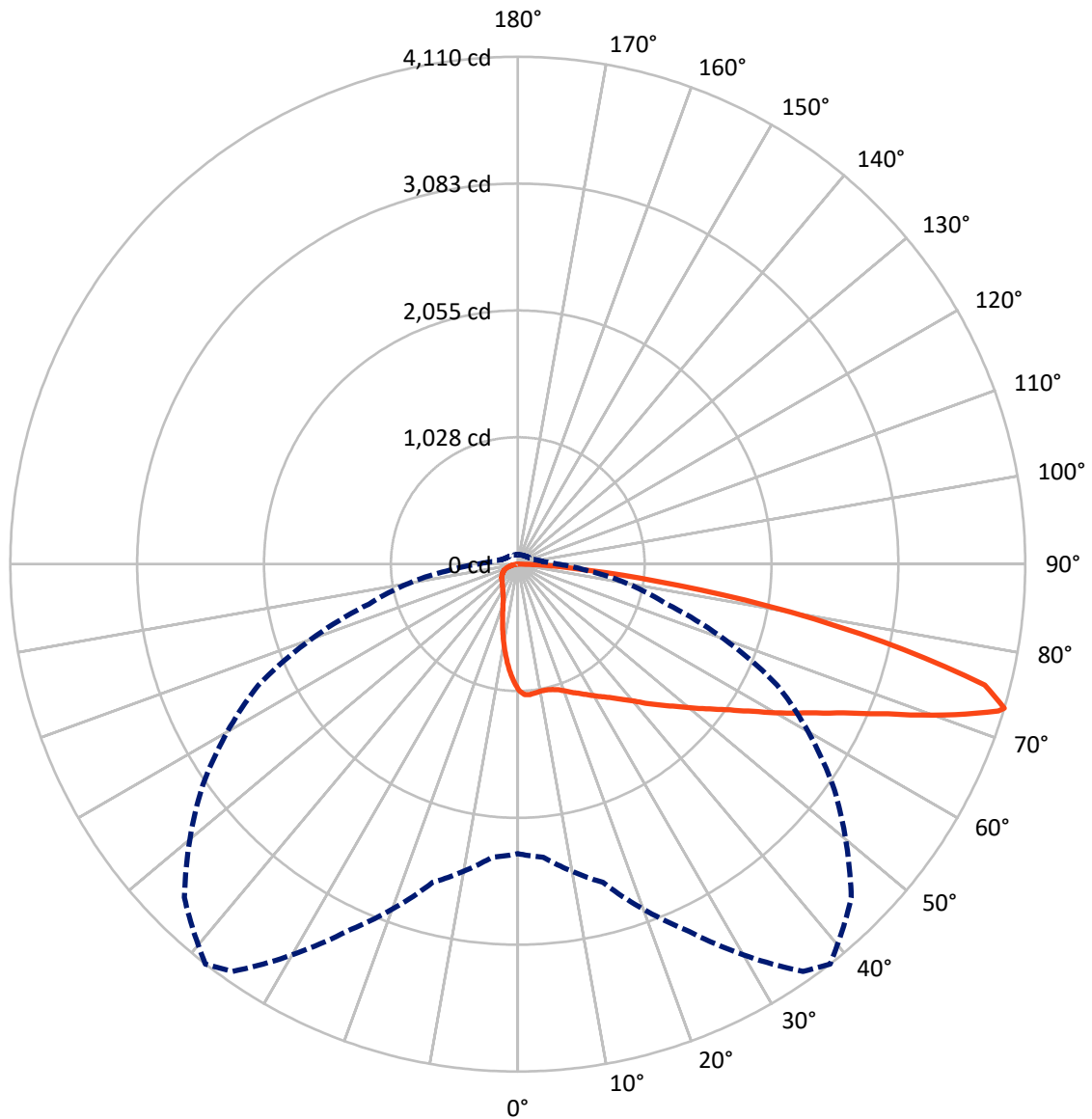
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P450665
CATALOG NUMBER: GALN-SA1C-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P450665

CATALOG NUMBER: GALN-SA1C-727-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	782.8	0.0	782.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5040.2	0.0	5040.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5823.0	0.0	5823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.5
10°-20°	229.0	3.9
20°-30°	356.6	6.1
30°-40°	523.0	9.0
40°-50°	775.8	13.3
50°-60°	1099.2	18.9
60°-70°	1394.4	23.9
70°-80°	1160.7	19.9
80°-90°	195.0	3.3
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°	5823.0	100.0
0°-180°	5823.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450665

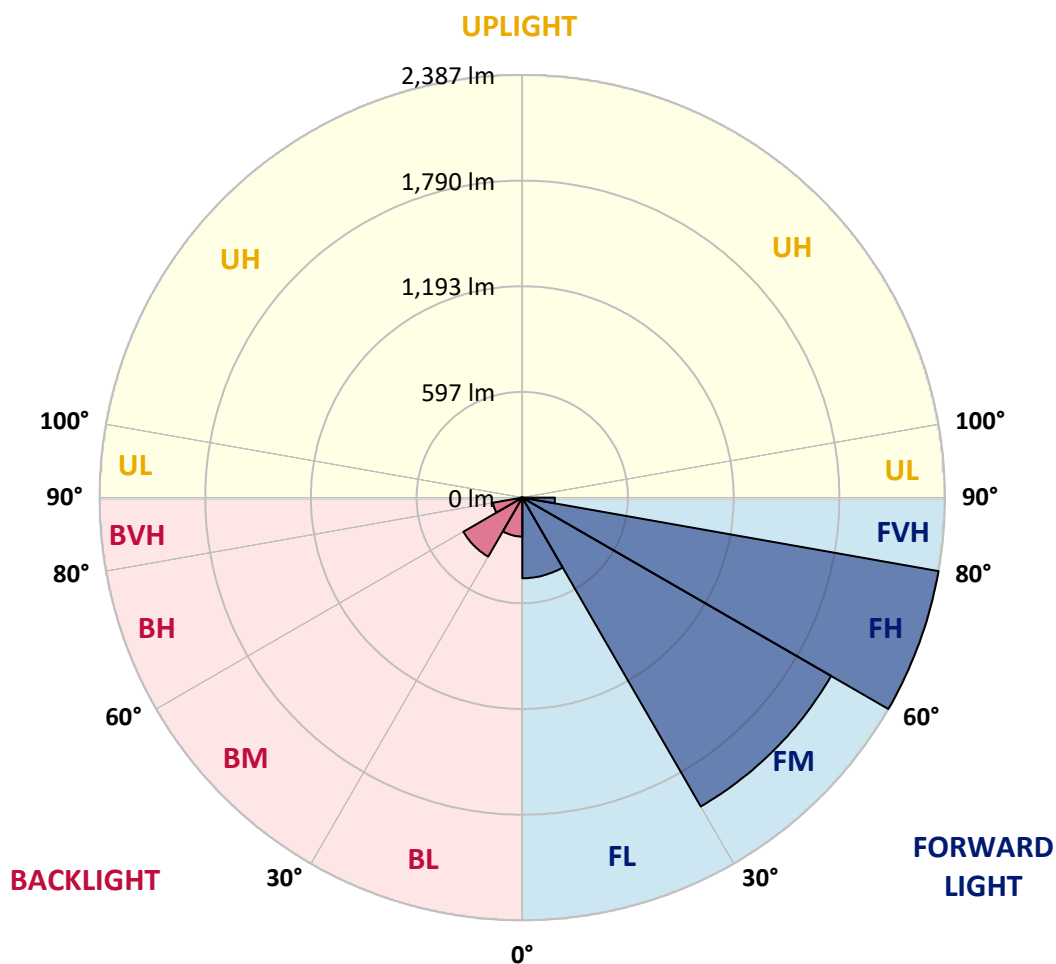
CATALOG NUMBER: GALN-SA1C-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.2	7.8			
FM (30°-60°)	2013.7	34.6			
FH (60°-80°)	2386.8	41.0			G2/5000
FVH (80°-90°)	184.4	3.2			G2/225
BL (0°-30°)	219.7	3.8	B1/500		
BM (30°-60°)	384.3	6.6	B1/1000		
BH (60°-80°)	168.3	2.9	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			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 IV Short





REPORT NUMBER: P450665

CATALOG NUMBER: GALN-SA1C-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1064.1	1069.4	1066.7	1063.1	1060.8	1058.5	1055.2	1045.7	1038.1	1029.9	1017.1
5°	1072.0	1075.3	1073.0	1068.4	1063.1	1060.8	1054.6	1042.1	1029.9	1016.1	997.0
7.5°	1067.4	1068.7	1066.1	1060.5	1055.9	1051.6	1044.4	1030.6	1015.8	999.0	974.0
10°	1051.0	1055.9	1055.9	1051.3	1046.7	1044.4	1037.1	1024.0	1010.5	991.4	961.8
12.5°	1037.5	1042.7	1047.0	1045.7	1045.4	1045.4	1039.8	1029.9	1014.1	996.0	960.9
15°	1028.3	1034.5	1043.7	1049.0	1052.3	1053.3	1051.0	1042.4	1026.3	1005.2	964.8
17.5°	1026.3	1033.9	1050.6	1062.1	1070.7	1070.4	1069.7	1057.9	1040.1	1018.4	969.7
20°	1035.2	1045.0	1068.4	1086.5	1099.0	1096.7	1093.0	1077.6	1056.9	1032.5	974.3
22.5°	1061.8	1072.0	1097.6	1117.4	1129.5	1129.5	1118.7	1098.3	1076.3	1049.0	980.6
25°	1099.9	1111.1	1138.4	1158.5	1164.1	1159.8	1148.9	1124.3	1099.0	1072.7	993.7
27.5°	1146.6	1160.1	1185.4	1202.2	1200.6	1197.3	1186.1	1154.5	1129.2	1105.2	1016.1
30°	1204.8	1214.7	1241.0	1245.0	1239.0	1238.4	1222.6	1191.0	1167.4	1148.9	1048.0
32.5°	1259.8	1268.6	1289.7	1291.3	1280.8	1282.1	1267.3	1238.4	1224.9	1218.3	1101.6
35°	1318.0	1322.6	1340.7	1338.7	1331.8	1330.8	1324.9	1297.2	1301.5	1313.4	1177.6
37.5°	1366.6	1375.8	1386.0	1387.7	1387.4	1390.6	1394.6	1381.4	1406.1	1443.3	1277.2
40°	1411.4	1419.2	1434.4	1439.6	1452.5	1459.0	1472.5	1472.8	1529.7	1590.9	1399.8
42.5°	1441.6	1455.1	1483.4	1492.9	1524.1	1543.9	1563.9	1585.3	1667.8	1746.4	1544.5
45°	1467.9	1485.7	1532.7	1562.3	1604.7	1628.7	1671.1	1715.9	1834.6	1937.5	1691.5
47.5°	1507.7	1523.5	1577.4	1629.7	1693.8	1721.4	1784.9	1851.7	2006.9	2119.7	1832.3
50°	1562.9	1572.5	1627.4	1712.6	1794.4	1830.0	1913.8	2010.2	2191.0	2299.5	1955.9
52.5°	1633.6	1637.6	1681.3	1794.8	1902.6	1946.7	2057.8	2170.3	2352.1	2455.7	2053.9
55°	1717.2	1710.6	1744.8	1881.9	2026.3	2083.8	2203.2	2332.4	2533.3	2582.0	2125.3
57.5°	1799.7	1789.5	1816.8	1987.8	2178.9	2248.2	2387.3	2499.5	2695.1	2700.1	2175.2
60°	1887.2	1879.6	1912.2	2112.1	2366.0	2448.2	2576.7	2672.8	2851.6	2782.3	2183.1
62.5°	1976.9	1964.8	2011.1	2251.9	2576.7	2651.4	2776.0	2856.9	3005.2	2812.8	2107.2
65°	2064.1	2058.5	2130.2	2417.9	2816.8	2901.6	3022.6	3077.6	3128.2	2766.8	1918.7
67.5°	2156.8	2168.0	2282.4	2639.6	3129.8	3236.4	3366.9	3315.3	3163.4	2548.8	1615.9
70°	2298.2	2305.5	2482.4	2929.9	3533.3	3661.9	3725.0	3399.8	2993.7	2134.8	1214.7
72.5°	2359.1	2391.0	2660.9	3234.7	3991.7	4070.3	3845.4	3211.4	2493.9	1450.2	638.3
73°	2345.6	2383.7	2669.1	3281.1	4027.6	4110.1	3819.7	3114.4	2318.3	1248.9	547.2
75°	2177.5	2224.6	2562.3	3242.3	3957.8	3908.5	3407.4	2654.3	1566.6	567.9	249.3
77.5°	1718.2	1731.6	2030.2	2618.2	3116.7	3025.3	2550.1	1659.0	639.9	211.1	141.4
80°	861.9	911.5	1144.3	1499.8	2084.1	2054.2	1609.6	784.6	266.7	124.0	93.7
82.5°	414.7	449.8	557.4	731.3	1151.6	1124.3	797.1	428.8	169.3	72.3	55.2
85°	267.0	293.3	354.8	348.9	473.5	452.1	358.1	324.6	100.3	37.8	38.5
87.5°	176.3	193.0	231.5	185.1	172.3	155.9	158.2	182.8	19.7	14.5	5.3
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: P450665
 CATALOG NUMBER: GALN-SA1C-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1011.8	1007.5	993.4	979.6	966.4	953.9	945.7	934.9	927.6	929.6	932.6
5°	986.5	977.0	952.0	927.6	904.6	877.3	855.3	837.5	824.1	819.1	818.1
7.5°	959.9	943.8	907.9	866.1	827.0	793.1	754.0	734.6	711.9	704.0	701.4
10°	943.8	922.1	871.7	813.5	754.7	698.4	656.0	621.5	590.3	584.3	581.4
12.5°	939.1	910.5	842.8	767.8	689.6	620.5	557.7	512.3	482.1	475.2	465.0
15°	936.5	901.0	815.8	721.8	622.5	538.3	472.2	419.3	391.6	373.2	373.6
17.5°	934.2	890.2	785.6	671.5	564.6	467.6	394.6	346.9	321.6	311.7	310.7
20°	930.9	877.3	750.7	618.5	498.5	403.2	337.1	301.5	284.4	276.2	275.9
22.5°	929.6	864.8	716.5	564.6	440.0	353.5	298.9	273.9	263.1	257.5	257.5
25°	932.9	856.0	680.7	513.3	388.0	311.1	272.6	255.5	249.3	246.3	245.3
27.5°	943.1	852.0	645.2	462.0	340.3	282.1	254.8	243.0	238.4	236.1	236.4
30°	962.5	851.7	610.3	411.4	304.8	260.1	240.7	232.5	228.9	227.6	227.2
32.5°	993.7	858.9	576.1	369.6	274.9	241.7	227.6	221.6	220.0	219.0	218.7
35°	1046.7	879.3	542.2	331.5	251.9	225.3	215.1	212.1	209.8	210.8	211.1
37.5°	1118.0	914.5	510.0	301.5	234.5	213.1	204.5	201.9	200.6	201.6	202.6
40°	1213.7	965.1	483.1	277.5	222.0	202.9	195.3	193.0	191.7	193.4	193.7
42.5°	1319.3	1023.7	460.7	258.8	211.8	194.3	187.1	184.5	183.5	184.5	184.8
45°	1427.8	1091.7	449.2	245.3	203.2	188.1	180.5	177.6	175.3	174.6	175.6
47.5°	1534.7	1150.9	448.9	237.1	196.3	182.5	174.3	171.0	168.0	166.4	166.1
50°	1621.8	1197.9	456.8	233.5	190.4	176.3	168.0	164.7	160.8	157.5	158.2
52.5°	1687.6	1228.5	460.4	231.8	187.1	169.7	161.5	158.5	153.9	149.6	149.6
55°	1730.0	1235.8	451.5	230.2	184.5	162.8	153.9	151.3	146.7	142.4	142.4
57.5°	1744.5	1213.4	419.6	226.2	181.8	156.9	146.3	144.0	140.4	136.1	135.5
60°	1710.9	1137.8	363.7	214.4	176.6	150.6	138.1	137.1	135.8	132.2	131.9
62.5°	1581.7	977.3	302.9	198.9	167.7	144.0	130.5	132.2	133.2	131.2	130.9
65°	1366.6	793.5	258.8	177.6	155.9	134.8	122.3	126.6	129.2	129.2	128.6
67.5°	1108.5	609.3	218.0	159.2	141.1	122.3	113.1	116.4	118.4	117.7	119.4
70°	787.9	412.7	177.6	138.1	122.3	108.2	101.3	101.3	100.0	99.3	99.3
72.5°	382.1	235.8	144.0	115.4	104.2	92.4	86.8	84.5	81.9	81.6	79.9
73°	319.3	211.4	137.5	111.1	100.0	90.1	83.9	80.2	78.6	77.3	76.9
75°	194.3	160.5	114.8	93.7	85.2	77.6	72.0	68.7	67.1	66.1	65.8
77.5°	127.9	119.7	89.1	71.7	65.1	60.5	58.2	54.9	53.9	52.6	52.6
80°	95.4	91.4	63.8	50.6	46.7	42.7	42.1	41.4	38.8	37.2	36.5
82.5°	61.5	65.1	43.4	33.9	29.6	26.3	26.6	27.6	25.0	22.7	22.0
85°	43.7	47.0	26.3	15.5	12.5	10.9	12.2	10.9	11.2	8.9	7.2
87.5°	7.2	12.5	4.6	2.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0
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)