

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: P451600

Luminaire Tested: **GALN-SA2C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11891 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

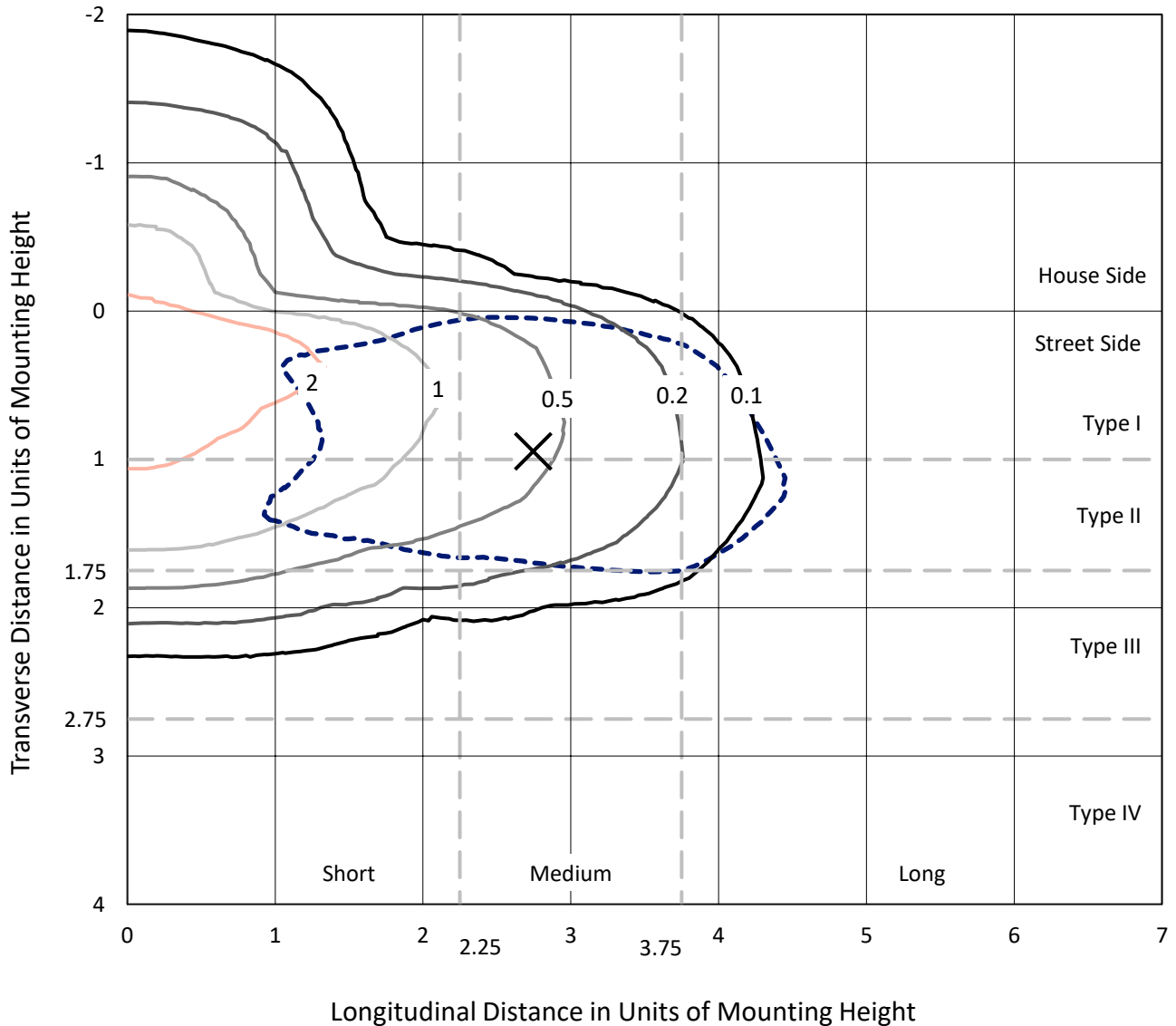
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451600
 CATALOG NUMBER: GALN-SA2C-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

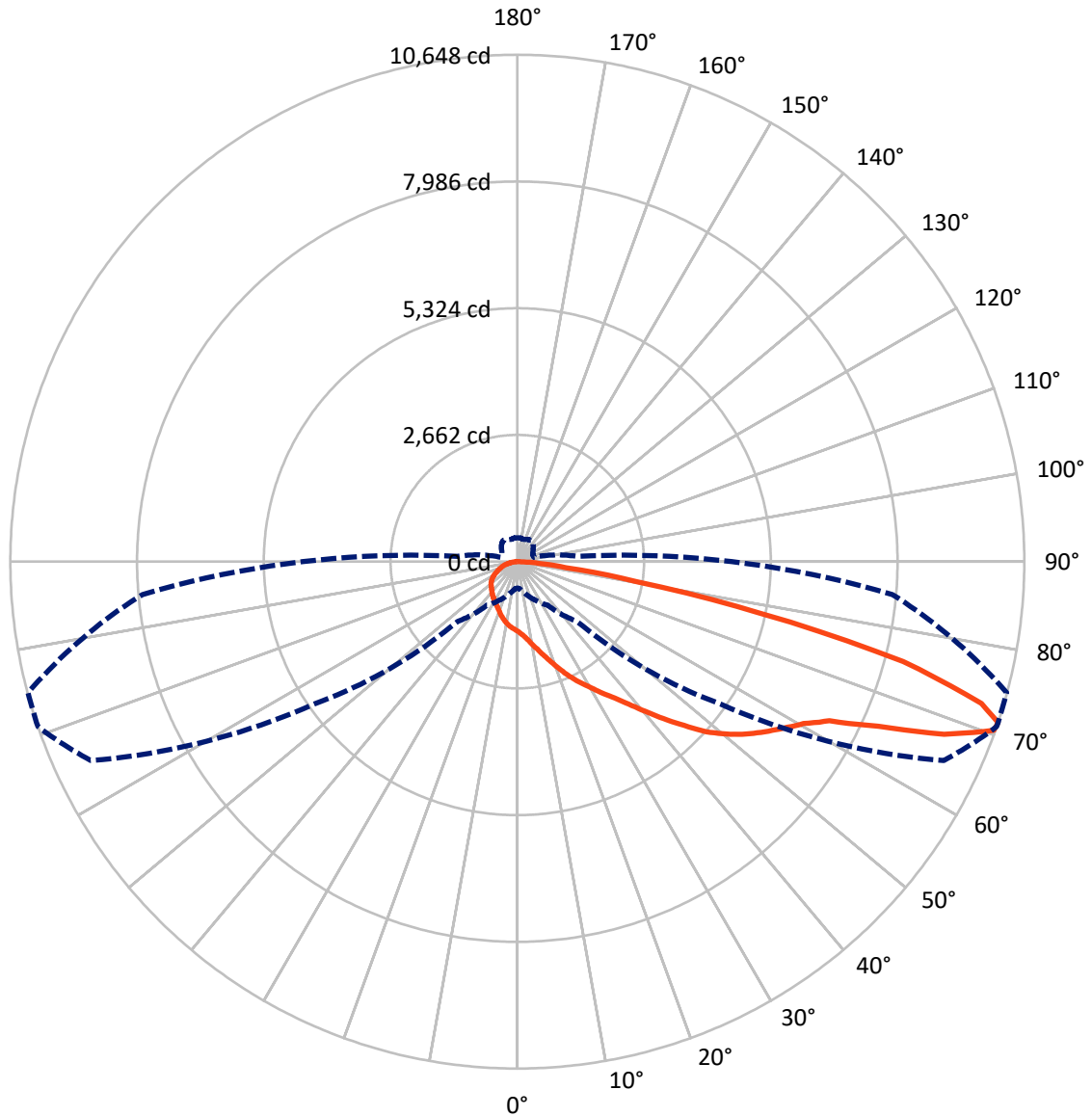
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P451600
CATALOG NUMBER: GALN-SA2C-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P451600

CATALOG NUMBER: GALN-SA2C-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.6	0.0	2138.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9752.4	0.0	9752.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	11891.0	0.0	11891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.2
10°-20°	476.1	4.0
20°-30°	832.0	7.0
30°-40°	1237.5	10.4
40°-50°	1823.2	15.3
50°-60°	2552.6	21.5
60°-70°	2854.9	24.0
70°-80°	1743.9	14.7
80°-90°	224.3	1.9
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°	11891.0	100.0
0°-180°	11891.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451600

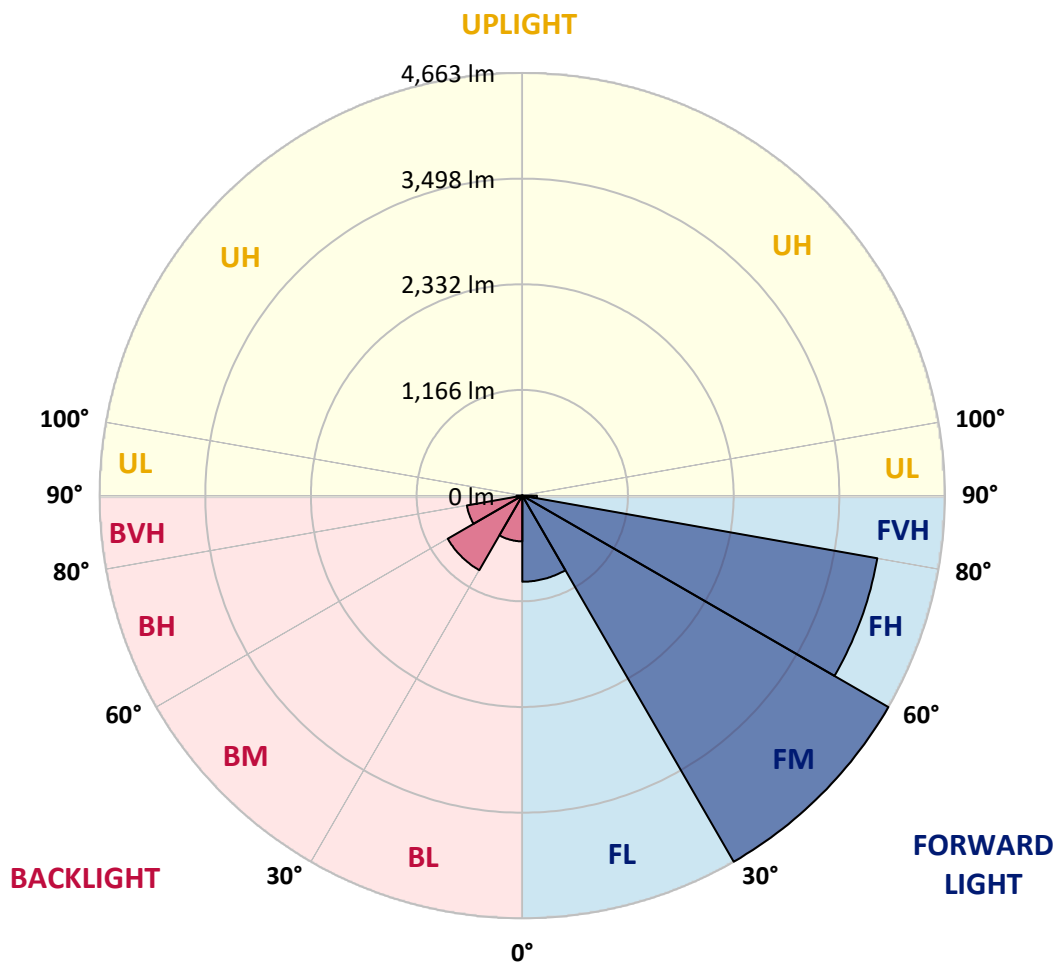
CATALOG NUMBER: GALN-SA2C-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.1	8.0			
FM	(30°-60°)	4663.4	39.2			
FH	(60°-80°)	3977.5	33.4			G2/5000
FVH	(80°-90°)	161.4	1.4			G2/225
BL	(0°-30°)	504.5	4.2	B2/1000		
BM	(30°-60°)	949.8	8.0	B1/1000		
BH	(60°-80°)	621.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	62.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P451600

CATALOG NUMBER: GALN-SA2C-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1620.2	1612.3	1613.0	1601.9	1587.5	1571.8	1549.6	1530.0	1514.3	1505.1	1478.3
5°	1795.3	1787.5	1777.7	1753.5	1743.0	1704.5	1655.5	1611.0	1577.0	1558.1	1504.5
7.5°	1937.1	1935.2	1932.6	1918.8	1892.0	1838.4	1796.6	1719.5	1669.2	1633.2	1541.7
10°	2024.7	2028.0	2029.9	2032.6	2021.4	1993.3	1935.8	1838.4	1774.4	1728.6	1590.1
12.5°	2069.2	2072.4	2083.5	2107.7	2122.7	2119.5	2072.4	1977.0	1888.8	1828.6	1641.7
15°	2096.6	2101.8	2121.4	2153.5	2203.8	2235.8	2212.9	2124.7	2028.0	1956.7	1703.2
17.5°	2126.7	2132.5	2154.1	2199.9	2265.9	2335.1	2360.0	2284.2	2178.9	2094.0	1771.8
20°	2143.7	2151.5	2182.2	2242.3	2319.5	2420.1	2502.5	2462.6	2347.6	2253.5	1850.9
22.5°	2171.1	2177.6	2203.8	2267.8	2360.0	2486.1	2644.9	2636.4	2535.1	2413.6	1937.8
25°	2245.6	2256.1	2269.1	2307.7	2396.6	2553.4	2763.2	2822.0	2716.8	2580.9	2017.5
27.5°	2386.1	2394.6	2394.0	2399.2	2449.5	2611.6	2865.8	3005.7	2897.2	2750.2	2094.6
30°	2546.2	2549.5	2552.1	2540.4	2551.5	2671.1	2959.9	3187.4	3078.9	2924.0	2162.0
32.5°	2741.0	2747.5	2725.3	2695.3	2686.1	2759.3	3037.7	3369.1	3293.9	3100.5	2228.6
35°	2971.1	2988.0	2943.0	2890.0	2852.8	2886.1	3142.3	3554.7	3514.2	3325.9	2316.8
37.5°	3233.8	3254.7	3212.9	3109.0	3056.0	3065.2	3278.9	3784.1	3792.6	3582.8	2448.2
40°	3448.8	3476.3	3477.6	3330.5	3250.1	3260.6	3452.1	4031.1	4128.5	3900.4	2603.1
42.5°	3590.6	3617.4	3645.5	3559.3	3474.9	3534.4	3654.0	4299.1	4506.3	4286.0	2819.4
45°	3746.2	3770.4	3786.0	3746.8	3699.8	3854.0	3897.8	4584.0	4908.8	4716.7	3056.0
47.5°	3926.6	3953.3	3968.4	3931.1	3913.5	4134.4	4160.5	4850.0	5338.9	5135.0	3317.4
50°	4167.1	4187.3	4179.5	4155.9	4152.0	4349.4	4412.8	5099.0	5693.8	5585.3	3588.7
52.5°	4466.4	4490.6	4499.1	4465.7	4450.7	4503.0	4616.1	5325.8	6016.6	5972.2	3878.2
55°	4647.4	4686.0	4815.4	4867.7	4903.6	4701.7	4835.0	5576.1	6306.1	6380.0	4189.3
57.5°	4415.4	4465.1	4754.6	5016.0	5353.9	5198.4	5145.4	5837.5	6595.7	6775.4	4561.8
60°	3849.4	3860.5	4233.7	4715.4	5395.1	5836.9	5793.1	6253.2	6909.4	7174.1	5052.6
62.5°	2670.4	2693.9	3135.1	3903.7	4886.6	6066.9	6895.0	6970.8	7359.0	7770.8	5772.2
65°	1377.0	1346.3	1748.3	2453.4	3684.1	5520.6	7787.7	8290.3	8334.1	8704.0	6785.2
67.5°	847.7	861.4	1049.6	1432.6	2178.3	4012.2	7694.3	9902.6	9671.9	9849.7	7725.7
70°	636.6	653.6	783.0	980.3	1328.0	2294.0	6187.8	10293.5	10615.7	10569.9	8011.9
71°	553.6	571.2	705.8	892.1	1115.6	1770.5	5213.4	9884.3	10648.4	10640.5	7904.1
72.5°	471.9	483.0	588.2	755.5	940.5	1241.1	3916.7	8864.8	10194.1	10454.9	7519.1
75°	370.6	379.1	426.1	576.4	740.5	762.0	2101.8	6646.0	8372.7	8869.4	6259.7
77.5°	301.9	307.8	332.0	428.1	571.2	539.8	1102.5	4325.9	5245.4	5745.4	3687.4
80°	239.9	246.4	260.8	290.2	428.1	384.9	526.1	2192.0	2533.8	2528.6	1471.8
82.5°	186.3	188.2	205.2	213.1	292.8	273.2	284.9	928.0	1028.0	1062.0	531.3
85°	117.6	123.5	181.7	163.4	175.2	160.1	140.5	368.6	454.2	447.7	212.4
87.5°	35.9	37.9	61.4	69.3	77.8	69.9	51.6	108.5	132.7	143.8	52.9
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: P451600
 CATALOG NUMBER: GALN-SA2C-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1467.9	1460.7	1435.2	1414.3	1394.7	1373.1	1354.8	1349.6	1345.0	1343.1	1342.4
5°	1481.6	1460.0	1409.7	1368.5	1335.9	1305.8	1286.8	1278.4	1269.9	1269.9	1272.5
7.5°	1501.2	1462.0	1384.2	1322.8	1281.6	1253.5	1239.8	1238.5	1240.4	1242.4	1243.1
10°	1522.8	1460.7	1347.0	1270.5	1233.9	1220.8	1221.5	1232.6	1243.1	1250.9	1252.2
12.5°	1543.7	1452.9	1303.2	1221.5	1198.0	1200.6	1218.9	1243.7	1264.0	1275.1	1275.7
15°	1567.2	1440.4	1250.2	1175.1	1167.2	1187.5	1221.5	1259.4	1290.1	1308.4	1310.4
17.5°	1586.8	1419.5	1194.7	1130.0	1139.8	1177.1	1224.1	1273.1	1310.4	1333.2	1337.2
20°	1609.0	1392.7	1137.2	1086.9	1115.0	1165.3	1218.9	1271.8	1310.4	1332.6	1337.8
22.5°	1626.7	1354.8	1082.3	1051.6	1092.7	1150.9	1201.2	1243.7	1275.1	1286.8	1294.7
25°	1633.9	1307.1	1030.7	1022.8	1075.1	1127.4	1161.4	1185.5	1195.3	1194.0	1197.3
27.5°	1630.0	1252.2	986.2	999.9	1052.9	1090.8	1107.8	1105.8	1088.2	1071.8	1079.7
30°	1613.6	1186.9	949.0	976.4	1024.1	1045.0	1042.4	1016.9	983.6	952.9	954.8
32.5°	1584.2	1116.3	914.3	949.6	983.6	992.7	975.1	941.8	894.1	854.2	848.3
35°	1559.4	1049.0	883.6	918.9	943.1	938.5	921.5	878.4	835.2	799.9	794.1
37.5°	1555.5	991.4	854.2	884.3	898.0	891.4	870.5	833.9	818.2	791.5	788.2
40°	1576.4	950.9	824.1	847.7	854.2	849.0	826.1	805.2	819.6	813.0	813.0
42.5°	1633.2	929.4	797.3	811.1	816.3	820.2	803.9	786.2	803.9	773.8	764.0
45°	1723.4	930.0	773.2	775.1	790.8	804.5	793.4	767.3	758.1	698.0	686.2
47.5°	1856.1	952.2	753.5	741.1	769.2	792.1	776.4	738.5	698.0	658.1	650.9
50°	2011.0	992.1	735.9	705.8	740.5	776.4	764.7	720.2	678.4	654.2	649.6
52.5°	2182.9	1042.4	714.3	666.6	705.2	769.2	767.3	717.6	660.1	643.8	639.8
55°	2395.3	1092.1	687.5	620.9	673.8	763.4	760.1	696.0	656.2	644.4	643.1
57.5°	2642.3	1164.0	649.0	574.5	637.9	739.2	732.0	683.0	643.1	634.6	633.9
60°	3040.3	1275.7	594.1	532.0	601.3	696.7	705.8	660.7	622.2	620.2	619.6
62.5°	3563.8	1432.6	537.2	488.2	558.8	641.8	667.9	630.7	600.0	609.8	611.1
65°	4286.7	1564.6	478.4	451.0	511.7	588.9	632.0	602.6	575.1	594.1	594.1
67.5°	4757.9	1567.2	424.8	412.4	464.0	544.4	594.1	569.2	543.1	575.1	576.4
70°	4659.8	1373.1	380.4	371.9	417.6	496.7	552.3	532.6	502.6	531.3	520.9
71°	4501.7	1265.3	362.7	356.2	399.3	473.8	532.6	516.3	486.2	505.2	499.3
72.5°	4249.4	1098.6	334.0	335.3	371.9	445.1	505.2	488.2	458.1	468.6	466.6
75°	3591.9	959.4	285.6	291.5	319.6	396.1	450.3	437.2	406.5	406.5	404.5
77.5°	2245.6	670.5	237.2	240.5	271.2	339.2	386.9	375.8	346.4	336.6	334.0
80°	837.9	346.4	185.6	189.5	208.5	267.3	320.2	309.8	279.7	268.6	258.2
82.5°	317.0	173.8	136.6	133.3	153.6	203.9	251.0	238.5	215.0	188.2	180.4
85°	119.6	86.3	83.7	81.0	90.2	120.9	155.5	152.9	128.1	109.1	107.2
87.5°	31.4	28.1	32.7	24.2	25.5	22.9	23.5	9.8	4.6	2.0	1.3
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)