

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: P452298

Luminaire Tested: **GALN-SA3B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14478 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

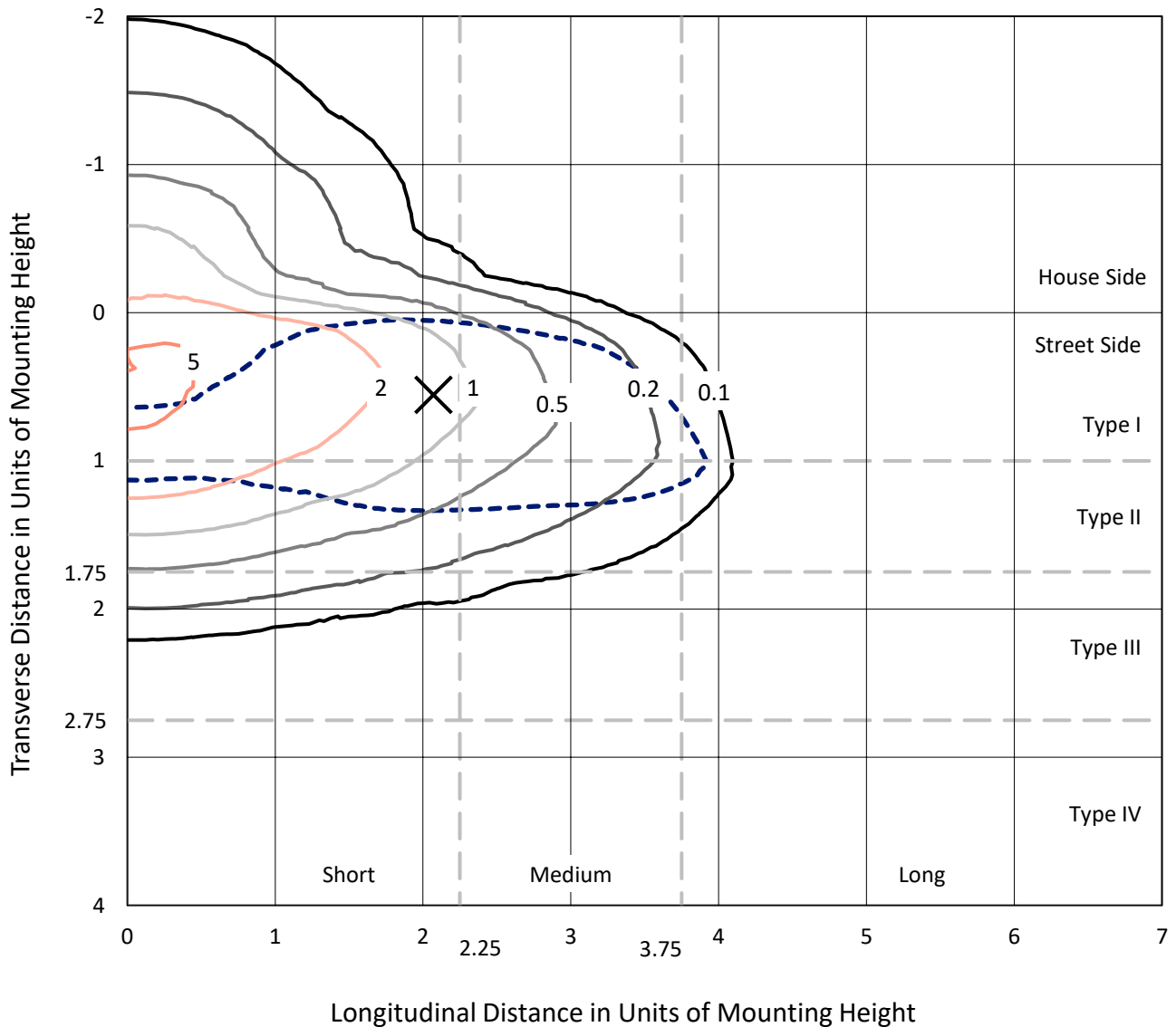
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452298
 CATALOG NUMBER: GALN-SA3B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

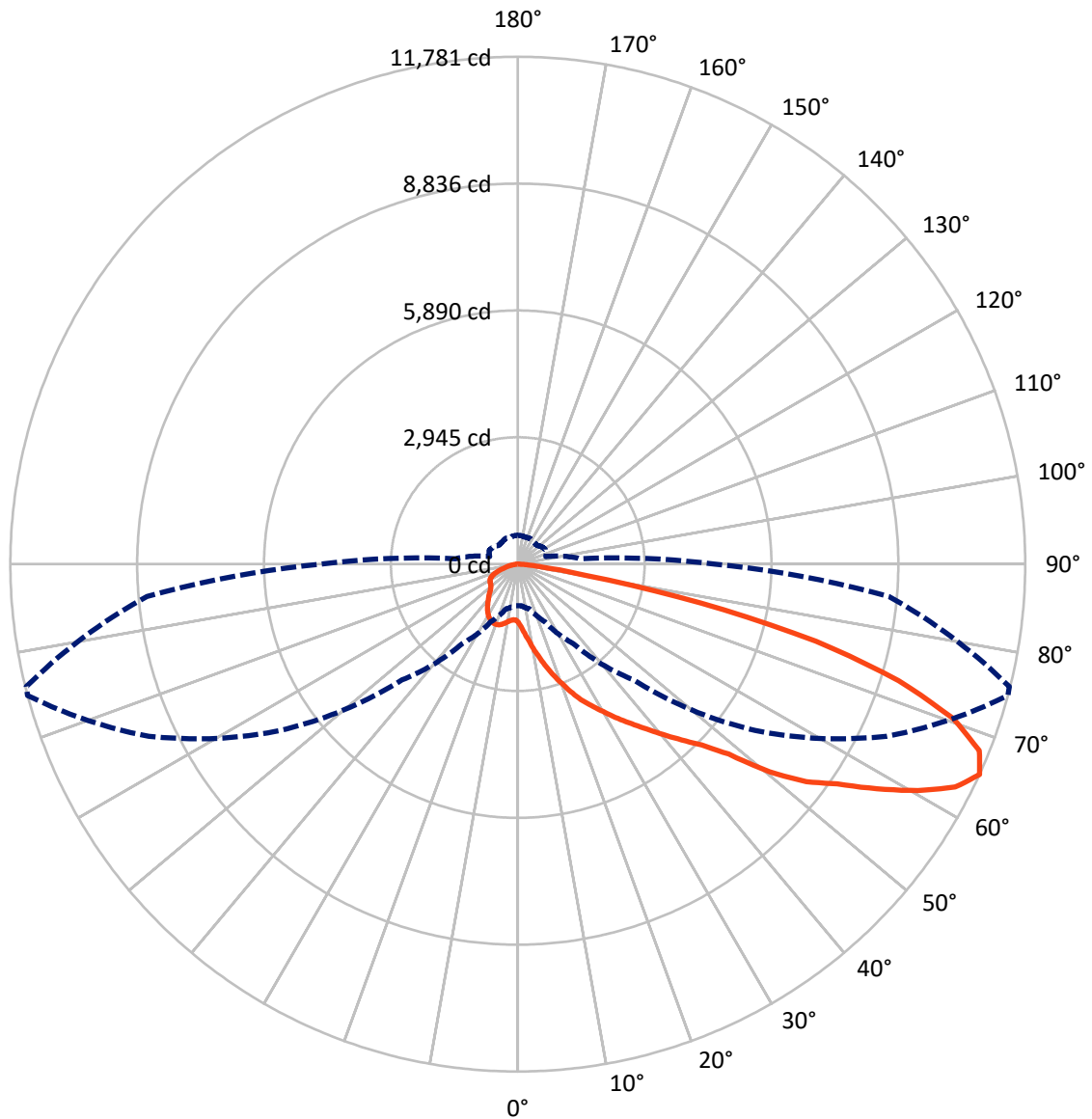
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P452298
CATALOG NUMBER: GALN-SA3B-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P452298

CATALOG NUMBER: GALN-SA3B-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2433.9	0.0	2433.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12044.1	0.0	12044.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	14478.0	0.0	14478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.1
10°-20°	640.2	4.4
20°-30°	1236.6	8.5
30°-40°	2008.6	13.9
40°-50°	2763.0	19.1
50°-60°	3262.1	22.5
60°-70°	2858.1	19.7
70°-80°	1364.5	9.4
80°-90°	181.6	1.3
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°	14478.0	100.0
0°-180°	14478.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452298

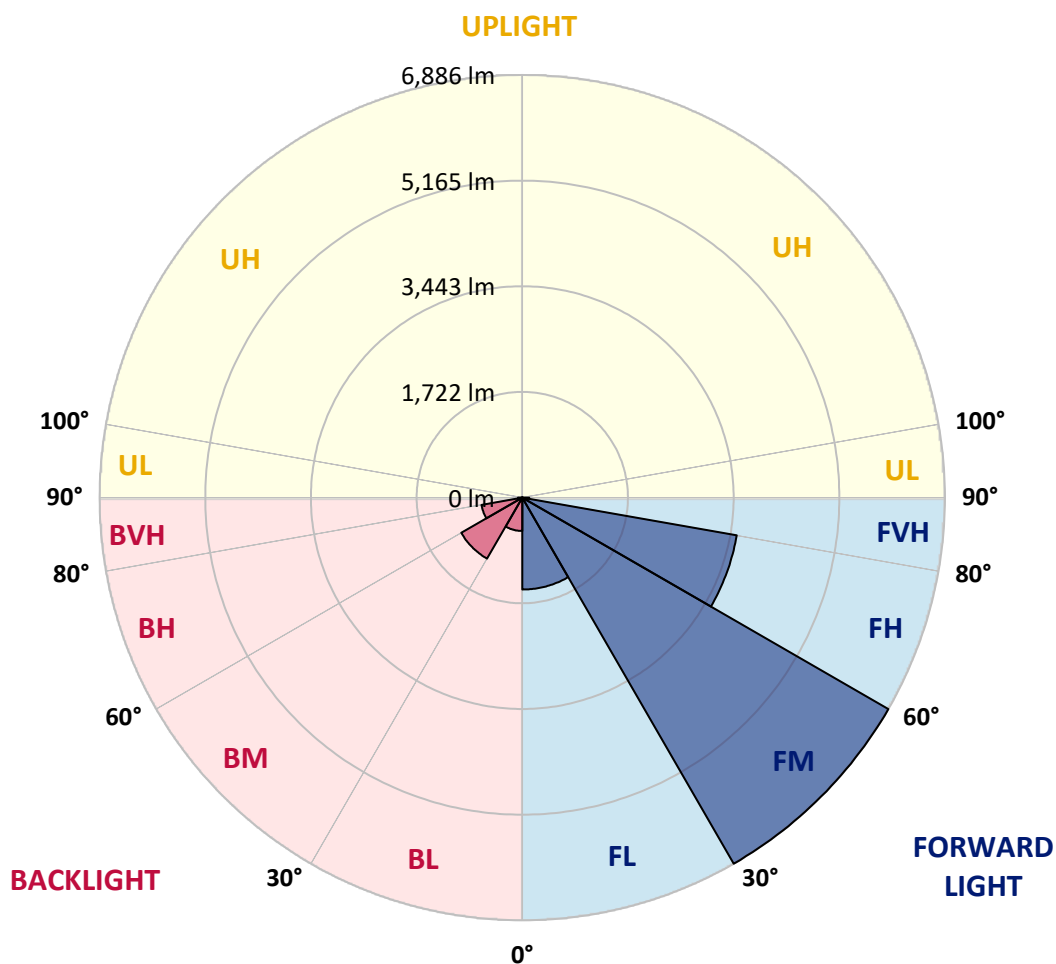
CATALOG NUMBER: GALN-SA3B-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.8	10.3			
FM (30°-60°)	6886.0	47.6			
FH (60°-80°)	3547.8	24.5			G2/5000
FVH (80°-90°)	113.5	0.8			G2/225
BL (0°-30°)	543.4	3.8	B2/1000		
BM (30°-60°)	1147.6	7.9	B2/2500		
BH (60°-80°)	674.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.1	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 Short





REPORT NUMBER: P452298

CATALOG NUMBER: GALN-SA3B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1787.3	1775.5	1763.0	1728.4	1691.5	1649.9	1590.2	1532.9	1456.7	1454.3	1397.8
5°	2282.8	2275.0	2219.2	2187.0	2101.4	1987.6	1891.0	1741.0	1602.0	1585.5	1475.5
7.5°	2738.3	2707.7	2686.5	2628.3	2543.5	2397.5	2210.6	2008.0	1775.5	1753.5	1571.4
10°	3081.4	3078.3	3067.3	3017.1	2953.4	2808.2	2600.9	2310.3	1995.4	1952.2	1687.6
12.5°	3338.2	3340.6	3339.0	3338.2	3292.7	3169.4	2944.8	2638.5	2217.6	2187.0	1821.9
15°	3507.1	3530.6	3540.1	3579.3	3583.2	3500.8	3307.6	2955.8	2468.1	2422.6	1966.3
17.5°	3618.6	3630.4	3674.3	3741.1	3795.3	3780.4	3608.4	3249.5	2724.1	2648.0	2116.3
20°	3725.4	3745.8	3779.6	3870.7	3966.5	4010.4	3889.5	3550.3	2977.8	2929.1	2282.0
22.5°	3947.6	3976.7	3988.5	4034.8	4116.5	4194.2	4139.2	3838.5	3255.8	3189.8	2457.9
25°	4323.8	4354.4	4321.4	4310.4	4337.1	4375.6	4363.8	4110.2	3518.1	3423.8	2624.4
27.5°	4813.8	4817.7	4753.3	4692.1	4626.1	4606.5	4570.3	4351.3	3745.8	3667.3	2791.7
30°	5339.9	5321.1	5214.3	5103.6	4992.0	4882.1	4778.4	4583.7	3999.4	3909.1	2955.8
32.5°	5828.4	5818.2	5699.6	5527.6	5339.1	5235.5	5025.8	4818.5	4271.2	4184.0	3124.6
35°	6194.3	6209.2	6078.9	5891.2	5685.4	5593.6	5328.9	5065.1	4552.3	4457.3	3308.4
37.5°	6454.2	6446.4	6330.9	6168.4	5987.8	5907.7	5683.1	5334.4	4854.6	4763.5	3509.4
40°	6546.9	6542.2	6456.6	6338.0	6223.4	6195.1	6053.7	5625.0	5200.9	5094.1	3751.3
42.5°	6488.0	6498.2	6441.7	6409.5	6388.3	6408.7	6422.0	6005.8	5578.6	5480.5	4013.6
45°	6307.4	6301.9	6294.0	6346.7	6466.0	6600.3	6786.4	6365.5	5989.4	5910.8	4365.4
47.5°	5984.6	6023.9	6043.5	6188.8	6449.5	6767.6	7205.8	6847.7	6585.4	6517.1	4901.7
50°	5533.1	5564.5	5680.7	5939.1	6327.8	6830.4	7615.7	7636.1	7579.5	7451.5	5484.4
52.5°	4827.9	4876.6	5116.1	5589.6	6078.1	6804.5	7863.8	8312.2	8386.8	8291.0	6058.5
55°	4038.7	4107.0	4359.9	4981.0	5734.1	6663.1	8035.0	8704.1	9001.7	8913.0	6611.3
57.5°	3266.0	3338.2	3598.2	4199.7	5134.2	6350.6	8147.3	9140.7	9838.8	9723.4	7299.2
60°	2447.7	2523.1	2746.1	3365.7	4279.8	5739.6	8071.1	9519.2	10675.1	10625.7	7987.9
62.5°	1579.2	1662.4	1856.4	2369.2	3289.5	4904.9	7663.6	9728.1	11399.2	11339.5	8490.5
65°	962.0	971.4	1078.2	1470.8	2251.4	3797.6	6731.4	9450.9	11780.8	11762.7	8643.6
67.5°	621.9	636.9	685.6	881.1	1349.9	2637.8	5382.3	8536.0	11557.8	11551.5	8327.1
70°	525.4	530.1	552.1	594.5	784.5	1599.6	3779.6	7077.8	10710.5	10710.5	7566.2
72.5°	469.6	475.9	483.7	497.1	559.9	906.2	2255.3	5509.5	9247.5	9308.7	6440.1
75°	426.4	424.8	429.5	431.9	477.5	592.1	1166.1	4074.8	7153.9	7031.4	4663.8
77.5°	365.2	367.5	365.2	375.4	421.7	450.8	592.1	2734.4	4335.5	4176.9	2340.9
80°	300.0	303.9	307.8	314.1	360.4	342.4	355.7	1246.2	1603.5	1569.8	723.2
82.5°	225.4	230.9	237.2	252.1	283.5	226.2	224.6	532.4	578.8	530.1	266.2
85°	91.1	107.6	162.6	177.5	178.3	124.1	138.2	222.2	236.4	230.9	104.4
87.5°	21.2	25.1	52.6	79.3	73.0	46.3	51.0	72.2	82.5	76.2	35.3
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: P452298
 CATALOG NUMBER: GALN-SA3B-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1371.9	1344.4	1297.3	1261.2	1235.2	1212.5	1198.3	1189.7	1186.6	1185.8	1186.6
5°	1418.2	1369.5	1294.9	1247.8	1221.9	1207.0	1198.3	1197.6	1198.3	1199.1	1196.8
7.5°	1481.8	1411.9	1314.6	1270.6	1251.0	1240.0	1236.0	1234.5	1235.2	1234.5	1234.5
10°	1566.6	1470.8	1353.0	1307.5	1291.0	1278.4	1272.2	1268.2	1265.1	1261.9	1260.4
12.5°	1660.1	1536.0	1394.7	1350.7	1327.1	1307.5	1293.4	1283.2	1276.1	1269.0	1267.4
15°	1764.5	1605.1	1441.0	1379.7	1346.0	1316.9	1292.6	1276.1	1263.5	1253.3	1252.5
17.5°	1864.3	1670.3	1472.4	1393.1	1343.6	1302.8	1270.6	1247.8	1232.1	1218.8	1217.2
20°	1971.1	1732.3	1486.5	1384.5	1320.1	1270.6	1228.2	1200.7	1182.6	1167.7	1165.4
22.5°	2078.6	1784.9	1485.0	1357.0	1279.2	1221.1	1176.4	1147.3	1126.1	1111.2	1105.7
25°	2181.5	1827.4	1465.3	1313.0	1222.7	1162.2	1116.7	1090.0	1071.1	1053.1	1053.1
27.5°	2274.2	1852.5	1428.4	1259.6	1164.6	1101.0	1064.8	1040.5	1023.2	1011.4	1004.4
30°	2365.3	1864.3	1378.2	1192.1	1103.3	1049.1	1020.1	1005.9	990.2	976.9	975.3
32.5°	2446.9	1861.9	1315.3	1126.1	1045.2	1006.7	995.0	984.0	967.5	948.6	943.9
35°	2526.3	1846.2	1240.7	1053.8	996.5	981.6	984.7	969.0	939.2	915.6	911.7
37.5°	2612.6	1817.9	1159.1	995.0	955.7	969.8	977.7	943.1	894.4	857.5	848.9
40°	2712.4	1785.7	1074.3	936.1	923.5	958.8	958.8	895.2	828.5	805.7	799.4
42.5°	2829.4	1759.0	1003.6	886.6	896.8	932.1	928.2	831.6	804.1	792.4	789.2
45°	3014.7	1749.6	930.6	843.4	874.8	900.7	868.5	809.6	793.9	784.5	781.4
47.5°	3307.6	1760.6	866.2	811.2	849.7	869.3	801.8	794.7	783.7	770.4	768.8
50°	3579.3	1750.4	820.6	793.1	827.7	831.6	774.3	776.6	770.4	755.4	752.3
52.5°	3801.6	1718.2	791.6	783.7	808.8	765.7	748.4	757.0	754.7	735.8	732.7
55°	4045.8	1698.6	777.4	783.7	796.3	708.3	724.0	736.6	733.5	720.1	719.3
57.5°	4341.8	1702.5	767.2	786.1	783.7	679.3	699.7	714.6	713.8	709.9	709.9
60°	4644.9	1704.1	751.5	785.3	768.8	656.5	674.6	695.8	697.3	699.7	699.7
62.5°	4745.5	1635.7	720.9	771.1	735.8	634.5	651.0	680.1	678.5	684.8	685.6
65°	4557.8	1446.5	675.3	739.0	693.4	618.8	632.9	659.6	651.0	667.5	670.6
67.5°	4148.6	1196.8	604.7	680.8	646.3	602.3	621.2	631.4	615.7	647.9	648.6
70°	3585.6	934.5	515.1	598.4	592.9	585.0	611.7	596.0	574.0	613.3	605.5
72.5°	2998.2	713.8	411.5	489.2	521.4	559.1	595.2	550.5	519.9	531.6	517.5
75°	2252.2	527.7	330.6	383.2	434.3	522.2	580.3	495.5	448.4	437.4	434.3
77.5°	1148.1	344.7	247.4	286.6	325.9	472.0	559.9	431.1	371.4	354.2	346.3
80°	409.9	214.4	174.3	197.9	219.9	406.0	489.2	356.5	288.2	285.1	288.2
82.5°	190.0	138.2	117.0	129.6	130.4	270.9	373.0	266.2	219.1	333.0	281.1
85°	81.7	69.1	66.0	64.4	59.7	120.9	209.7	142.9	223.0	99.7	91.9
87.5°	24.3	27.5	24.3	18.1	13.3	13.3	21.2	7.9	5.5	3.9	3.9
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)