

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: P527226

Luminaire Tested: **GALN-SA2B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8027 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

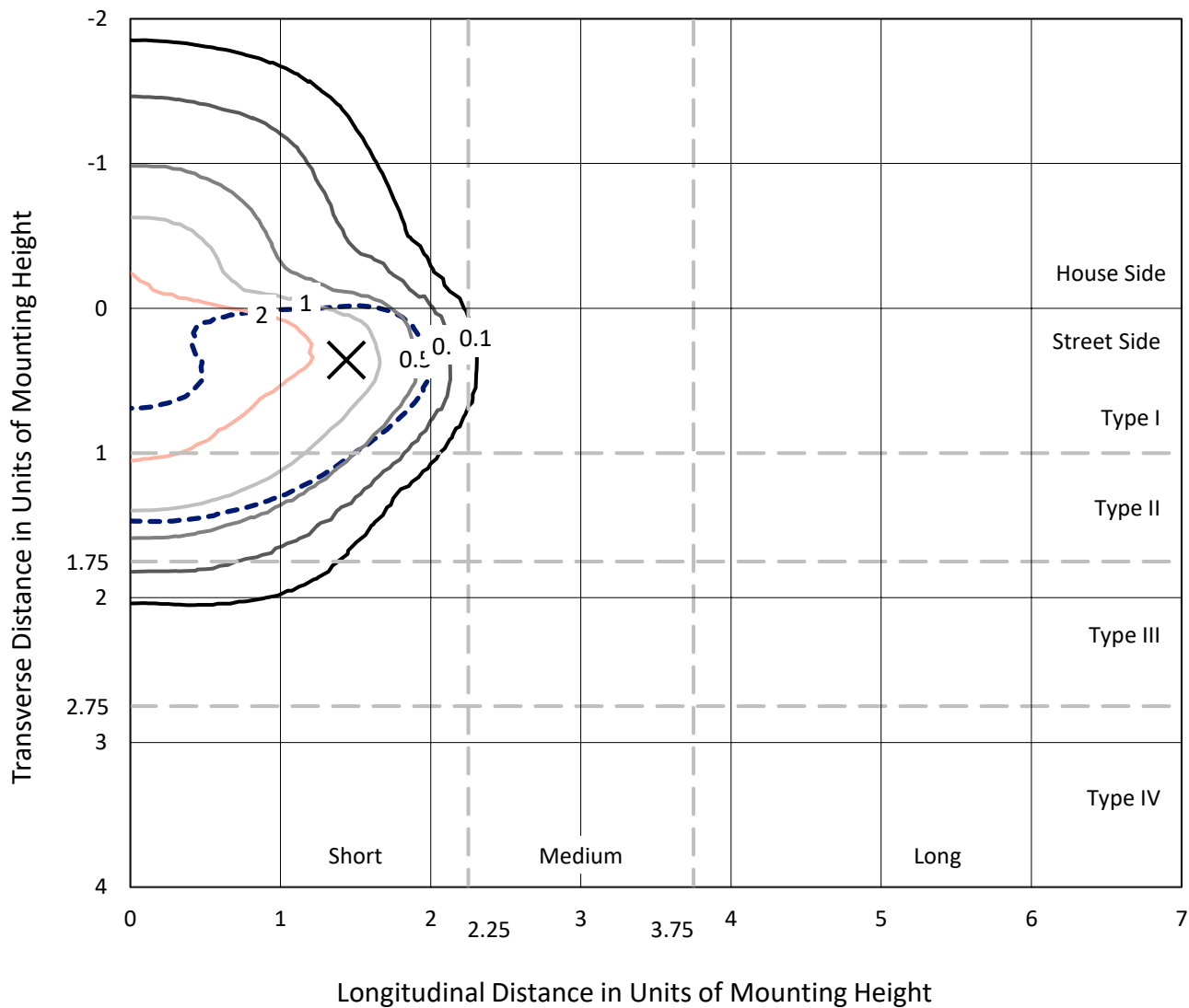
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527226  
 CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

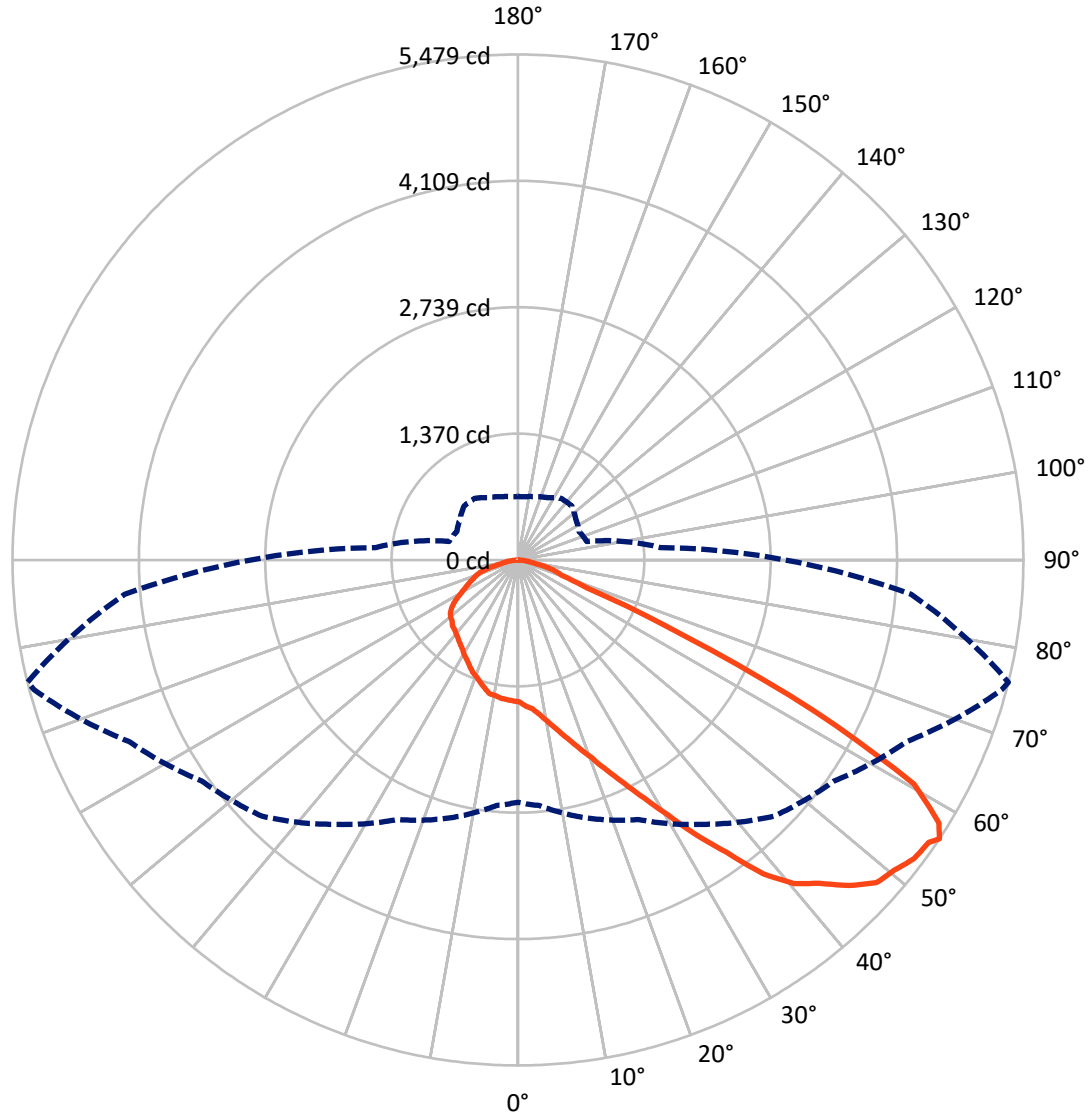
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P527226  
CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527226  
 CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2158.2	0.0	2158.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	5868.8	0.0	5868.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	8027.0	0.0	8027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.3	1.9
10°-20°	478.5	6.0
20°-30°	836.8	10.4
30°-40°	1310.1	16.3
40°-50°	1905.9	23.7
50°-60°	2094.7	26.1
60°-70°	935.0	11.6
70°-80°	270.1	3.4
80°-90°	43.8	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°	8027.0	100.0
0°-180°	8027.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527226

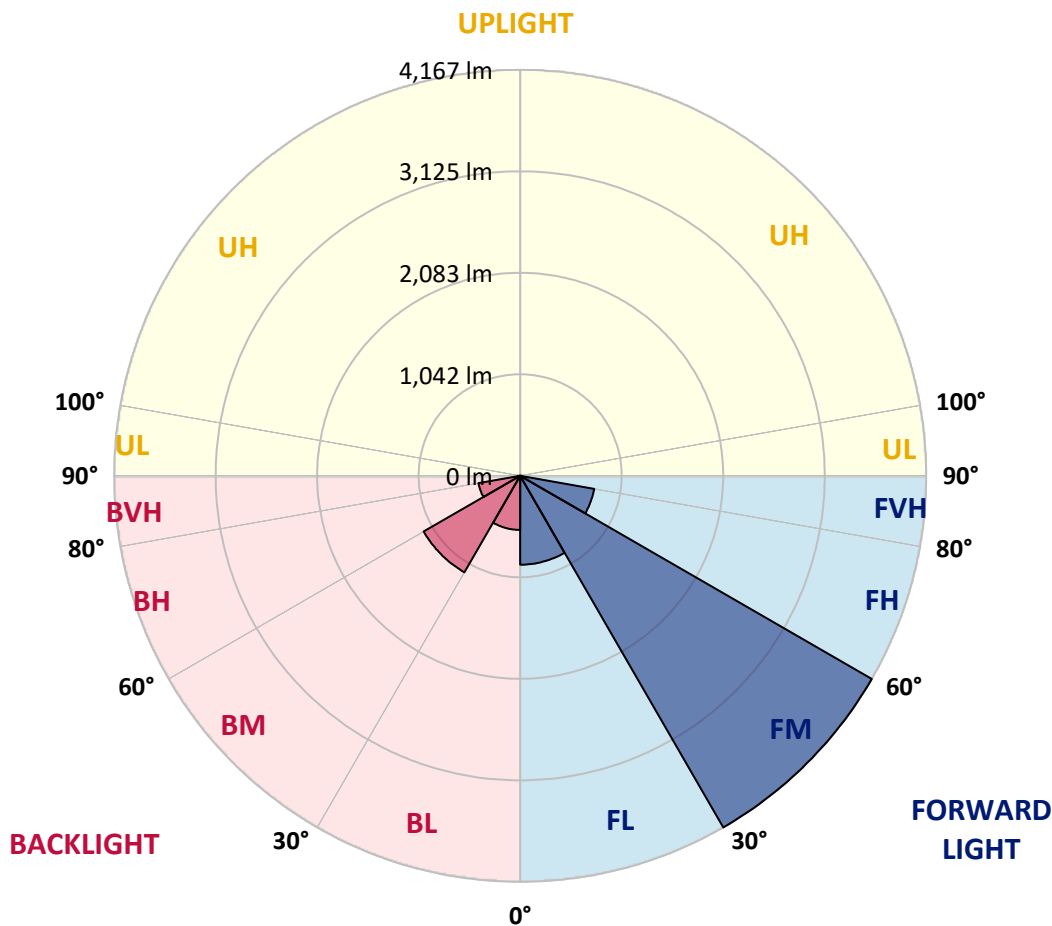
CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.2	11.4			
FM (30°-60°)	4167.0	51.9			
FH (60°-80°)	770.8	9.6			G1/1800
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	555.4	6.9	B2/1000		
BM (30°-60°)	1143.7	14.2	B2/2500		
BH (60°-80°)	434.2	5.4	B1/500		G1/500
BVH (80°-90°)	24.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P527226

CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1691.9	1664.9	1662.8	1655.5	1659.7	1641.0	1621.2	1595.2	1568.1	1584.8	1545.2
5°	1810.6	1774.2	1788.7	1763.7	1766.9	1741.9	1701.3	1671.1	1637.8	1618.1	1590.0
7.5°	1852.2	1855.3	1865.7	1861.6	1840.7	1840.7	1813.7	1760.6	1702.4	1690.9	1644.1
10°	1908.4	1909.4	1898.0	1901.1	1930.2	1916.7	1892.8	1869.9	1795.0	1781.4	1698.2
12.5°	1928.2	1909.4	1928.2	1944.8	1979.1	1997.9	1992.7	1976.0	1895.9	1886.5	1764.8
15°	1931.3	1919.8	1935.4	1972.9	2003.1	2082.2	2121.7	2110.3	2004.1	2005.2	1839.7
17.5°	1916.7	1932.3	1938.6	1970.8	2040.5	2114.4	2228.9	2244.5	2157.1	2143.5	1934.4
20°	1936.5	1925.0	1933.4	1962.5	2055.1	2170.6	2320.4	2423.5	2300.7	2291.3	2032.2
22.5°	2012.4	1996.8	1994.7	2013.5	2080.1	2199.7	2417.2	2602.4	2475.5	2480.7	2154.0
25°	2071.8	2080.1	2072.8	2071.8	2113.4	2243.4	2545.2	2815.7	2712.7	2682.6	2297.6
27.5°	2173.7	2193.5	2178.9	2198.7	2189.3	2309.0	2636.8	3052.0	2968.7	2928.1	2427.6
30°	2315.2	2325.6	2312.1	2312.1	2284.0	2400.6	2720.0	3298.6	3264.2	3209.1	2580.6
32.5°	2501.5	2517.1	2490.1	2474.4	2470.3	2536.9	2869.9	3542.1	3600.3	3553.5	2783.5
35°	2748.1	2738.7	2706.5	2691.9	2635.7	2746.0	3092.5	3822.0	3974.9	3891.7	3029.1
37.5°	2965.6	2951.0	2948.9	2867.8	2881.3	2971.8	3281.9	4034.2	4338.1	4314.2	3288.2
40°	3168.5	3182.0	3203.9	3158.1	3137.3	3237.2	3502.5	4196.6	4620.1	4610.7	3487.9
42.5°	3386.0	3373.5	3412.0	3373.5	3342.3	3483.8	3741.8	4309.0	4867.7	4790.7	3697.1
45°	3701.3	3661.7	3675.3	3678.4	3655.5	3707.5	3840.7	4390.1	5041.5	5033.2	3850.1
47.5°	3964.5	3965.6	3942.7	3925.0	3855.3	3907.3	3951.0	4441.1	5241.3	5227.8	3909.4
50°	4062.3	4048.8	4115.4	4153.9	4158.1	4051.9	4037.4	4469.2	5346.4	5287.1	3968.7
52.5°	3710.6	3723.1	3828.2	4057.1	4189.3	4200.7	4138.3	4527.5	5389.0	5376.6	4016.6
55°	2986.4	3046.8	3219.5	3483.8	3797.0	4141.4	4247.6	4587.8	5411.9	5401.5	4228.8
56°	2625.3	2672.2	2896.9	3104.0	3497.3	3926.0	4178.9	4652.3	5429.6	5478.5	4278.8
57.5°	2113.4	2167.5	2328.8	2563.9	3028.0	3516.0	3989.5	4573.3	5361.0	5379.7	4315.2
60°	1321.5	1326.7	1520.3	1675.3	2002.0	2478.6	3044.7	3979.1	4961.4	4934.3	3876.1
62.5°	866.8	867.8	1043.7	1170.6	1319.4	1428.7	1791.8	2638.9	3660.7	3612.8	2759.6
65°	608.7	622.3	758.6	928.2	988.5	931.3	919.9	1391.2	2044.7	1976.0	1482.8
67.5°	445.4	446.4	567.1	749.2	836.6	708.6	575.4	679.5	809.6	807.5	686.8
70°	294.5	307.0	399.6	559.8	659.7	569.2	470.3	485.9	515.1	515.1	510.9
72.5°	171.7	183.1	244.5	354.8	370.4	355.9	372.5	416.2	435.0	433.9	428.7
75°	97.8	103.0	116.5	147.8	184.2	217.5	273.7	315.3	334.0	345.5	331.9
77.5°	57.2	60.4	68.7	84.3	95.7	117.6	148.8	177.9	202.9	199.8	201.9
80°	30.2	30.2	38.5	49.9	66.6	83.2	98.9	115.5	129.0	132.2	135.3
82.5°	17.7	18.7	25.0	36.4	47.9	59.3	76.0	87.4	99.9	100.9	103.0
85°	9.4	10.4	15.6	23.9	32.3	36.4	37.5	35.4	38.5	36.4	41.6
87.5°	3.1	3.1	5.2	4.2	4.2	5.2	6.2	6.2	8.3	8.3	8.3
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: P527226

CATALOG NUMBER: GALN-SA2B-727-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1544.2	1544.2	1526.5	1493.2	1488.0	1474.5	1462.0	1460.9	1451.6	1443.3	1439.1
5°	1573.3	1541.1	1515.1	1484.9	1449.5	1432.8	1414.1	1393.3	1385.0	1393.3	1392.3
7.5°	1606.6	1579.6	1501.5	1445.3	1404.8	1388.1	1367.3	1345.4	1347.5	1347.5	1333.0
10°	1638.9	1602.5	1477.6	1405.8	1346.5	1334.0	1322.5	1330.9	1341.3	1343.4	1334.0
12.5°	1693.0	1610.8	1466.1	1366.3	1328.8	1301.7	1309.0	1331.9	1353.8	1347.5	1354.8
15°	1733.6	1618.1	1414.1	1325.7	1278.8	1291.3	1317.3	1333.0	1369.4	1365.2	1372.5
17.5°	1773.1	1622.2	1363.1	1271.6	1251.8	1286.1	1305.9	1350.6	1362.1	1387.1	1396.4
20°	1854.3	1630.6	1311.1	1238.3	1232.0	1271.6	1305.9	1326.7	1351.7	1373.5	1373.5
22.5°	1895.9	1626.4	1276.8	1194.6	1214.3	1239.3	1270.5	1305.9	1305.9	1326.7	1327.8
25°	1947.9	1609.7	1222.7	1173.7	1188.3	1212.2	1247.6	1235.1	1248.7	1248.7	1265.3
27.5°	2007.2	1574.4	1175.8	1136.3	1165.4	1191.4	1196.6	1188.3	1172.7	1170.6	1164.4
30°	2055.1	1530.7	1141.5	1123.8	1147.7	1162.3	1145.7	1128.0	1100.9	1098.8	1084.3
32.5°	2120.7	1476.6	1098.8	1092.6	1119.6	1120.7	1115.5	1088.4	1048.9	1032.2	1015.6
35°	2231.0	1445.3	1066.6	1075.9	1084.3	1081.1	1071.8	1042.6	1003.1	995.8	989.6
37.5°	2312.1	1422.4	1033.3	1044.7	1052.0	1056.2	1028.1	995.8	996.9	982.3	978.1
40°	2403.7	1407.9	1006.2	1011.4	1012.5	1026.0	991.7	976.0	983.3	974.0	980.2
42.5°	2521.3	1412.0	978.1	974.0	993.7	988.5	971.9	951.1	955.2	927.1	931.3
45°	2583.7	1440.1	961.5	942.7	964.6	963.6	941.7	921.9	897.0	842.9	844.9
47.5°	2625.3	1447.4	921.9	909.4	932.3	945.9	920.9	875.1	839.7	801.2	791.9
50°	2668.0	1460.9	903.2	877.2	886.6	918.8	887.6	843.9	809.6	775.2	780.4
52.5°	2705.5	1487.0	866.8	828.3	844.9	880.3	863.7	810.6	773.1	745.0	736.7
55°	2871.9	1545.2	805.4	755.4	795.0	839.7	830.4	765.9	725.3	710.7	708.6
56°	2898.0	1547.3	773.1	730.5	766.9	826.2	814.8	746.1	709.7	686.8	687.8
57.5°	2902.1	1522.3	727.3	707.6	738.8	806.4	791.9	730.5	680.5	659.7	653.5
60°	2553.5	1188.3	670.1	657.6	694.1	746.1	740.9	687.8	631.6	607.7	619.1
62.5°	1740.9	870.9	625.4	623.3	642.0	693.0	679.5	631.6	584.8	569.2	561.9
65°	1013.5	660.8	581.7	573.3	589.0	616.0	625.4	575.4	526.5	516.1	513.0
67.5°	598.3	546.3	525.5	512.0	506.8	523.4	530.7	501.5	452.6	438.1	450.6
70°	500.5	485.9	487.0	464.1	451.6	440.2	433.9	407.9	367.3	348.6	343.4
72.5°	431.8	425.6	421.4	400.6	389.2	363.2	336.1	310.1	279.9	264.3	265.3
75°	329.9	327.8	329.9	319.5	299.7	278.9	253.9	220.6	197.7	177.9	182.1
77.5°	196.7	202.9	206.0	201.9	193.5	174.8	159.2	137.4	115.5	99.9	97.8
80°	135.3	140.5	145.7	140.5	132.2	118.6	102.0	85.3	69.7	61.4	59.3
82.5°	103.0	108.2	111.3	106.1	95.7	81.2	69.7	58.3	45.8	37.5	35.4
85°	37.5	42.7	41.6	49.9	54.1	52.0	44.7	34.3	26.0	18.7	17.7
87.5°	10.4	9.4	10.4	10.4	10.4	9.4	8.3	8.3	8.3	5.2	4.2
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)