

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: P527044

Luminaire Tested: **GALN-SA2A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527044
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-SA2A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 7186 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

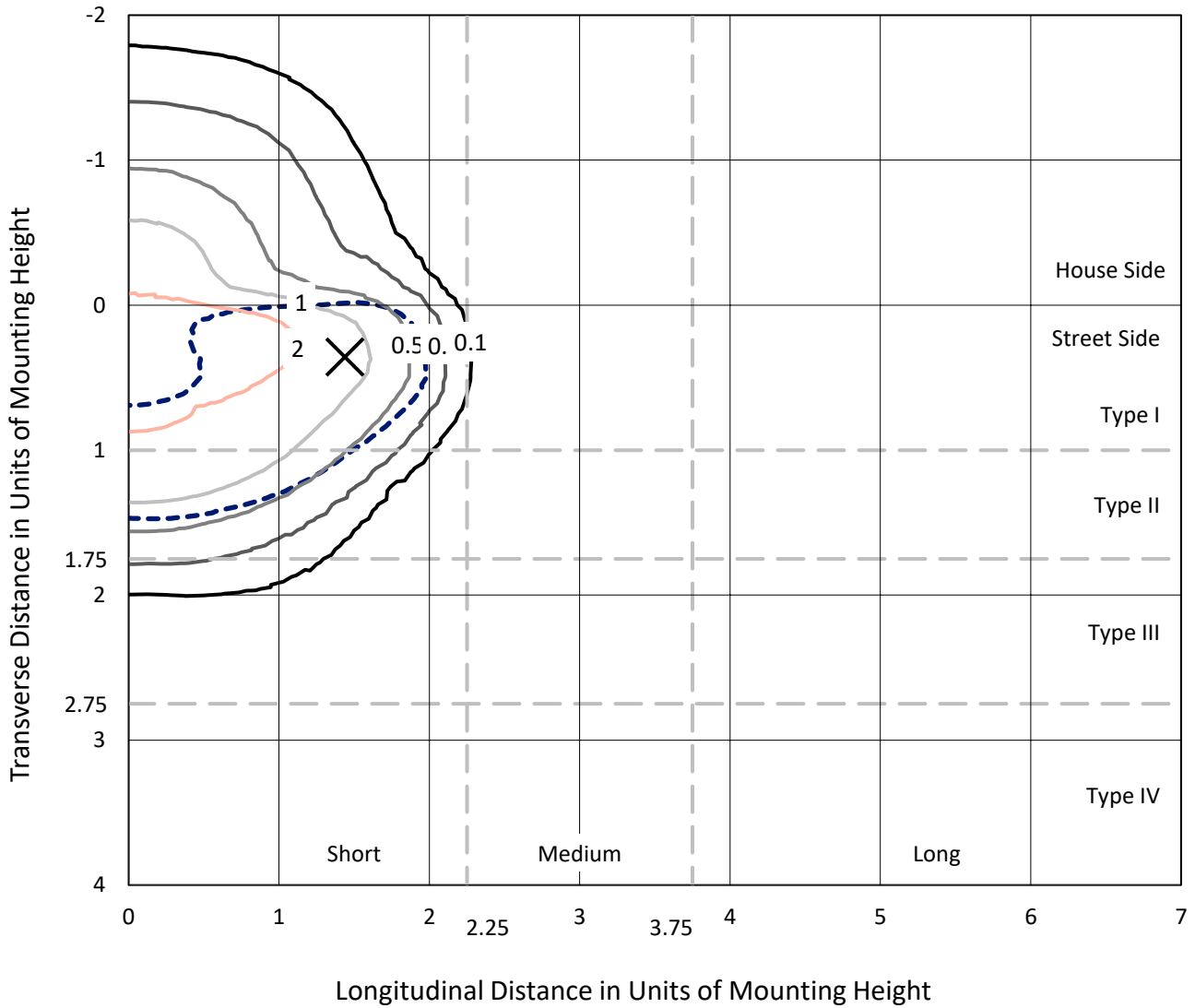
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527044
 CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

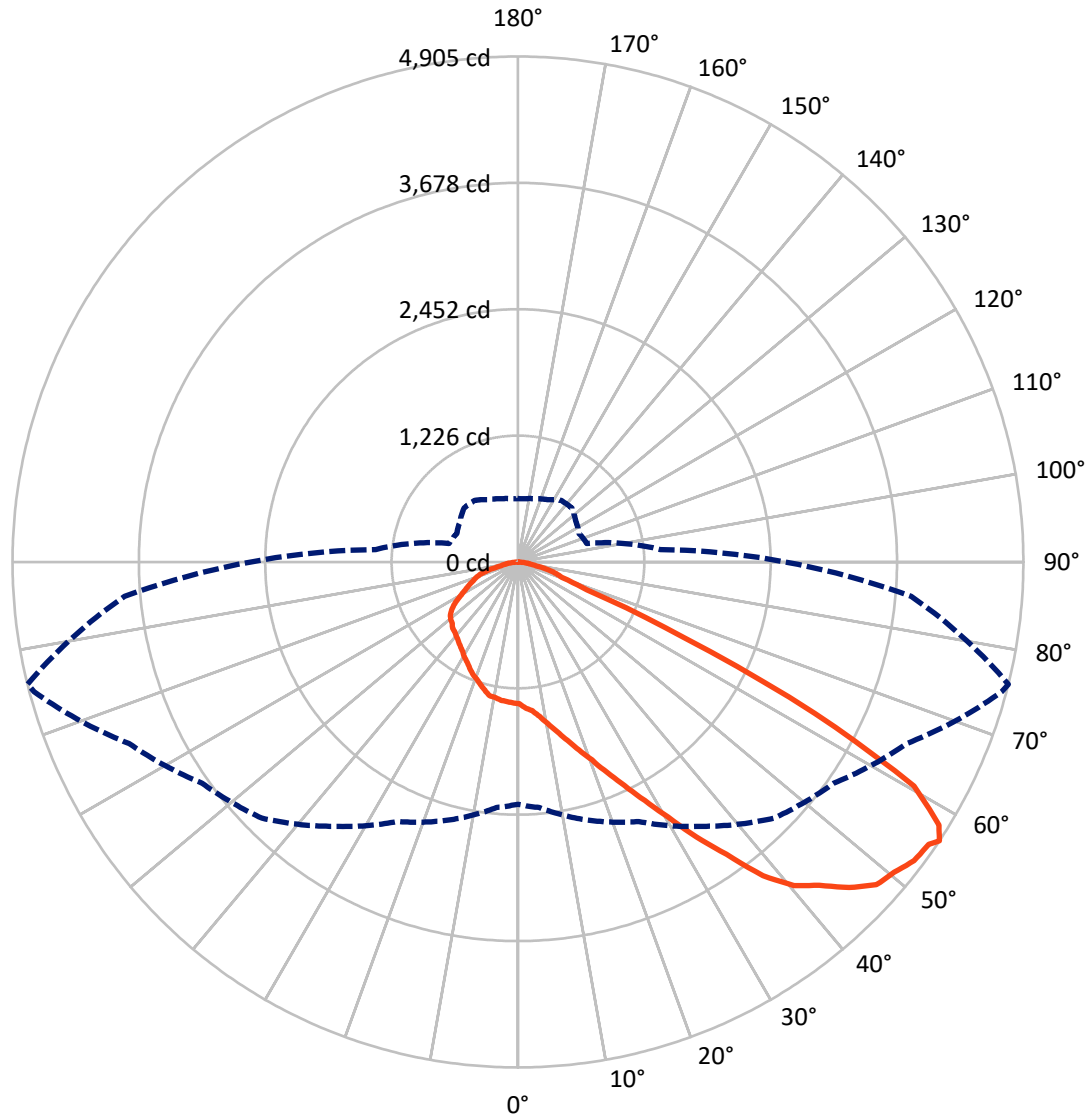
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527044
CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527044

CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

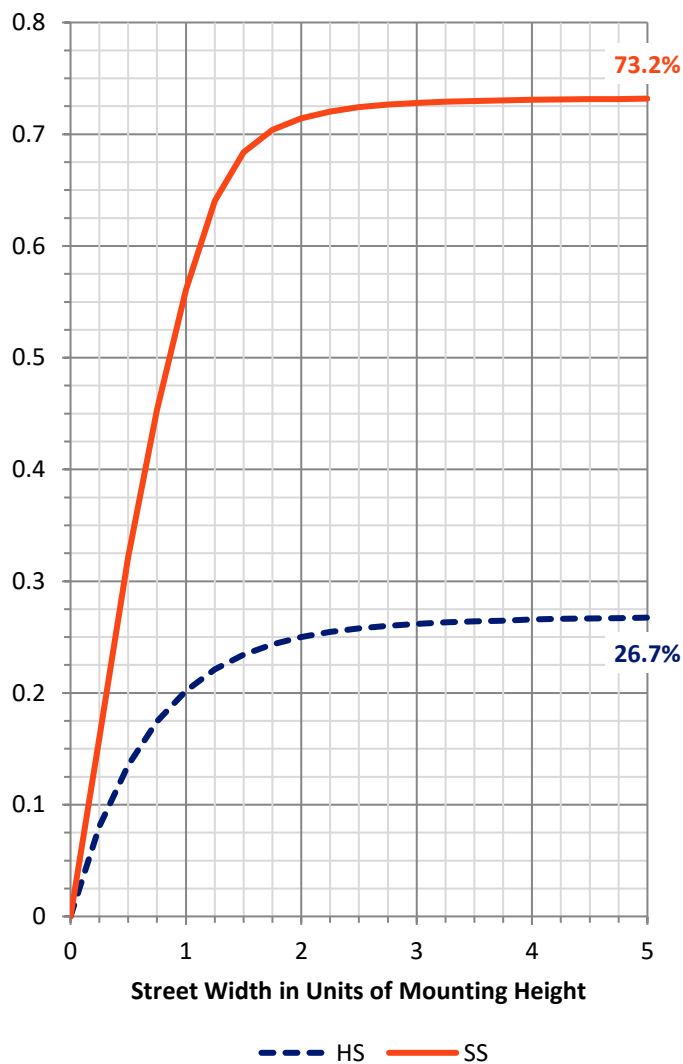
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.1	0.0	1932.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5253.9	0.0	5253.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	7186.0	0.0	7186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.9
10°-20°	428.3	6.0
20°-30°	749.1	10.4
30°-40°	1172.9	16.3
40°-50°	1706.2	23.7
50°-60°	1875.2	26.1
60°-70°	837.0	11.6
70°-80°	241.8	3.4
80°-90°	39.2	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°	7186.0	100.0
0°-180°	7186.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527044

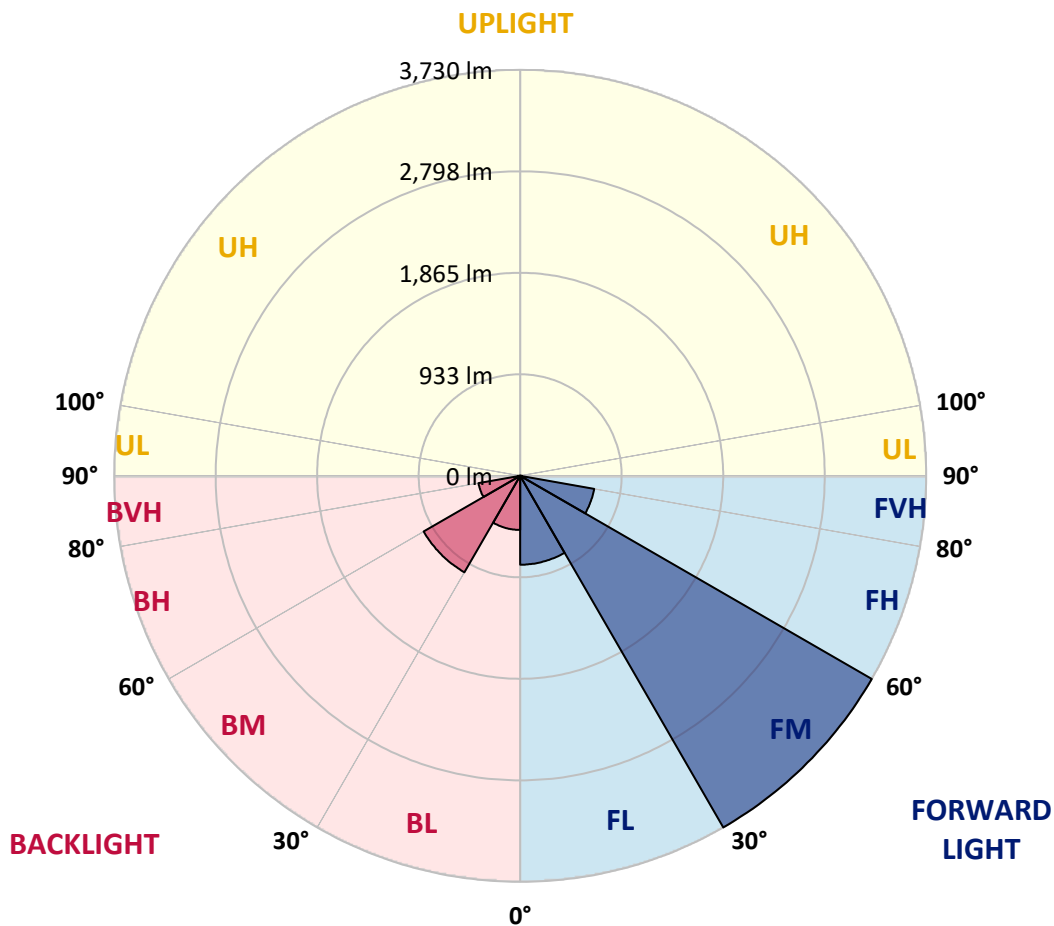
CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.6	11.4			
FM (30°-60°)	3730.4	51.9			
FH (60°-80°)	690.0	9.6			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	497.2	6.9	B1/500		
BM (30°-60°)	1023.9	14.2	B2/2500		
BH (60°-80°)	388.7	5.4	B1/500		G1/500
BVH (80°-90°)	22.3	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: P527044

CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1514.7	1490.5	1488.6	1482.1	1485.8	1469.0	1451.3	1428.0	1403.8	1418.7	1383.3
5°	1620.9	1588.3	1601.3	1579.0	1581.8	1559.4	1523.1	1496.0	1466.2	1448.5	1423.4
7.5°	1658.1	1660.9	1670.2	1666.5	1647.9	1647.9	1623.7	1576.2	1524.0	1513.7	1471.8
10°	1708.4	1709.4	1699.1	1701.9	1728.0	1715.9	1694.5	1674.0	1606.9	1594.8	1520.3
12.5°	1726.1	1709.4	1726.1	1741.0	1771.8	1788.6	1783.9	1769.0	1697.3	1688.9	1579.9
15°	1728.9	1718.7	1732.7	1766.2	1793.2	1864.0	1899.4	1889.2	1794.1	1795.1	1647.0
17.5°	1715.9	1729.9	1735.5	1764.3	1826.7	1892.9	1995.4	2009.3	1931.1	1919.0	1731.7
20°	1733.6	1723.3	1730.8	1756.9	1839.8	1943.2	2077.3	2169.6	2059.6	2051.2	1819.3
22.5°	1801.6	1787.6	1785.8	1802.5	1862.1	1969.3	2164.0	2329.8	2216.1	2220.8	1928.3
25°	1854.7	1862.1	1855.6	1854.7	1892.0	2008.4	2278.5	2520.7	2428.5	2401.5	2056.8
27.5°	1946.0	1963.7	1950.6	1968.3	1960.0	2067.1	2360.5	2732.2	2657.7	2621.3	2173.3
30°	2072.7	2082.0	2069.9	2069.9	2044.7	2149.1	2435.0	2953.0	2922.2	2872.9	2310.2
32.5°	2239.4	2253.4	2229.2	2215.2	2211.5	2271.1	2569.2	3171.0	3223.1	3181.2	2491.9
35°	2460.2	2451.8	2422.9	2409.9	2359.6	2458.3	2768.5	3421.5	3558.5	3483.9	2711.7
37.5°	2654.9	2641.8	2640.0	2567.3	2579.4	2660.5	2938.1	3611.6	3883.6	3862.2	2943.7
40°	2836.5	2848.6	2868.2	2827.2	2808.6	2898.0	3135.6	3756.9	4136.0	4127.6	3122.5
42.5°	3031.2	3020.0	3054.5	3020.0	2992.1	3118.8	3349.8	3857.5	4357.7	4288.8	3309.8
45°	3313.5	3278.1	3290.2	3293.0	3272.5	3319.1	3438.3	3930.2	4513.3	4505.8	3446.7
47.5°	3549.2	3550.1	3529.6	3513.8	3451.3	3497.9	3537.0	3975.8	4692.2	4680.0	3499.8
50°	3636.7	3624.6	3684.2	3718.7	3722.4	3627.4	3614.4	4001.0	4786.2	4733.1	3552.9
52.5°	3321.9	3333.0	3427.1	3632.1	3750.4	3760.6	3704.7	4053.1	4824.4	4813.3	3595.7
55°	2673.5	2727.5	2882.2	3118.8	3399.2	3707.5	3802.5	4107.1	4844.9	4835.6	3785.8
56°	2350.3	2392.2	2593.4	2778.8	3130.9	3514.7	3741.1	4164.9	4860.8	4904.5	3830.5
57.5°	1892.0	1940.4	2084.8	2295.3	2710.8	3147.7	3571.5	4094.1	4799.3	4816.0	3863.1
60°	1183.1	1187.7	1361.0	1499.8	1792.3	2218.9	2725.7	3562.2	4441.6	4417.3	3470.0
62.5°	776.0	776.9	934.3	1048.0	1181.2	1279.0	1604.1	2362.4	3277.1	3234.3	2470.4
65°	544.9	557.1	679.1	830.9	885.0	833.7	823.5	1245.5	1830.5	1769.0	1327.4
67.5°	398.7	399.6	507.7	670.7	749.0	634.4	515.1	608.3	724.7	722.9	614.8
70°	263.6	274.8	357.7	501.2	590.6	509.6	421.1	435.0	461.1	461.1	457.4
72.5°	153.7	164.0	218.9	317.7	331.6	318.6	333.5	372.6	389.4	388.5	383.8
75°	87.6	92.2	104.3	132.3	164.9	194.7	245.0	282.3	299.0	309.3	297.2
77.5°	51.2	54.0	61.5	75.5	85.7	105.3	133.2	159.3	181.6	178.9	180.7
80°	27.0	27.0	34.5	44.7	59.6	74.5	88.5	103.4	115.5	118.3	121.1
82.5°	15.8	16.8	22.4	32.6	42.9	53.1	68.0	78.2	89.4	90.4	92.2
85°	8.4	9.3	14.0	21.4	28.9	32.6	33.5	31.7	34.5	32.6	37.3
87.5°	2.8	2.8	4.7	3.7	3.7	4.7	5.6	5.6	7.5	7.5	7.5
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: P527044

CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1382.4	1382.4	1366.6	1336.8	1332.1	1320.0	1308.8	1307.9	1299.5	1292.0	1288.3
5°	1408.5	1379.6	1356.3	1329.3	1297.6	1282.7	1266.0	1247.3	1239.9	1247.3	1246.4
7.5°	1438.3	1414.1	1344.2	1293.9	1257.6	1242.7	1224.0	1204.5	1206.3	1206.3	1193.3
10°	1467.2	1434.6	1322.8	1258.5	1205.4	1194.2	1184.0	1191.4	1200.8	1202.6	1194.2
12.5°	1515.6	1442.0	1312.5	1223.1	1189.6	1165.4	1171.9	1192.4	1211.9	1206.3	1212.9
15°	1551.9	1448.5	1266.0	1186.8	1144.9	1156.0	1179.3	1193.3	1225.9	1222.2	1228.7
17.5°	1587.3	1452.3	1220.3	1138.3	1120.6	1151.4	1169.1	1209.1	1219.4	1241.7	1250.1
20°	1660.0	1459.7	1173.7	1108.5	1102.9	1138.3	1169.1	1187.7	1210.1	1229.6	1229.6
22.5°	1697.3	1456.0	1143.0	1069.4	1087.1	1109.5	1137.4	1169.1	1169.1	1187.7	1188.6
25°	1743.8	1441.1	1094.6	1050.8	1063.8	1085.2	1116.9	1105.7	1117.8	1117.8	1132.7
27.5°	1796.9	1409.4	1052.6	1017.2	1043.3	1066.6	1071.3	1063.8	1049.8	1048.0	1042.4
30°	1839.8	1370.3	1021.9	1006.1	1027.5	1040.5	1025.6	1009.8	985.6	983.7	970.7
32.5°	1898.5	1321.9	983.7	978.1	1002.3	1003.3	998.6	974.4	939.0	924.1	909.2
35°	1997.2	1293.9	954.8	963.2	970.7	967.9	959.5	933.4	898.0	891.5	885.9
37.5°	2069.9	1273.4	925.0	935.3	941.8	945.5	920.4	891.5	892.4	879.4	875.6
40°	2151.9	1260.4	900.8	905.5	906.4	918.5	887.8	873.8	880.3	871.9	877.5
42.5°	2257.1	1264.1	875.6	871.9	889.6	885.0	870.1	851.4	855.2	830.0	833.7
45°	2313.0	1289.2	860.7	844.0	863.5	862.6	843.0	825.3	803.0	754.5	756.4
47.5°	2350.3	1295.8	825.3	814.2	834.7	846.8	824.4	783.4	751.8	717.3	708.9
50°	2388.5	1307.9	808.6	785.3	793.7	822.5	794.6	755.5	724.7	694.0	698.7
52.5°	2422.0	1331.2	776.0	741.5	756.4	788.1	773.2	725.7	692.1	667.0	659.5
55°	2571.0	1383.3	721.0	676.3	711.7	751.8	743.4	685.6	649.3	636.2	634.4
56°	2594.3	1385.2	692.1	653.9	686.5	739.6	729.4	667.9	635.3	614.8	615.7
57.5°	2598.1	1362.8	651.1	633.4	661.4	721.9	708.9	653.9	609.2	590.6	585.0
60°	2286.0	1063.8	599.9	588.7	621.3	667.9	663.3	615.7	565.4	544.0	554.3
62.5°	1558.5	779.7	559.9	558.0	574.8	620.4	608.3	565.4	523.5	509.6	503.0
65°	907.3	591.5	520.7	513.3	527.3	551.5	559.9	515.1	471.4	462.0	459.2
67.5°	535.6	489.1	470.4	458.3	453.7	468.6	475.1	449.0	405.2	392.2	403.4
70°	448.1	435.0	436.0	415.5	404.3	394.0	388.5	365.2	328.8	312.1	307.4
72.5°	386.6	381.0	377.3	358.6	348.4	325.1	300.9	277.6	250.6	236.6	237.5
75°	295.3	293.4	295.3	286.0	268.3	249.7	227.3	197.5	177.0	159.3	163.0
77.5°	176.1	181.6	184.4	180.7	173.3	156.5	142.5	123.0	103.4	89.4	87.6
80°	121.1	125.8	130.4	125.8	118.3	106.2	91.3	76.4	62.4	55.0	53.1
82.5°	92.2	96.9	99.7	95.0	85.7	72.7	62.4	52.2	41.0	33.5	31.7
85°	33.5	38.2	37.3	44.7	48.4	46.6	40.1	30.7	23.3	16.8	15.8
87.5°	9.3	8.4	9.3	9.3	9.3	8.4	7.5	7.5	7.5	4.7	3.7
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)