

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: P534627

Luminaire Tested: **GALN-SA9A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-AMB-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6821 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

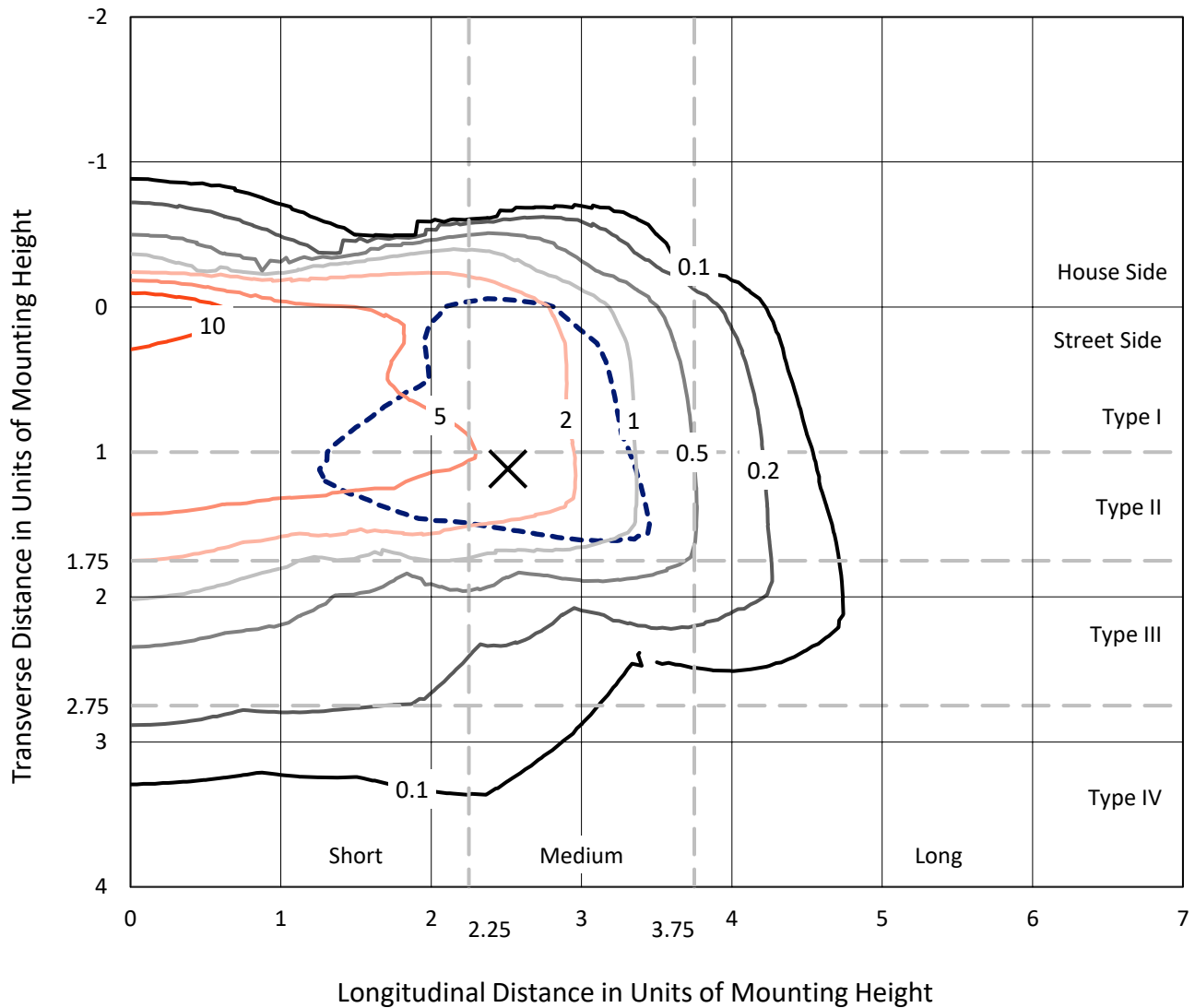
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534627
 CATALOG NUMBER: GALN-SA9A-AMB-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

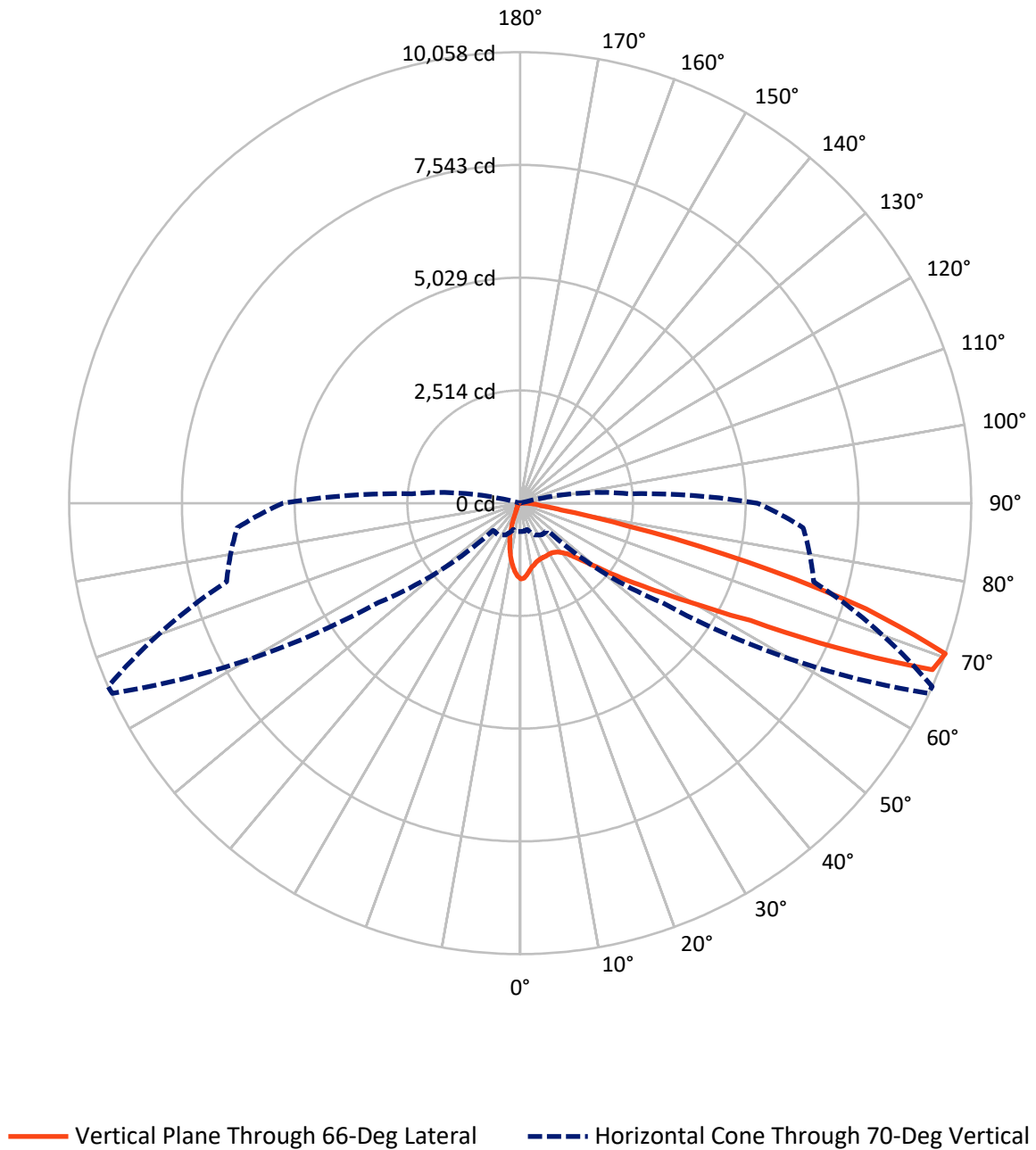
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P534627
CATALOG NUMBER: GALN-SA9A-AMB-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P534627

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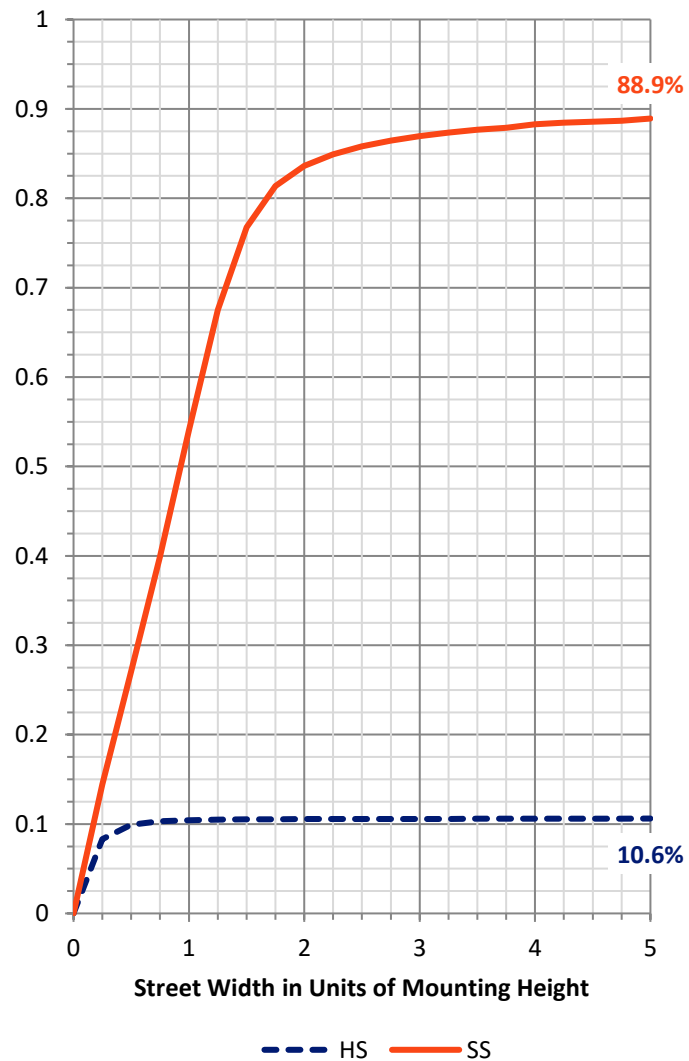
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	730.8	0.0	730.8
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	6090.2	0.0	6090.2
	% Fixture	89.3	0.0	89.3
Total	Lumens	6821.0	0.0	6821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.9
10°-20°	264.6	3.9
20°-30°	377.8	5.5
30°-40°	551.2	8.1
40°-50°	896.2	13.1
50°-60°	1545.6	22.7
60°-70°	1969.5	28.9
70°-80°	985.6	14.4
80°-90°	101.4	1.5
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°	6821.0	100.0
0°-180°	6821.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534627

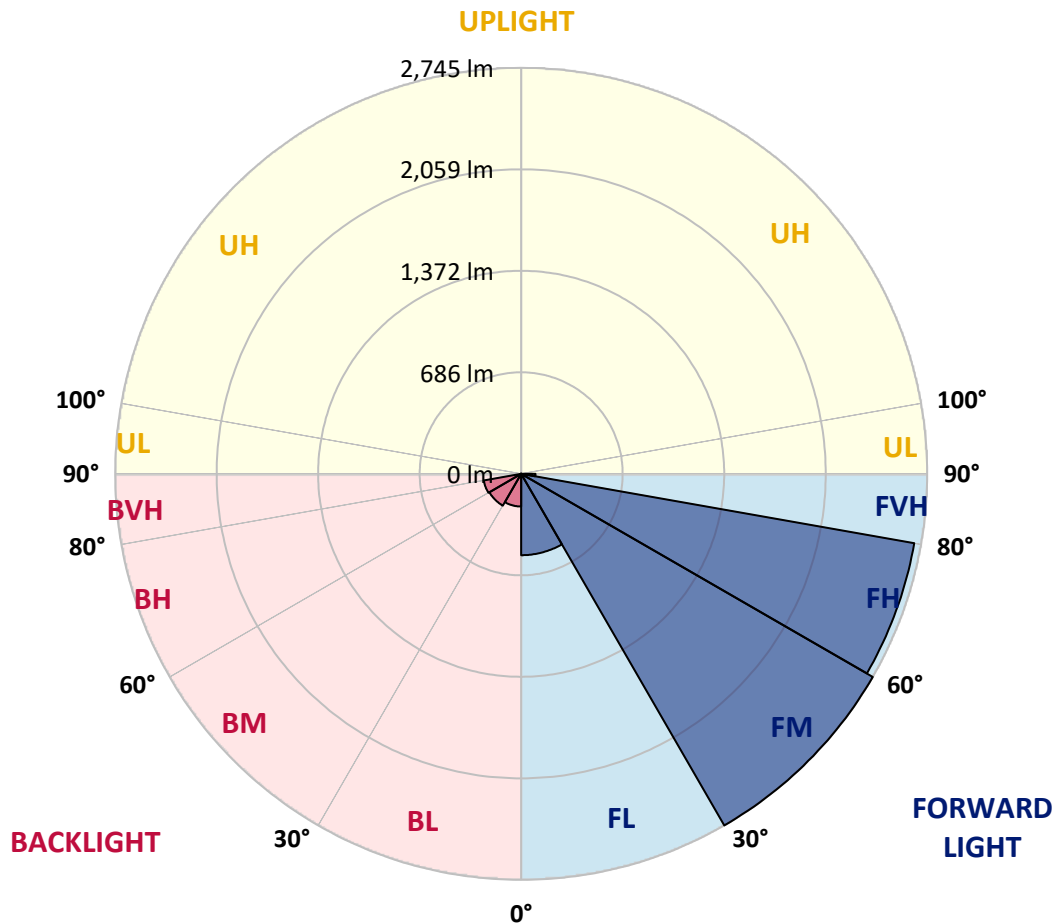
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.3	8.1			
FM	(30°-60°)	2744.8	40.2			
FH	(60°-80°)	2698.4	39.6			G2/5000
FVH	(80°-90°)	96.6	1.4			G1/100
BL	(0°-30°)	221.1	3.2	B1/500		
BM	(30°-60°)	248.3	3.6	B1/1000		
BH	(60°-80°)	256.7	3.8	B1/500		G1/500
BVH	(80°-90°)	4.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P534627

CATALOG NUMBER: GALN-SA9A-AMB-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7
2.5°	1580.7	1595.5	1580.7	1599.2	1602.9	1621.4	1651.0	1669.5	1673.2	1688.0	1691.7
5°	1458.5	1458.5	1465.9	1480.7	1499.2	1521.4	1547.4	1573.3	1602.9	1639.9	1673.2
7.5°	1362.3	1347.5	1351.2	1362.3	1395.6	1425.2	1462.2	1506.6	1514.0	1580.7	1643.6
10°	1258.6	1254.9	1262.3	1288.2	1310.4	1336.4	1380.8	1436.3	1443.7	1517.7	1628.8
12.5°	1180.9	1177.2	1188.3	1195.7	1232.7	1269.7	1321.5	1388.2	1406.7	1480.7	1621.4
15°	1121.7	1121.7	1129.1	1147.6	1177.2	1221.6	1273.4	1351.2	1358.6	1454.8	1636.2
17.5°	1106.8	1095.7	1095.7	1106.8	1132.8	1177.2	1232.7	1329.0	1336.4	1454.8	1654.7
20°	1110.5	1103.1	1095.7	1088.3	1110.5	1162.4	1214.2	1306.7	1317.8	1454.8	1688.0
22.5°	1132.8	1129.1	1117.9	1106.8	1110.5	1143.9	1206.8	1295.6	1314.1	1451.1	1713.9
25°	1192.0	1184.6	1173.5	1143.9	1125.4	1143.9	1206.8	1295.6	1314.1	1447.4	1736.2
27.5°	1258.6	1247.5	1247.5	1221.6	1169.8	1158.7	1210.5	1299.3	1306.7	1447.4	1762.1
30°	1366.0	1354.9	1343.8	1314.1	1254.9	1203.1	1232.7	1306.7	1306.7	1451.1	1769.5
32.5°	1488.1	1488.1	1473.3	1447.4	1358.6	1258.6	1254.9	1310.4	1314.1	1436.3	1769.5
35°	1632.5	1632.5	1643.6	1614.0	1499.2	1347.5	1306.7	1336.4	1343.8	1451.1	1754.7
37.5°	1754.7	1754.7	1780.6	1802.8	1673.2	1469.6	1380.8	1384.5	1380.8	1477.0	1765.8
40°	1895.3	1899.0	1939.8	1984.2	1902.7	1628.8	1491.8	1454.8	1451.1	1510.3	1802.8
42.5°	2050.8	2058.2	2128.5	2195.2	2128.5	1843.5	1647.3	1554.8	1543.7	1602.9	1876.8
45°	2184.1	2210.0	2317.3	2421.0	2409.9	2110.0	1847.2	1725.0	1717.6	1747.3	1995.3
47.5°	2432.1	2439.5	2550.6	2691.2	2720.8	2446.9	2102.6	1965.7	1950.9	1950.9	2187.8
50°	2691.2	2717.1	2809.7	3017.0	3161.4	2831.9	2428.4	2280.3	2269.2	2228.5	2465.4
52.5°	2820.8	2839.3	2961.5	3183.6	3598.2	3416.8	2824.5	2720.8	2691.2	2639.4	2809.7
55°	2709.7	2720.8	2820.8	3146.5	3775.9	4246.0	3424.2	3194.7	3198.4	3091.0	3335.3
57.5°	2254.4	2265.5	2350.7	2709.7	3657.4	4801.3	4308.9	3875.8	3812.9	3568.6	3805.5
60°	1684.3	1673.2	1651.0	1913.8	2939.2	4890.1	5734.1	4716.1	4645.8	4005.4	4331.1
62.5°	1262.3	1247.5	1217.9	1277.1	1743.6	4305.2	6648.5	5889.6	5760.0	4516.2	4941.9
65°	981.0	962.5	966.2	995.8	1088.3	2780.1	6948.3	8121.8	7784.9	5315.8	5704.5
67.5°	777.4	770.0	755.2	888.4	877.3	1351.2	6133.9	9943.1	9917.2	6400.4	6681.8
70°	629.3	633.0	610.8	784.8	855.1	855.1	3868.4	10035.6	10057.8	6778.0	6333.8
72.5°	455.3	451.6	462.7	644.1	847.7	814.4	1695.4	8018.1	8070.0	5963.6	4941.9
75°	248.0	259.1	303.5	466.4	844.0	795.9	832.9	5186.2	5241.8	3650.0	2406.2
77.5°	125.9	129.6	162.9	285.0	681.1	773.7	725.6	2469.1	2432.1	1403.0	636.7
80°	59.2	59.2	77.7	170.3	444.2	784.8	666.3	973.6	936.6	285.0	148.1
82.5°	22.2	22.2	37.0	99.9	248.0	658.9	596.0	514.6	477.5	88.8	92.5
85°	3.7	3.7	18.5	55.5	111.1	318.4	492.3	407.2	362.8	40.7	51.8
87.5°	0.0	0.0	7.4	14.8	33.3	151.8	248.0	244.3	211.0	18.5	25.9
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: P534627

CATALOG NUMBER: GALN-SA9A-AMB-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7	1691.7
2.5°	1676.9	1665.8	1639.9	1625.1	1588.1	1558.5	1532.6	1491.8	1465.9	1477.0	1484.4
5°	1665.8	1643.6	1591.8	1514.0	1436.3	1347.5	1277.1	1195.7	1173.5	1151.3	1169.8
7.5°	1643.6	1606.6	1506.6	1377.1	1229.0	1106.8	981.0	881.0	814.4	766.3	758.9
10°	1625.1	1573.3	1406.7	1229.0	1014.3	825.5	636.7	503.4	407.2	370.2	355.4
12.5°	1606.6	1543.7	1317.8	1058.7	784.8	518.3	322.1	222.1	185.1	181.4	177.7
15°	1617.7	1525.1	1229.0	895.8	551.6	281.3	177.7	159.2	159.2	159.2	155.5
17.5°	1632.5	1495.5	1147.6	736.7	322.1	166.6	151.8	144.4	140.7	140.7	140.7
20°	1643.6	1465.9	1047.6	551.6	185.1	144.4	137.0	129.6	122.2	122.2	122.2
22.5°	1632.5	1447.4	932.9	370.2	144.4	125.9	118.5	111.1	107.4	103.7	99.9
25°	1639.9	1414.1	821.8	229.5	129.6	114.8	103.7	92.5	85.1	81.4	81.4
27.5°	1628.8	1380.8	699.6	155.5	114.8	99.9	85.1	77.7	66.6	62.9	62.9
30°	1614.0	1347.5	573.8	125.9	103.7	88.8	74.0	62.9	55.5	51.8	51.8
32.5°	1599.2	1291.9	444.2	114.8	96.2	77.7	62.9	51.8	48.1	44.4	44.4
35°	1562.2	1232.7	322.1	107.4	85.1	66.6	51.8	44.4	40.7	37.0	37.0
37.5°	1547.4	1192.0	222.1	96.2	77.7	59.2	44.4	37.0	33.3	33.3	33.3
40°	1554.8	1129.1	155.5	88.8	66.6	51.8	40.7	33.3	29.6	25.9	25.9
42.5°	1577.0	1110.5	125.9	85.1	59.2	44.4	33.3	25.9	22.2	22.2	22.2
45°	1651.0	1114.2	114.8	77.7	51.8	37.0	29.6	22.2	18.5	18.5	18.5
47.5°	1784.3	1143.9	107.4	70.3	44.4	33.3	25.9	18.5	14.8	14.8	14.8
50°	1976.8	1217.9	103.7	62.9	40.7	29.6	22.2	14.8	11.1	11.1	11.1
52.5°	2280.3	1347.5	96.2	55.5	33.3	25.9	14.8	11.1	11.1	7.4	7.4
55°	2687.5	1532.6	88.8	48.1	29.6	18.5	14.8	11.1	7.4	7.4	7.4
57.5°	3135.4	1751.0	77.7	40.7	25.9	18.5	11.1	7.4	7.4	3.7	3.7
60°	3661.1	2080.4	66.6	33.3	22.2	14.8	11.1	7.4	3.7	3.7	3.7
62.5°	4316.3	2491.3	55.5	29.6	18.5	11.1	7.4	3.7	3.7	3.7	3.7
65°	5238.1	2972.6	44.4	22.2	14.8	7.4	7.4	3.7	3.7	0.0	0.0
67.5°	5856.3	3031.8	40.7	22.2	11.1	7.4	7.4	3.7	0.0	0.0	0.0
70°	5293.6	2424.7	33.3	18.5	11.1	7.4	7.4	3.7	0.0	0.0	0.0
72.5°	3768.5	1395.6	29.6	14.8	11.1	7.4	7.4	3.7	3.7	0.0	0.0
75°	1662.1	392.4	29.6	14.8	11.1	11.1	11.1	7.4	3.7	0.0	0.0
77.5°	399.8	122.2	25.9	14.8	14.8	14.8	14.8	7.4	3.7	0.0	0.0
80°	99.9	44.4	22.2	14.8	14.8	14.8	14.8	7.4	3.7	3.7	3.7
82.5°	74.0	33.3	22.2	18.5	14.8	11.1	11.1	7.4	3.7	3.7	3.7
85°	44.4	14.8	7.4	7.4	7.4	7.4	7.4	3.7	3.7	3.7	3.7
87.5°	25.9	7.4	7.4	3.7	3.7	3.7	0.0	0.0	0.0	3.7	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)